Knowledge Organisers



Year 9

Self Quizzing: How to study independently using Knowledge

Organisers:

on your KO. Most people find that about 5 is a sensible amount of topics to work with. Before you begin, use a blank piece of paper to write out a list of up to 9 things that are



These are the things you are going to focus on moving to your Long Term memory. You should section of your KO, like this: decide on this by choosing a



Your list should be names, headings or titles of the things on the KO that you are remembering, like this:

The Victorian Era:	Social class:	Social problems:	Church and religion:

begin to work at remembering by using the Read, Cover, Write, (RCWCC) strategy that you have been trained to use. going to 2) Now, you are Correct Check,

READ

and nighlight, and mentally verbalise (this means that you should say them over and over Method 1: Find the most important bits, again in your head).

(this means that you should say them over things, highlight, and mentally verbalise Method 2: Make links between similar over again in your head).

COVER

Cover up your KO, and keep mentally verbalising (saying it to yourself inside your heg

WRITE

Write as many things as you can remember in your table.

CHECK

Check how did by comparing your work to that section of your KO. Read very slowly and carefully, looking at the vocabulary that you used. How similar is it to what is on there? Remember – there can be subtle differences between words that can affect meaning.

CORRECT

Correcting your work is really important, but people often skip this bit. If you don't do it properly, the chances of it moving to your Long Term Memory are much less.

Remember that it is important to be really strict with yourself; if you have not quite been accurate, you must edit your work.

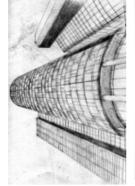


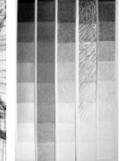
people were becor aware of the need improve the condit which the poor for themselves. Dicker



KNOWLEDGE ORGANISER - BASIC SKILLS YEAR 9

drawing something real observational drawing: observational drawing: drawing something Secondary source Recording from from a picture. Primary source in front of you. Observation







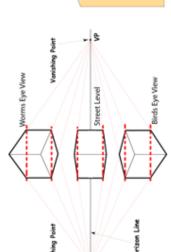


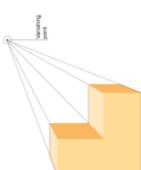
Pencils come in different pencils are B, 2B and 4B. H = hard, B = black (soft) grades. The softer the Pencil, the darker the In Art, the most useful grade it is likely to be an HB If your pencil has no tone.

(hard black in the

of the scale) middle

Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.
Shade	The mixture of a colour with black, which increases darkness.
Tint	The mixture of a colour with white, which increases lightness.
Mark making	Different lines, patterns, and textures we create in a piece of art. It applies to any art material on any surface, not only paint on canvas or pencil on paper.
Composition	The position and layout of shapes on the paper.
One point perspective	A drawing has one point perspective when it contains only one vanishing point on the horizon line. This type of perspective is typically used for images of roads, railway tracks, hallways, or buildings viewed so that the front is directly facing the viewer.
Two point perspective	A drawing has two vanishing points placed on the horizon line. This type of perspective is typically used for images of streets so you can see different angles.
Vanishing point	A point on the horizon line where the parallel lines converge.
Horizon line	The line that separates the sky from the land.
Bird's eye view	An elevated view of an object from above, with a perspective as though the observer were a bird.
Worm's eye view	A view of an object from below, as though the observer were a worm - the opposite of a bird's-eye view.









SKILLS BASIC ORGANISER KNOWLEDGE 0 YEAR

Annotation

Independence Artistic

A note by way of explanation or comment added to a text or diagram.

how that piece of art work has been created. Identifying what Be able to comment on a piece of artwork and understand materials have been used and the stages of creation.









Andy Peutherer

- Scottish artist
- create his work. techniques to Uses street art and graphic
- younger allowed skateboarding in different angles and viewpoints of architecture. when he was urban areas appreciate His love of him to

Marc Allante

- Has lived in Hong Kong (China) **Born in Hong**
- London his work has been inspired by merging both (Australia) and Kong, Sydney eastern and influences. western

predominantly

architect.

He was

natural forms.

Barcelona

inspired by

his signature style Drips are part of

John Piper

Born: 13th

Born: 25th June

Antoni Gaudi

- December 1903. Died: 28th June 1992
- painting and printmaking Famous for

Sagrada Familia.

He was a Spanish

Died: 10th June 1926 - Buried in

1852, Spain

what he is most Was an official architecture is bombed and war artist in famous for. damaged WW2. The

piece of artwork you When designing a must:

- (drawings/photogr aphs) as starting Use primary research points.
- Use artists' styles to Be creative with inspire you.
 - composition.
- piece before you Iny to test every section of your create it.





What makes a successful artist research

work (buildings).

best place to visit to see his

(Spain) is the

You must include: page?

- Artist's name (title)
- Imagery of the artist's work
- Annotation and your own opinion (facts about the artist as well as analysing the artist's work)
- Your own drawings or 'mini studies' of the artist's work.
 - Consider presentation of your page. Try to make your page reflect the artist's style (through use of colour or even media you choose to use).

Wh	What are the Core Technical Principles?						
1	New & Emerging Technologies	These include information technology, educational technology, nanotechnology, biotechnology, robotics, artificial intelligence.					
2	Energy generation and Storage	Fossil fuels, nuclear power, renewable energy (hydroelectricity, solar power, wind power, wave power etc), batteries.					
3	Developments in New Materials	Smart materials (eg Shape Memory Alloys), nanomaterials (eg graphene), metal foams, composites (eg GRP & CFRP).					
4	Systems Approach to Designing	Inputs (eg sensors, switches), processes (eg timers, microcontrollers, counters) and outputs (eg buzzers, led's, lcd displays etc).					
5	Mechanical Devices	Changing type and direction of motion using levers, linkages, gear trains, pulleys & belts, cams etc					
6	Characteristics and Working Properties of Materials	Paper & card, wood (hard, soft, manufactured board) metals & alloys (ferrous & non-ferrous), polymers/plastics (thermoplastics & thermosets), composites (concrete, fibreglass), textiles etc.					



Electric cars are becoming more common as batteries have become smaller and lighter yet more powerful. Advances in robotics and artificial intelligence (AI) mean that driverless vehicles are no longer a distant dream.

More and more energy is being generated from renewables sources like the wind, the sun, rivers and the oceans.





Modern composites such as carbon fibre are extremely strong and very lightweight. They are increasingly being used to make products traditionally made from steel and aluminium.



Nanomaterials are so thin (just an atom or so thick) that they are considered two dimensional. They exhibit a range of unusual properties due to their huge surface area.

There is now more computer power in an average smartphone than there was in the first mission to the moon.



GCSE Design & Technology/KO/Core Technical Principles

1 New & Emerging Technologies	and their effects on;				
Industry	Design & organisation of workplace, tools & equipment, automation, robotics				
Enterprise	Crowd funding, virtual marketing & retailing, co- operatives, fair trade.				
Sustainability	Finite & non-finite resources, waste disposal etc.				
People	Changing job roles and the way we work, technology push & market pull.				
Culture	Respect for people of other faiths & beliefs, changes in fashion trends etc.				
Society	Designing products which have no negative impact on others, design for the elderly & disabled.				
Environment	Continuous improvement, efficient working, pollution, global warming.				
Production Techniques & Systems	Automation (CAD/CAM, robotics, AI), flexible & lean manufacturing systems, just in time (JIT)				
How the critical evaluation of new and emerging technologies informs design decisions	Planned obsolescence, design for maintenance, ethics, environmental concerns.				





Today, particularly in the developed world, more people are likely to work in office blocks than in factories





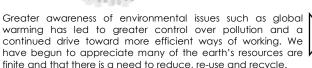
Robots have largely replaced humans in the manufacturing industry. With the advance of artificial intelligence (AI) robots can almost think like humans too!



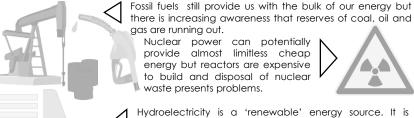
Computer aided design and computer aided manufacturing (CADCAM) has been a major factor in the automation of the workplace. CADCAM allows products to be designed and modelled in 3D before final manufacture.

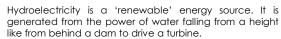


Today's designers are designing for increasingly diverse societies made up of different nationalities, cultures, beliefs, ages and abilities.

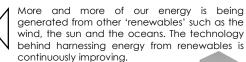


2 Energy Generatio	on & Storage				
Fossil Fuels	How is electricity generated from coal, oil, gas? Fossil fuels burnt heat water, steam drives turbine which produces electricity, arguments for & against				
Nuclear Power	How is electricity generated from nuclear power, nuclear reactors generate heat to heat water, steam drives turbines which produce electricity, arguments for & against				
Hydroelectricity	How is hydroelectricity generated? Harnessing power of fast flowing rivers or potential energy stored in mountain lakes, arguments for & against				
Solar Power How is electricity generated from solar energy? Direct solar pusing photovoltaic (PV) panels to convert sunlight into electricity indirect using concentrated solar power to heat water, argunfor & against					
Wind Energy	How is electricity generated from wind energy? Wind driven turbines, wind farms, arguments for & against				
Wave Energy	How is electricity generated from wave energy? Waves movement forces air through turbines which then produce electricity, arguments for & against				
Tide Energy	How is electricity generated from tides? Ebb and flow of tide harnessed in similar way to hydro-electricity, seawater passes through turbines which then produce electricity, arguments for & against				
Energy Storage	Kinetic pumped water systems, batteries (eg alkaline, zinc carbon,				





lithium, rechargeable), choosing appropriate energy sources



One of the difficulties associated with renewables is how to store surplus energy for use later. Recent advances in 'battery technology' have largely addressed this issue and batteries continue to get better, last longer and for less money.



3 Developme	nts in Modern Materials				
Smart Materials	Materials that can have one or more properties changed by external stimuli such as stress/pressure, temperature, light. These include; Shape Memory Alloys (SMA's), thermochromic & photochromic pigments, LCD's etc				
Nanomaterials	Materials with at least one dimension less than 100 nanometres, where 1 nanometre is one millionth of a millimetre. Nanomaterials are just one atom or molecule thick and usually found as surface coatings applied to other materials. These include graphene, carbon nanotubes etc				
Metal Foams	Metals with gas introduced in the molten stage then allowed to cool. These are strong, stiff yet extremely lightweight. Aluminium, copper and titanium are 'foamed' in this way. Titanium foam is used to replace bone.				
Modern Composites	Glass Reinforced Plastic (GRP) and Carbon Fibre Reinforced Plastic (CFRP) use woven material (typically glass or carbon strands) as a reinforcement with polyester or epoxy resin matrix				
Technical Textiles	Breathable waterproof fabrics, flame retardant/fire & heat resistant, conductive, synthetic & semi-synthetic (blended)				
Properties & Characteristics	Classify a range of materials by type and properties. Extract information about materials from technical specification, select suitable materials. Properties; tensile & compressive strength, stiffness, hardness, ductility, conductive, semi-conductive, shape memory, heat resistant etc				

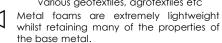
Modern composites are used extensively in today's aircraft like this Airbus A380. They are even used in high stress areas and for structural components traditionally made from aluminium alloys.

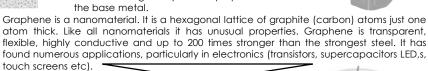




televisions.

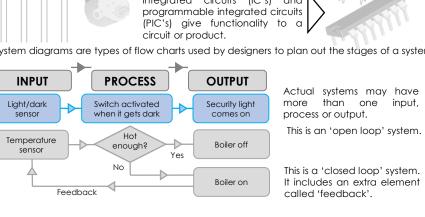
Technical textiles include breathable waterproof fabrics such as Goretex, flame resistant fabrics like Nomex as well as various geotextiles, agrotextiles etc.



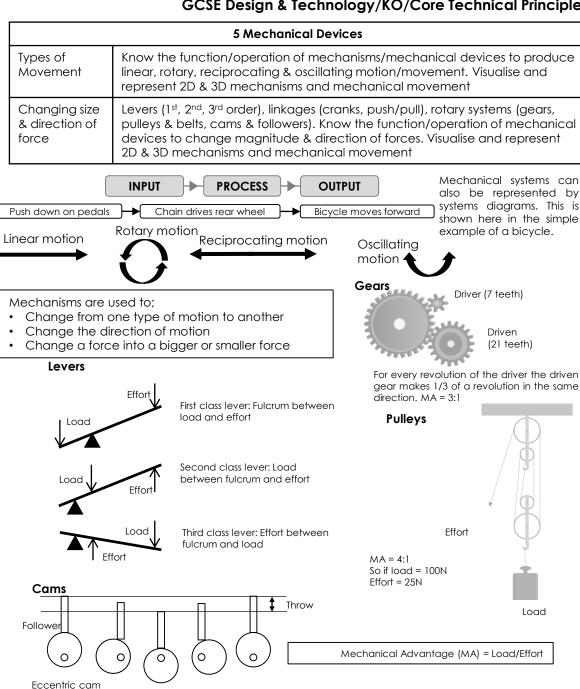




4 Systems Approach to Designing Inputs Light sensors eg) light dependent resistors (LDR's), photo diodes, temperature sensitive resistors (thermistors), infra red beam, push switch, tilt switch, reed switch, micro-switch etc. Name a range of input components, understand how they interact & operate. Select by extracting information from technical specification Microcontrollers, programmable integrated circuits (PIC's), **Processes** timers, amplifiers, counters and other 'decision making' components which process signals from inputs and send new signals to outputs. These provide functionality to products or parts of products. Name a range of process components, understand how they interact & operate. Select by extracting information from technical specification Outputs Light bulbs, LED's, buzzers, bells, speakers, LCD displays, motors etc. Outputs provide a visual, audible or other response to given inputs. Name a range of output components, understand how they interact & operate. Select components by extracting information from technical specification A light dependent resistor (LDR) is an analogue sensor whose resistance changes in response to a change in the level of light. A thermistor is an analogue sensor whose resistance changes with temperature. A tactile switch is a diaital Analogue components sensor which detects a light recognise an infinite number of touch values within a particular range whereas digital components Output devices include recognise only two values, 'high' lamps, speakers, and 'low' (or 'on' and 'off'). buzzers, light emitting diodes (LED's) and motors. Microcontrollers, logic gates, integrated circuits (IC's) and Γ programmable integrated circuits (PIC's) give functionality to a circuit or product. System diagrams are types of flow charts used by designers to plan out the stages of a system. **INPUT PROCESS** OUTPUT Actual systems may have more than one input, Liaht/dark Switch activated Security light



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6 Materials & Pro	perties
Paper & Card	Papers & its properties/characteristics: Bleedproof, layout, cartridge, grid, layout, tracing, inkjet paper etc. Card & it's properties/characteristics: Corrugated cardboard, greyboard, duplex board, foamboard, solid white board, foil lined card, inkjet card. Graded by weight in grammes per square metre (gsm), surface texture.
Natural & Manufactured Timber	Hardwoods & their properties/characteristics: eg) Ash, beech, mahogany, oak, balsa. Softwoods & their properties/characteristics: eg) Larch, pine, spruce. Manufactured boards & their properties/characteristics: eg) Plywood, medium density fibreboard (MDF), chipboard, blockboard, oriented splinter board (OSB) etc.
Metals & Alloys	Ferrous metals & their properties/characteristics: eg) Cast iron, low carbon steel, high carbon steel. Non-ferrous metals & their properties/characteristics: eg) Aluminium, copper, tin, zinc. Alloys & their properties/characteristics: eg) Brass, bronze, stainless steel, high speed steel, solder.
Polymers (Plastics)	Thermoforming plastics (thermoplastics) & their properties/characteristics: eg) Acrylic (PMMA), polystyrene (PS), high impact polystyrene (HIPS), high density polythene (HDPE), polypropylene (PP), polyvinyl chloride (PVC), polyethylene terephthalate (PET). Thermosetting plastics (thermosets) & their properties/characteristics: eg) Epoxy resin, polyester resin, melamine formaldehyde, urea formaldehyde.
Textiles	Natural fibres & their properties/characteristics: eg) cotton, wool, silk. Synthetic fibres & their properties/characteristics: eg) Polyester, polyamide (nylon), elastane (lycra). Blended/mixed fibres & their properties/characteristics: eg) cotton and polyester (polycotton). Fabrics & their properties/characteristics: eg) Woven (plain weave), non-woven (felt, bonded fabrics), knitted fabrics
Properties	Physical properties: eg) Density, absorbency, fusibility, conductivity. Durability. Working properties: eg) Strength (tensile, compressive), hardness, stiffness, ductility, malleability, toughness, machinability.

Hardwoods are generally heavier, harder, stronger & more durable than softwoods with the notable exception of balsa, which is softer and lighter than most softwoods.

Cotton is often blended with polyester to make it harder

wearing and quicker to dry.

Thermoplastics can be heated and formed over and over again whereas thermosets can not.



Manufactured board has a more uniform, homogenous nature than natural wood and can be produced in larger pieces.

> Most ferrous metals are magnetic while most non-ferrous metals are not. This is useful when it comes to recycling.



Most plastics are still made from fossil fuels and are not biodegradable. They therefore need to be re-used or recycled.



Softwoods

Coniferous trees with needle like leaves and

Broad leaved trees



Before we can use it we have to season timber to reduce the water content. If we don't it may warp, twist or bow. that are usually slower growing Seasoning

HARDWOODS

Oak	Strong, durable attractive	Garden furniture,
	grain	gateposts
	Expensive	
Mahogany	A stable timber. Polishes	High quality
	well. Strong and fairly	furniture
	durable	
Beech	Tough and hard	Work benches,
	Not suitable outdoors	toys
Balsa	Very lightweight and easy	Model making
	to cut	
	Very soft	
elutong	Light colour and straight	Model making and
	grain	moulds for casting
Birch	Straight grain, easy to	Used as a veneer
	work	for plywood
	Open to insect attack	
Ash	Strong, tough, flexible	Tool handles, sport
	Used as a veneer	equipment

Properties of timber

Hardness	Timber is generally softer than other resistant materials
Toughness	Toughness Timber is generally tough. When hit it wident but not easily break
Durability	Properly seasoned timber lasts a long time. Some timber has natural oils
Elasticity	Timber is not generally elastic and will splinter when thin
Strength	Timber is stronger when pulled. Some timbers are denser so withstand crushing

Stock forms

SE—Planed square edge AR—Planed all round Mouldings







Sources of timber

softwoods Cold climate: Alpine,

Temperate climate: European, soft & temperate hardwood Tropical climate: Tropical hardwood

SOFTWOODS

		1
Larch	Tough, durable and resists	Cladding, yachts
	water	
Cedar	Very durable and easy to work	Fences, sheds
	Contains natural oils	
Pine	Lightweight and easy to work	House construction,
	but splinters	indoor furniture

Manufactured boards

7	Laminate floors,	furniture panels			Flat pack, curved	furniture, building	construction	Kitchen and	bedroom furniture.	Shelving
	Veneers of timber glued together Laminate floors,	with the grain running at	90 degrees to the last	Very structurally strong.	Wood fibres compressed with	glue to give large, smooth, flat	sheets	Wood chippings compressed	with glue into sheets	Uses waste material
	Plywood				MDF			Chipboard		

Questions

- State 2 stock forms of timber
- Give 2 reasons why oak is suitable for outdoor use
- l want to make a rounders bat, what timber could I use? Why?
 - Discuss the advantages and disadvantages of making a log store from pine

Find the meaning of: Veneer, grain, evergreen, warp, deciduous. Also revise the meanings of: Hardness, toughness, durability, elasticity, tensile and compressive strength.

PLASTICS

⊙ ⊙

WOODS

WOODS

Manmade Boards

Softwoods

hermoplastics the heated and reshaped many time Properties Properties mide (Nylon) - Tough, fairly hard, st	Dericating resist
Thermo Can be heated an Name Polyamide (Nylon)	

individual plies / veneers o wood. The plies are glued together with synthetic res

	luericating, resists wear, good resistance to chemicals and machines	tools, currain rail fittings and clothing
Polymethyl methacrylate (Acrylic)	"Sliff, hard but scratches easily, durable, brittle in small sections, good electrical insulator, machines and polishes well	Signs, aircraft canopies and windows, covers for car lights, wash basins and baths
figh impact nolystyrene (HIPS)	"Light but hard plastic "Available in sheets but softens at high temperatures	Common for school projects which include products outer casings or packaging.
Polypropylene (pp.)	"Light plastic, hard but can scratch easily, tough, resistance to chemicals, resists work fatigue	Used for medical and laboratory equipment, seating, rope, some kitchen equipment
Polythene: - Iow density (LOPE)	•Tough, resistance to chemicals, flexible, fairly soft, good electrical insulator	•Plastic bottles, toys, packaging film and bags
Polythene: - high density (HDPE)	•Stiff, hard, able to be sterilised	•Plastic bottles. tubing and milk crate
JAC	*Stiff and hard wearing	•Air and water pipes and medical devices

Hardwood

Thermoset Plastics

*White to pinkish brown colour *Close grained, hard, tough but o warps easily

Epoxy resin "Bood electrical insulator, hard, britle unless reminored, resists chemicals	Name	Properties	L
R) hard, brittle unless reinforced, resists cher	EBOXV PESIE	第.	
	(Epoxide, ER)	brittle unless irced, resists cher	_ 0 ,

•A quality board, relatively cheap. Composed of fine wood is dust and resin pressed into a

PAPER & CARDS Paper Paper reject and bickness is measured in gramm per square more (gam). By speer mandestrands from rescited gaper sources. Train paper made from 100% wood gable and confinent no respiced material. Market legic of paper and board have different stags, as shown in a staged on the stage of the paper and board have different stags, as shown in a staged on the stage and board have different stags, as shown in	Description and Usage	Lightweight, inexpensive, thin white paper Used for sketches and initial ideas, takes colour well	*Thin and translucent, expensive *Used for making manual copies of drawings	•Quality white paper, available in multiple weights •Can be used for simple model work	*Smooth and hard, medium cost Used for water or spirit based felt tip pens	Available in multiple colours and thicknesses Used to mount finished work and to apply colour surfaces to models	•Printed square and isometric grids in multiple sizes,
Paper Paper Paper Paper is mother (gam). Most paper is made if maderial material.	Type	Layout Paper	Tracing Paper	Cartridge Paper	Bleedproof Paper	Coloured Paper	Said Diese

Card & Board

Type	Description and Usage
Board	- Thickness (between 300 and 650 microns) - Range of colours - Use to create models - Thickness depends on usage
Corrugated Cand	 Strong and Lightweight Used for packaging protection Available in different thicknesses
Mounting Board	*High quality thick card •Coloured surfaces •Used for final models and mounting work
Spiral Wound Tubing	*Strong •30 printable surface •Used for Packaging
Duplex	*Foam based board *Multiple finishes available *Used for food packaging

GCSE Design & Technology/KO/Core Technical Principles

•Used for elect fittings and adhesives •Board and tabl top games and silliand ball

•Hard and brittle

•Used for car bodies and boat

Topic: Factors affecting food choice

Religious Beliefs - A number of religions are associated with vegetarianism.

Nutritional Concerns - Many believe that a vegetarian diet is healthier than one that includes meat, and many studies have confirmed the benefits of vegetarianism.

Food Safety - Many food safety scares have been publicized over the past few decades, and the majority of these have involved meat.

Animal Rights Concerns -Animal rights is a primary concern of many veaetarians.

Unwanted Food Additives -Factory farms often dose their poultry and livestock with antibiotics and hormones.

Environmental Concerns -The production of meat and animal products often has adverse effects on the environment.

Concern for Labourers -Labour conditions in the meat industry often meet with scrutiny. Human rights are often disregarded, and worker safety often falls by the wayside.

Economic Concerns - Some believe that supporting the meat industry promotes world hunger. The amount of land required to raise one heard of cattle, for example, could produce anough grain ar vocatables. enough grain or vegetables to feed many times the number of people that the animal would.

Medical Conditions - People with certain medical conditions may benefit from a vegetarian diet. Prescription of such a diet is particularly common from doctors of alternative medicine.

Disease Scares-The Avian flu, hoof and mouth disease, and mad cow disease are examples of some of the disease scares that have been associated with the consumption of meat.

Religious special diets

Many religions include guidance on what is appropriate to eat in order to demonstrate faith. Below is a summary of what the main world religions advocate in people choose a form of vegetarian diet. terms of what their followers should or should not be consuming.

1 1	-	44	-		0	DY
Kosher	х	Kosher	X	Kosher	Not with meat	
х	х		some	✓	1	
х	х			?		х
Halal	х	Halal	х			х
х	х		no fish over 12"			х
х	х		х	?		
	X X Halal	X X X X Halal X X	X X Restr Avo	Kosher X Kosher X X X some X X Restricted/Avoided Halal X Halal X X X no fish over 12"	Kosher	Kosher X Kosher X Kosher meat X X some ✓ ✓ X X Restricted/ Avoided ? Image: Avoided Avoided ? Halal X Halal X X Image: Avoided A

In addition to this some religions advocate fasting at certain times of the vear.

For example, fasting is obligatory for every Muslim one month in the year, during Ramadhan. Each day, the fast begins at sun-rise and ends at sunset. During this time Muslims are asked to remember those who are less fortunate than themselves as well as bringing them closer to God. This also helps to give the digestive system a break. In contrast, when Catholics fast they restrict their meals to once a day. They may also abstain from one or more types of food such as during the period of Lent.

	Relig	iou	s-ba	ased	Di	ets	
	1	1	Y _M	-	•		DY
Protestants			Fe	w Restrictio	ns		
Roman Catholicism	Restricted	l on cert	ain days				
Eastern Orthodox	Restrictions			Restrictions			
Jainism	x	х	x	х	x		х
Mormonism							х
Baha'i		so	ome are	vegetarians			х

Ethical special diets

Below is a summary of the different types of vegetarian diets people choose to follow and some of the main reasons why

Type of vegetarian	Animal foods excluded	Animal foods included
Lacto-ovo vegetarian	Meat, fish/ seafood, poultry	Dairy, eggs
Lacto vegetarian	Meat, fish/seafood, poultry, eggs	Dairy
Ovo vegetarian	Meat, fish/seafood, poultry, dairy	Eggs
Pesco/pesca vegetarian	Meat, poultry	Fish/seafood, eggs, dairy
Pollo vegetarian	Meat, fish/seafood	Poultry, eggs, dairy
Semi vegetarian (Flexitarian)	Meat, fish/seafood, and poultry most of the time	Dairy, eggs; on occasion meat fish/seafood, poultry
Vegan	Meat, fish/seafood, poultry, eggs, dairy, honey, etc.	None
Fruitarian	Meat, fish/seafood, poultry, eggs, dairy	None; typically unprocessed and uncooked foods only
Medical special	<u>diets</u>	



Peer Pressure

Peers are friends or people who influence your behaviour and choices directly or indirectly.

Food scares

The response to a food incident (real or perceived) that causes a sudden disruption to the food supply chain and to food consumption patterns.

Lifestyle

How active someone is on a daily basis affects their nutrient requirements.

Food trends

Food trends are widespread changes in food preferences.

Your skills

Some dishes require a range of techniques to prepare and cook; some people may avoid certain foods at home because they believe they cannot make it themselves.

Availability

This can refer to seasonal foods. It can also refer to meat which is at its best at certain times of year.

Some people have to avoid certain foods due to allergies, intolerances or medical conditional they have. Medical conditions are not directly caused by one food but a healthy diet can improve the condition.

Angemia: a deficiency of red cells in the blood. resulting in paleness and fatigue. Need to include foods rich in iron and vitamin C which the body needs to utilise iron.

Crohn's disease: a long-term condition; causes inflammation of the lining of the digestive system. Foods to avoid: alcohol and carbonated beverages; butter, margarine, oils; coffee, tea, chocolate; fatty foods and dairy products.

Diabetes: A condition where the body can't produce insulin which processes sugar. Foods to avoid include: sugar, pasta, white bread.

Gout: a disease in which defective metabolism of uric acid causes arthritis and episodes of acute pain. Foods to avoid include: red meat and offal, shellfish, sugary beverages, excessive alcohol.

High cholesterol: cholesterol is a fatty substance found in your blood. If you have too much cholesterol in your blood, it can increase your risk of heart disease. Foods to avoid: processed vegetable oils, crisps and other packaged foods, sugary treats.

Irritable bowel syndrome: a common disorder that affects the large intestine. Symptoms include cramping, abdominal pain, bloating, gas, and diarrhoea or constipation. Foods to avoid: too much fibre, chocolate, alcohol, caffeine or fructose, carbonated drinks, fried and fatty foods.

Food allergies

90% food related allergic reactions are caused by these 8 foods:

- Peanuts
- Tree nuts Milk
- Egg
- Fish
- Shellfish Soy
- Wheat



Food intolerances

Common food alleraens

- Dairy products, including milk, cheese and voahurt.
- Chocolate.
- Eggs, particularly egg white.
- Flavour enhancers such as MSG (monosodium glutamate)
- Food addifives.
- Strawberries, citrus fruits and tomatoes.
- Wine, particularly red wine.



Topic: Food waste

As a country we generate a large amount of food wastage. According to the 'Love Food Hate Waste' website we throw away 7 million tonnes of food and drink from our homes every year in the UK, and more than half of this is food and drink we could have eaten.

The main types of foods that are thrown away as waste include fresh vegetables and salad, fresh fruit, bread, cakes, prepared foods such as pasta and rice, as well as meatbased meals and takeaways. On many occasions whole, unopened packs of these items are disposed of.

There are many reasons why we waste so much food. These include:

- The food has gone past its date for
- The food has an unpleasant smell, look or taste.
- The food has gone mouldy.
- Too much food was cooked leaving
- Food has been left on the plate this could be due to large portion size, dislike of food, or not feeling hungry.

Effect on the environment

To try to reduce the impact on the environment that food wastage can have, many areas of the UK have, as part of their recycling schemes, introduced food waste bins. Households are encouraged to place waste or leftover foods into the bins; the waste is then turned into compost or used to help generate energy.

When food is thrown away through the normal rubbish disposal system, it is taken to a landfill site where it will rot and as a result produces methane, a greenhouse gas which is much more harmful than carbon dioxide.

Financial implications of waste

When we waste food, not only are we throwing away food that could have been eaten, we are also throwing away money. 'Love Food Hate Waste' states that wasting food costs the average household £470 a year, rising to £700 for a family with children (the equivalent of around £60 a month).

Costs are also incurred by local authorities as they have to employ people to remove household waste and take it to landfill sites.

Ways to reduce food waste

Composting

https://www.lovefoodhatewaste.com/

- Vegetable peelings Fruit peelings and waste

Leftovers

Eaten the next day

Recycling

- Leftover cake to make a trifle
- Leftover meat in a shepherd's pie
- Leftover chicken in a CUTTV

Only buying what you need Smaller size loaves of

Fridge packs for beans

Labelling
 Clearer Use By and Best
Before Dates

Packaging

- Re-closable packs Portion size guidelines on
- packaging Cook the right amount of food Use a recipe and weigh and measure accurately.

Leftover potato in fish cakes

Teabags

cărdboard Eggshells

Light

- Stale bread to make bread crumbs
 - Not purchasing Buy One Get One Free offers
 - Storage advice
 - Modified atmosphere packaging for
 - Plan vour portión sizes

Topic: How food is caught

Many different types of fish are caught for food. Some of these include:

- •Oilv fish mackerel, herring, salmon, trout tuna
- White fish cod, plaice, haddock, sole, halibut, sea bass
- Shellfish lobster, crab, prawns, mussels, scallops





Hook-and-line is a general term used for a range of fishing methods that employ short fishing lines with hooks in one form or another (as opposed to long-lines).

It includes hand-lines, hand-reels, powered reels, rod/pole-and-line, drop lines, and troll lines, all using bait or lures in various ways to attract target species.

Hand-lines use lines and baited hooks from a stationary or moving boat. Because hauling is slow, mechanised systems have been developed to allow more lines to be worked by a smaller crew. Hook and line fishing is more selective than other types of fishing in terms of species and size, and provides high quality fish. The method can be used on spawning fish as they normally only bite after completion of spawning. Lines are set for a relatively short time so that any unwanted species can often be returned live to the sea.

Method	Photo	Description	Used to catch	Advantages	Disadvantages
Trawling; • pelagic • otter • beam • pair		Uses nets to catch the fish	Anchovies Tuna Mackerel Cod Halibut	You can catch vast amounts of fish in one go.	The nets catch all kinds of fish, even the ones that they may not be trying to catch.
Purse-seining		Drawing a huge net around a school of fish	Tuna Herring Mackerel	This method can be highly specific, with little bycatch, when targeting adult schools of one species.	Some tuna purse seine fishers set their nets on floating debris or on manmade 'fish aggregating devices' (FADs). These attract a range of fish. When nets are set on these FADs, the resulting bycatch of juvenile tuna and other marine life is high.
Dredging		Towing metal cages across the shellfish beds	Scallops Oysters Clams Crabs	It is fast and efficient. You are able to keep up with demand. So fishermen can also make more money.	The dredges stir up and disturb all the bottom dwelling fishes' habitat. In other words, all the living plants that grow on the lakes floor would be damaged.
Farmed fish		There are many species of fish that are raised in fish farms, due to the reduced amount of wild fish available	Salmon Trout Cod Sea bass	Cost effective for both the farmer and the customer.	Fish are reared in large numbers in rivers or in tanks, enclosures, lakes or at sea in sea cages, which can be overcrowded due to the amount of fish they contain
Lobster and cra		The pots are placed on the seabed using ropes. Dead fish are used as bait, which encourages crabs and lobsters to enter the pot where they are trapped and collected.	• Shellfish	It is regarded as being more friendly, as any other fish caught in pots can be put back to sea.	Buoy lines are known to entangle marine mammals. A few fisheries have problems with young seals getting their heads stuck in traps and drowning, but there are measures available to prevent this.

Topic: How food is grown

Main crops grown in the UK:

- Wheat
- Barley
- Oats
- **Potatoes** Sugar beet
- Vegetables (carrots, cabbage runner beans etc)
- Oilseed rape
- Fruits (apples, pears, plumbs, damsons, strawberries, raspberries blackberries etc)

When growing crops such as wheat and barley, a number of points must be considered by the farmer.

- General weather conditions for the area
 Which crops will grow well together?
 The nutrients the crops will need
 The resources the farmer has, including

- natural resources (land air sunlight), tools and equipment as well as manpower.

The process of growing crops includes stages such as:

- Preparing the soil
- Sowing seeds or plant seedlings
- Watering
- Controlling crop pests, fertilising, as well as weed control
- harvestina



- •The UK doesn't produce all the food that is required to feed everybody due to population size and the climate, so some food is imported from other countries.
- E.g. some fruits and vegetables (exotic fruits) that are available in the supermarkets.

	Examples grown in the UK	Where it is grown	Additional information
Vegetables	Artichoke, asparagus, aubergine, beetroot, brussels sprouts, cabbage, carrots, new potatoes, turnips, watercress.	Many of the staple vegetables we eat are grown in fields on large farms.	Some farms specialise in producing large quantities of one vegetable (e.g. carrots) but provide a number of different varieties providing supplies for many supermarkets and shops
Soft fruits	Strawberries, raspberries, blackberries, gooseberries, blackcurrants, blueberries, red currents.	Most fruits are grown in polytunnels, a large polythene tunnel that is designed to protect the fruit from poor conditions. This will also guarantee a better quality product and reduce the need for pesticides.	Soft fruits are popular during the summer months – in season. Many fruits are grown by privately owned family-run farms Using this method of growing the fruits and other foods such as lettuces, cucumbers and peppers means the growing time for crops is extended.
Stone fruits	Peaches, apricots, plums, nectarines, cherries, damsons, greengages.	Many stoned fruits are grown in the UK. Kent, Worcestershire and Herefordshire are popular areas for growing fruit trees due to the correct combination of soil and sunlight.	Stone fruit will continue to ripen after it is picked. If you're not going to eat it within a few days, keep it chilled in the top of the fridge for up to five days otherwise keep it in a fruit bowl. For maximum flavour, eat stone fruit at room temperature.
Hard fruits	Apples, pears, mediar and quinces	Many hard fruits and stoned fruits are grown in the UK. They can be produced on a small, large or commercial scale.	Hard fruit such as apples can come in many different varieties and colours. Many apples are grown in orchards that are designed to make the most of the space available and maximise production.

Topic: How food is reared

Many animals reared on a large scale in factory farms to provide food to be sold in shops and supermarkets. Some animals are reared on smaller scale, in family-owned farms or one-animal specialist farms It is estimated that each year approximately one million animals are killed to provide food.

Some examples of animals reared for food include:

- Cows and calves
- Deer
- Chicken
- Pigs
- **Turkeys**
- Sheep and lambs
- **Ducks**
- Geese
- Deer



Which British beef is in season when?

Spring Summer Beef steaks Beef steaks Chicken **Burgers** Sausages Chicken Sprina lamb Ham Lamb Pork spare ribs Saltmarsh lamb Sausages Venison

Autumn Chicken Grouse Ham Pork Sausages Venison

Winter Chicken Gammon Goose Partridge Pheasant Sausages Turkey Venison Wild duck

What is reared food?

Reared food means an animal has been brought up for the purpose of providing food in one way or another. This could be through their meat or providing food sources such as eggs, milk or honey.

Topic: Organic farming

Pastoral farming

- •The aim is to maximise the number of animals that can be reared.
- Focuses on profit and efficiency rather than animal welfare
- Conditions can often be described as basic or poor
- Animals have minimal space to move in, they are not allowed to roam around and are fattened up
- on be through the use of drugs
 Many animals are reared in factory style farms and kept to produce foods. E.g. dairy cows will produce milk to be sold in supermarkets as well as producing milk to be used in the manufacturing of other dairy foods such as cheese.
- The cows live in large sheds, have limited space and limited or no access to sunshine or pasture.

Arable and horticultural farmina

- Intensive farming is a method used by many
- farmers to increase food production.
 •In intensive farming, fertilisers and pesticides are used to grow high-yield crops such as wheat.

Intensive farming

Action	Treatment	Explanation	Side effect
Remove competin g plants from the crop growing area	Herbicide spray	Allows more energy to be transferred to the crop	Reduces biodiversity. May have harmful effect on health.
Remove animals that feed on the crop	Pesticide spray	Prevents energy being transferred from the crop to consumers	Reduces biodiversity. May poison helpful organisms.
Keep animals indoors	'Battery' farming	Reduces energy transferred to environment so more energy available for growth	Increased risk of disease. Lower quality product. Ethical concerns.

The effects of insecticides Insecticides like **DDT** don't break down quickly. It's been responsible for a large reduction in bird numbers since intensive farming became widespread. DDT **accumulates** in food chains - as consumers eat large numbers of prey containing the insecticide. High levels of DDT have been found in birds of prey.

Pastoral farming

- The welfare of animals is always put first
- •There are organic standards to meet;
- Animals are to be free-range and must have access to fields
 The living conditions have to meet high welfare standards and the animals must have a certain amount of space
- •The diet has to be as natural as possible
- •The animals must only be given drugs to treat an illness
- •The animals cannot be given hormones which make them grow more guickly

Arable and horticultural farmina

- Food is produced and grown as naturally as it can be under strict standards.
- There is a strong emphasis on farmers ensuring the protection of wildlife and the environment.
 Artificial and chemical fertilisers are not used
- Farmers use organic matter to help develop a healthier, fertile soil, and encourage wildlife to help to control pests and disease
- Crop rotation is encouraged. A farmer will plant a crop in a field one year and the next year animals are allowed to graze on the same field, adding manure to the soil and improving the fertility. The next year the field could be left empty (fallow) allowing the soil to recover.

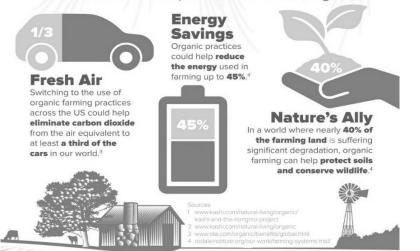
Organic farming techniques

Technique	Replaces	Advantage	Disadvantage
Manure	Fertiliser	Recycles waste, improves soil structure	Difficult to apply and cannot control mineral content
Crop rotation	Single crop	Reduces disease and damage to soil composition	Less productivity. Less efficient to grow different crops.
Weeding	Herbicides	Less environmental damage, or health risk	Labour intensive
Nitrogen-fixing plants	Nitrogen fertilisers	Cheaper, longer lasting	Reduces area available for growing crops if part of a crop rotation

Alternatives to pesticides

Biological control is an alternative to using pesticides. By releasing a natural predator into the crop growing area, the number of pests can be reduced. This can have unforeseen consequences as the numbers of different organisms in the food web are changed. There have been examples of the predator becoming a more serious pest than the original problem.

Here's how organic farming can benefit our planet and wellbeing:



Topic: Primary production

One of the first or primary stages of processing foods is to grow or rear a food so that it can be changed or transformed into a suitable state to either be eaten or used in the production of other products.

A **primary food** is not edible in its original state; it has to be changed or have some form of preparation before it can be eaten. An example would be a raw potato. Sometimes, the **primary processing** can be quite basic, for example peeling vegetables or washing salad leaves.

Other examples of primary foods could include:

wheatsugar beet

maizemilk

soya beans

Wheat is an example of a primary food. It is processed into flour, which is a secondary source of food. The stages of processing for wheat are shown in figure 9.6.

Cleaning and sorting of raw foods

Primary stages of processing and production also include the cleaning and sorting of the raw materials. This may be carried out to remove any unwanted debris, to clean off mud or dirt, or to remove any damaged goods. Figure 9.7 identifies stages of this process for potatoes.

Tigor 2, Primary processed

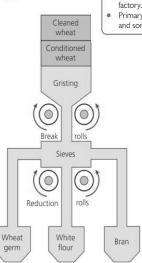


Figure 9.6 The stages of processing wheat

KEY POINTS: PRIMARY STAGES OF PROCESSING AND PRODUCTION

- Examples of primary foods include potatoes, wheat, maize, sugar beet and milk.
- Primary processing involves changing or transforming primary foods that are grown or reared into a suitable state to either be eaten or used in the production of other products.
- Once grown or reared, primary foods are transported from their point of origin (e.g. the field, farm or allotment) to a processing plant or factory.
- Primary stages of processing and production also include the cleaning and sorting of raw materials.

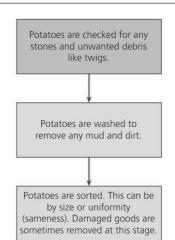


Figure 9.7 Potatoes being sorted

Topic: Secondary production

Secondary processing is when you change or convert the primary food into an ingredient which can then be used to make a food product.

Secondary processing can provide an opportunity to create a wide variety of foods. Flour processed from wheat is a secondary product; it has been changed or converted into an ingredient that can be used to make many different food products. An example product would be bread.

To end up as a finished final food product there would be many different stages of processing involved.

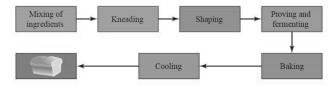


Figure 9.8 The process of making bread

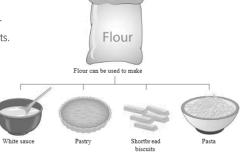


Figure 9.9 Flour can be used to make these products

There are many other examples of primary foods that are processed into secondary foods and then used to produce other products. Two examples of these are included in the table below.

Primary Food	Secondary process	The products after secondary processing
Milk Taken from the cow during the milking process	Cheese Made by separating the curds which is then pressed to remove water	Pizza Cheese is grated and sprinkled onto the pizza before baking Lasagne Cheese is grated and stirred into béchamel sauce.
Fruit Picked from trees/ bushes/ plants. Cleaned and could be sliced or cored.	Jam The fruit is boiled with sugar then sieved to remove seeds and skin	Swiss roll Jam is spread onto a whisked sponge then rolled up. Bake well tart Jam is spread on the pastry before the frangipani mixture is poured over the top and baked.

1912 - wante the wa	when the play was set. Just before WW1 (1914-18) and the sinking of the Titanic. JBP d to make sure audiences in 1945 recognised the problems of society in 1912 before are (class system, capitalism, sexism) and weren't tempted to go back to living like the wrote the play to highlight the dangers of the capitalist lifestyle.	Mr Birling	Arrogant and capitalist businessman who hates social equality and loves money. Sacks Eva from his factory when she asks for equal pay for women and threatens a strike.			
	, , , , , , , , , , , , , , , , , , , ,	Mrs Birling	Snobbish and cold-hearted capitalist who believes everyone is responsible for themselves. Doesn't help Eva when she comes to the charity for help.			
and le war efi promo	when the play was written and performed. After WW2, society changed for the The benefit system started to be introduced, and we had more equality for women so of a class divide because of different classes and different genders mixing in the sort. JBP supported and encouraged these changes and wanted to make sure he ted them in his play by making capitalists like the older Birlings appear ignorant and	Inspector	Priestley's mouthpiece (represents JBP's ideals), keen Socialist who fights for community responsibility and gets the Birlings to face up to what they have done.			
each a	sm – JBP was a keen Socialist. This meant that he wanted everyone to look after other rather than just caring about themselves. He was trying to promote this with the yemaking the Socialist characters like the Inspector much more respectable than the list ones.	Sheila	The daughter. Gets Eva sacked from the shop for smirking at her. Starts off as a spoilt rich girl but quickly changes her views, feels sorry for Eva Smith and starts to become Socialist as the play progresses. Is ashamed of her parents at the end.			
Capita about create	lism – JBP hated capitalists – those who thought that everyone should only care themselves and that making money was more important than human rights. He d Mr and Mrs Birling as capitalists, in order to make capitalism seem out-dated and Mr and Mrs B are portrayed in a negative way by JBP for this reason.	Eric	The son. Typical young man – drinks too much and has a one-night stand with Eva. Ends up getting her pregnant and steals from his dad to give Eva money. Regrets his actions and changes his ways. Ashamed of his parents at the end.			
Outdat men fo	thed ideas – In 1912, the social classes were segregated, women got paid less than or the same work, there was no benefit system or help with unemployment or housing. If was patriarchal (men ruled).	Gerald	Sheila's fiancé. Businessman who has capitalist ideals and is similar to Mr Birling politically. Shows some regret for his affair with Eva, but happy to act like nothing has happened when it suits him.			
Priestle saw, fir	y – was a broadcaster and playwright, he also served in the army in WW1. Priestley sthand, during WW1, men from different paths in life/ classes coming together and g for the common, greater good. He believed that this mantra should be taken		Why is the fact it is Morality Play significant?			
working propag beliefs	a in a proader context to make society more responsible for one another, when g for the BBC as a broadcaster during WW2, Priestley broadcast a series of short ganda radio shows which were credited for strengthening civilian morale. His left wing brought him into conflict with the government and influenced the birth of the welfare the programme was eventually cancelled by the BBC for being too critical of the	story which cone). In these type	s were first performed in the late middle ages. They are a type of allegory (a an be interpreted to reveal a hidden meaning, typically a moral or political as of plays, the main characters are met by supporting characters who are not not good and evil. They are used to prompt the main character to choose a			
	Plot	good life ove	r one of evil. The point of a morality play then, was to educate the audience			
ACT 1	The family are celebrating Sheila and Gerald's engagement. Birling makes speeches saying there will be no war, and the Titanic is unsinkable. An Inspector arrives and tells them Eva Smith has committed suicide. He gets Mr B to admit sacking her. He doesn't take blame. Inspector gets Sheila to admit getting her sacked for laughing. She feels guilty and ashamed of herself.	and get them to lead a better life so that they would determine a better fate for themselves in the "after-life". The supporting characters sometimes represented the Seven Deadly Sins. The Seven Deadly Sins were vices that people believed if you committed, could lead to the eternal damnation of your soul- i.e. you would go to hell forever. Morality plays were popular during the 15th and 16th-centuries. Historically they sought to teach the audience lessons that				
ACT 2	Inspector gets Gerald to admit having an affair with Eva Smith (now called Daisy Renton after a name change). Sheila is upset and questions her relationship with Gerald. Inspector gets Mrs B to admit not helping Eva when she came to Mrs B's charity for help when she became pregnant. Mrs B says it should be the father's responsibility. At the end of the Act, we realise that the father of Eva's baby was Eric.	focused on the characters we character reputer An Inspector	ne seven deadly sins: lust, gluttony, greed, sloth, wrath, envy and pride. Whilst tho committed these sins were punished, morality plays showed that if a pented then they could redeem themselves. Calls is a morality play because all of the Birlings and Gerald Croft commit			
ACT 3	Eric's involvement with Eva is revealed and a possible rape is hinted at, as he says he forced Eva. The Inspector gives his final speech about fire, blood and anguish. He is warning the family that if they don't start to take responsibility for others, they will live to regret it. Inspector then leaves. Gerald finds out that the Inspector wasn't a real inspector. Mr B rings to check and there is no Inspector Goole. Also, there is no dead girl! Mr and Mrs B (and Gerald) celebrate and act like nothing has happened. Sheila and Eric still feel guilty and can't go back to how they were before. Right at the end, the telephone rings and they are told that a girl has just committed suicide and an inspector is on his way over to ask some questions.	money, Sheila so on. Not all play structure about social i these charact	are similar to the seven deadly sins. Mr Birling is greedy because he wants more a is guilty of wrath and envy when she spitefully complains about Eva Smith and of the characters manage to redeem themselves. Priestley uses the morality to teach a 20th-century audience a series of lessons that relate to his beliefs responsibility, age, gender and class. The audience is invited to enjoy judging ters - they are also forced to question their own behaviour. Priestley would have eople watching the play would have left the theatre as better people.			
	Key	themes				
GENERATION The older and Eric)	ONAL DIFFERENCES generation (Mr and Mrs Birling) are a symbol of capitalism, so they do not change their ways and they become a symbol of Socialism as the play progresses. They accept blame and want to change; they	y are reluctant to ac y change throughou	ccept blame for their role in Eva's demise. The younger generation, on the other hand (Sheila the play, for the better.			
RESPONSIE	BHITY / HISTIGE					
The Inspect that they s	ctor, as Priestley's mouthpiece, is a symbol of Socialism – he wants everyone to look after each other c should take responsibility for others. Sheila and Eric realise this, but Mr and Mrs B do not.	and to view commu	nity as very important. He is sent to uncover the family's wrongdoings and to make them see			
GENDER IN	ctor, as Priestley's mouthpiece, is a symbol of Socialism – he wants everyone to look after each other a should take responsibility for others. Sheila and Eric realise this, but Mr and Mrs B do not.					

Characters

AN INSPECTOR CALLS

Context

Subject Terminology			Key Quotes
Dramatic Irony	When the audience knows something that the characters don't. Used usually to create tension or humour.	Inspector	(massively) Public men, Mr Birling, have responsibilities as well as privileges. (Act 2) (very deliberately) I think you did something terribly wrong – and that you're going to spend the rest of your life regretting it. (Act 2) Each of you helped to kill her. Remember that. Never forget it. (He looks from one to the other of them carefully.) But then I don't think you ever will. (Act 3)
Real Time	When the stage time is real time; this makes the play more naturalistic.	The Insp	One Eva Smith has gone – but there are millions and millions and millions of Eva Smiths and John Smiths still left with us, with their lives, their hopes and fears, their suffering and chance of happiness, all intertwined with our lives, and what we think and say and do. We don't live alone.
Tension	A dramatic device used to create a sense of suspense or to make the audience feel on edge; tension is often created through the use of cliff-hangers	_	We are members of one body. We are responsible for each other. And I tell you that the time will soon come when, if men will not learn that lesson, then they will be taught it in fire and bloody and anguish. Good night. (Act 3) But these girls aren't cheap labour- they're people. (Act 1)
Monologue	A speech of some length which is usually directed to a second person, without them interrupting,	Sheila	Oh – Gerald – you've got it – is it the one you wanted me to have? (Act 1) (bitterly) I suppose we're all nice people now.(Act 3) (flaring up) Well, he inspected us all right. And don't let's start dodging and pretending now. Between us we drove that girl to commit suicide. (Act 3)
Act	The division of a play	S	(tensely) I want to get out of this. It frightens me the way you talk. (Act 3) I tell you – whoever that Inspector was, it was anything but a joke. You knew it then. You began to learn something. And now you've stopped. You're ready to go on in the same old way. (Act
Interruptions	When characters cut into the speech of other characters and stop them from		3)
	speaking. A descriptive technique that names a	Mrs Birling	I didn't see any reason to believe that one story should be any truer than the other. Therefore, you're quite wrong to suppose I shall regret what I did. (Act 2) I'm sorry she should have come to such a horrible end. But I accept no blame for it at all. (Act 2)
Metaphor	person, thing or action as something else.		Still, I can't accept any responsibility. If we were all responsible for everything that happened to everybody we'd had anything to do with, it would be very awkward, wouldn't it? (Act 1)
Contrast	When two things are strikingly different to one another, serving to heighten their differences further.	r Birling	This girl. Eva Smith, was one of them, she'd had a lot to say – far too much – so she had to go. (Act 1) Rubbish! If you don't come down sharply on some of these people, they'd soon be asking for
Direct Address	When a speaker communicated directly to the person that they are speaking to usually by addressing them as 'you'.	Mr	the earth. (Act 1) (pointing to Eric and Sheila) Now look at the pair of them – the famous younger generation who know it all. And they can't even take a joke- (Act 3) Well, I don't blame you. But don't forget I'm ashamed of you as well – yes both of you. (Act 3)
Repetition	When a word or phrase is noticeably repeated throughout a sentence/ paragraph/ whole text	Eric	(bursting out) What's the use of talking about behaving sensibly. You're beginning to pretend now that nothing's really happened at all. And I can't see it like that. This girl's still dead, isn't she? Nobody's brought her to life, have they? (Act 3) The money's not the important thing. It's what happened to the girl and what we all did to her that matters. And I still feel the same about it, and that's why I don't feel like sitting down and
	When the opening of the story is mirrored, or is repeated at the end of the story –		having a nice cosy talk. (Act 3)
Cyclical structure	usually in order to convey a message about change (or lack thereof)		Why is the structure important - the Well-Made play?
Religious allusion	When a line references or reflects something to do with religion or the Bible	intri	rell-made play is a popular dramatic genre from the 19th-century. In a well-made play the plot is cate and complex and the action builds to a climax. This is often concerned with events that opened before the events of the play. A well-made play usually ends with a return to order but
Foreshadowing	When the writer hints that something is going to happen later in the play	Priestley moves away from this genre with the revelation at the end. An Inspector Calls is a well-r play because the events are all influenced by what happened to Eva Smith before the play take place This structure allows J B Priestley to manipulate the audience. They do not know what hap to Eva Smith and so each revelation about her treatment by the Birlings and Gerald Croft adds to drama. Each revelation is more shocking than the last and so Priestley cleverly builds to the climated An Inspector Calls there is a twist at the end of the plot - the characters are unsure if the Inspector existed at all. This gives the audience time to reflect on the events of the play. When it is revealed another inspector is on their way and the curtain falls, the audience would be stunned.	
Setting	The writer's choice of location/scenery for a play.		
Symbolism	When an object/character represents an idea that is much deeper and more significant.		

Poem	Content and Meaning
Ozymandias - 1819	A traveler tells the poet that two huge stone legs stand in the desert. Near them on the sand lies a damaged stone head. The face is distinguished by a frown and a sneer which the sculptor carved on the features. On the pedestal are inscribed the words "My name is Ozymandias, king of kings: / Look on my works, ye Mighty, and despair!" Around the huge fragments stretches the empty desert.
London -1792	The speaker wanders through the streets of London and comments on his observations. He sees despair in the faces of the people he meets and hears fears and repression in their voices. The woeful cry of the chimney-sweeper stands as a criticism to the Church, and the blood of a soldier is seen to be staining the walls of a palace. The night time is just as harrowing; the cursing of prostitutes corrupts the babies and tarnishes marriage and death.
The Prelude - 1799	The poet describes how as a youth he stole a boat and rowed one night across a lake. At the climax of this experience, he imagined that a mountain peak beyond the lake became a presence which reared up and menaced him because of his misdeed in taking the boat. He confides that for some time thereafter he struggled with the idea that nature has the capacity to torment mankind in such a way. The experience gives him a new respect for nature.
My Last Duchess - 1842	The poem is based on Alfonso, the Duke of Ferrara, from the 16 th century. The Duke is the speaker of the poem and tells us he is entertaining a messenger who has come to negotiate the Duke's marriage to the daughter of another powerful family (he has recently been widowed). As he shows the visitor through his palace, he stops before a portrait of his late Duchess. The Duke begins reminiscing about the painting sessions and then about the Duchess herself. He then talks about her disgraceful behaviour as he claims she flirted with everyone and did not appreciate him. As the monologue continues, the Duke reveals that he is the one responsible for the Duchess' death, after this, he returns to the business of arranging another marriage.
Charge of the Light Brigade -1854	The poem tells the story of the failed charge of the British cavalry in the Battle of Balaklava in October 1854. Britain was fighting against Russian forces in the Crimean War. A cavalry group (soldiers on horses), the Light Brigade, was ordered to charge down a narrow valley straight into the fire of Russian cannons. It was a huge catastrophe and 150 soldiers died. The men were respected for following orders, even though they knew they may be wrong but the disaster caused public outrage as the British public began to question the politicians and generals who led them.
Exposure - 1917	The poem focuses on the misery felt by World War One soldiers waiting overnight in the trenches. Although nothing is happening and there is no fighting, there is still danger because they are exposed to the extreme cold and their wait through the night is terrifying. The speaker describes the trauma of living and struggling in such poor conditions; there is a sense of despair and of lost hope. If being 'exposed' to gunfire does not kill them, then exposure to the brutal weather conditions might do. Alongside the more obvious meanings of the title, there is also the idea that Owen has set out to expose the conditions the soldiers have experienced to the world and in doing so expose the government's negligence of the soldiers' situation.
Storm on the Island	Storm On The Island is a poem that can be taken literally, as a dramatic monologue on the life and attitude of island people facing a storm, or it can be understood as an extended metaphor of political struggle on the island of Ireland.
Bayonet Charge -1957	The poem depicts the thoughts and feelings of an inexperienced soldier as he makes his way across no-man's land in pursuit of attacking the enemy. On his journey, he sees how not only is humanity destroyed by war, but also nature – suggesting that the effects of war are universal and impacts both far and wide.
Remains - 2008	The poem focuses on a soldier who is haunted by a violent memory of being at war. He tells how he and his comrades opened fire on a looter who may or may not have been armed, and they shot him dead. Later the soldier thinks about the shooting every time he walks down the street. Then later again, when he returns home he is still haunted by the thought of what he has done. He tries drink and drugs to drown out the memory, but they do not work. The final lines show that the memory was not left behind in the place of war in a distant land, but is with the speaker all the time.
Poppies - 2009	The poem is about the grief a mother experiences, particularly when her son goes to fight at war. The mother expresses her feelings at different moments of her son's life: when he is young, when the son leaves to go to war and finally the death of her son.
Poppies - 2009 War Photographer - 1985 Tissue - 2006	Duffy's poem is about how we deal with the suffering of others, who might be faraway. It takes the character of a war photographer to represent someone more involved and committed than we in the western world are. The photographer finds it difficult to have to record the harrowing events of war, without actually being able to help those who he takes the photograph of. Duffy provokes us to consider our own response when confronted with the photographs that we regularly see in our newspaper supplements, and why so many of us have become desensitised to these images.
Tissue - 2006	The poem explores the conflicts and troubles of the modern world; destruction, religion, war and politics, money and wealth. The poem remarks on how nothing is meant to last, that it would be better not to hold too tightly to ideas/ buildings/ societal structures that have not been questioned for a long time, and instead we should be willing to let go and pass things on in their time to be remade.
The Emigree Checking Out Me History Kamikaze	A displaced person pictures the country and the city where he or she was born. However, Rumens suggests it may now be war-torn, or under the control of a dictatorial government that has banned the language the speaker once knew. Despite this, nothing shakes the light-filled impression of a perfect place that the their childhood memories have left. This shows the power that places can have, even over people who have left them long ago and who have never revisited since.
Checking Out Me History	This poem is an expression of the anger and the frustration that Agard feels about the British education system and the way he feels as though he has not been taught nor exposed to the history of his own culture. He suggests that he feels ignorant of his own background and identity as white history is prioritised in the history teaching of schools.
Kamikaze	The poem is set around the events of a kamikaze pilot flying to war and then turning back before it was too late. Kamikaze pilots were expected to use up all their weapons and then suicide by flying into their targets as a final act of destruction. It was considered a great honour in Japan to die for your country.

Language	Definition	Example	Word class	Definitio	n	Example		
Techniques		·	Verb		s a word or set of words that	'We <u>are</u> prepared: we <u>build</u> our		
Symbolism	When an object represents an idea that is much deeper and more significant.	'Later a single dove flew from the pear tree'		painting	ction (runs, is going, has been y); feeling (loves, envies); or state	houses squat, <u>Sink</u> walls in rock and <u>roof</u> them with good slate.'		
Personificatio n	Describing an inanimate object as having human feelings.	'My city takes me dancing through the city of walls'		of being seem)	g (am, are, is, have been, was,			
Metaphor	A descriptive technique that names a person, thing or action as something else.	'The mind-forged manacles I hear'	Adverb		erb labels how, when or	' <u>Suddenly,</u> he awoke and was		
Simile	A descriptive technique that compares one thing with another, usually using 'as' or 'like'.	'my boat Went heaving through the water like a swan'			omething happens (and they nd in '–ly').	running.'		
Superlative	An adjective/ adverb that indicates the most of something.	'But most thro' midnight streets I hear'	Noun		re names, places and things; o signify imagined things like 'a	'How the youthful <u>harlots</u> curse'		
Intensifier	A word, especially an adverb or adjective, that has little meaning itself but is used to add emphasis to another adjective, verb, or adverb.	'In every cry of every Man'	Pronoun	ghost'; (and ideas or concepts, such as guilt' or 'fate'. sed instead of a noun i.e. 'he',	' <u>She</u> looked on and <u>her</u> looks		
Minimiser	A word that is used to make another adjective, verb or adverb sound lesser.	'he's there on the ground, sort of inside out'	FIOHOUH		ney', 'it'.	went everywhere.'		
Imperative	A sentence that is a command.	'Honour the charge they made!'	Adjective	An adje	ctive is a describing word or	'The bough of cherries some		
Exclamatory	A sentence that expresses a heightened emotion. They end with an exclamation mark	'She thanked men—good!'		normall	that adds qualities to a noun. It y comes before a noun, or after e 'am', 'is', 'was', 'appears' or	officious fool broke.'		
Listing	When the writer includes several words/ phrases/ ideas, one after the other.	'All my words flattened, rolled, turned into felt'		'seems'				
Repetition	When a word/phrase is noticeably repeated throughout a sentence/paragraph/whole text.	'His bloody life in my bloody hands'	Preposition		ions are short words and phrases e information about place, time inner	'Eyeballs prick with tears between the bath and pre- lunch beers.'		
Imagery	A technique in which the author appeals to the senses i.e. seeing, hearing, touching.	'Stumbling across a field of clods towards a green hedge That dazzled with rifle fire'	Structural F	eatures	Definition			
Oxymoron	A phrase in which contradictory/ opposing terms appear in conjunction with one	'the black'ning church appals'	Opening	The first mood/ image of the poem.				
Semantic field	another. A group of words which are related in theme.	'pummelsexplodingflung spitsdivesbombarded'	Cyclical		When end of the poem repeats an idea/character/setting for the opening.			
	opio manosino ana		Stanza		A 'paragraph'/verse in a poem.			
Themes	Ideas		Enjambment		A sentence or phrase that runs o	onto the next line.		
Identity	Identity is something that is heavily shaped by be determined by others. Identity is influence cultural underpinnings.	painful experiences. Identity can d by your place of birth and	Anaphora		When the first word of a stanza is the same across different stanzas.			
	-		Volta		A turning point in a poem.			
Memory	Memory is something that is deeply unreliable tremendous suffering. The memory of an ever	nt can become more painful that	Juxtaposition		Two ideas/ images placed together for contrasting effect.			
	the event itself. Memories encourage regret.		Foreshadowi	ng	A warning/ hint about what is go	ping to happen next.		
Nature	Nature is all powerful and should be respected transcends the power of humans. Nature is de	ed. The power of nature	lambic pento	ameter	A rhythm in a poem containing	10 syllables per line.		
Imp act of		-	Speaker		The narrator, or person in the po-	em.		
Impact of war	War favours the collective over the individua behaviour. As wars develop, patriotism is repl survive.		Change of motione	nood/	When the writer alters the overal	Il feeling of the poem.		
Power	Power can be used by individuals to manipule be used to limit the opportunities of groups with is always fleeting.		Refrain		A phrase, line or group of lines w poem.	hich is repeated throughout a		
			Ending		The final mood/image of the po	em.		
			-			,		

6 Beast from Air - Sam + Eric (S+E) mistake the parachutist for the beast. They hunt for the beast Plot summary but cannot find it. R notices that the fire has gone out but none of the others, especially J, seem 1 **The Sound of the Shell** – During WW2, a plane carrying evacuees crashes on an island Piggy (P) meets Ralph(R) and they find a conch shell. R made leader; Jack (J) is made 7. Shadows and Tall Trees – The hunt for the beast continues. The boys come across a pig run and glasson the mountain – One of the littluns mentions seeing a 'beastie'. They use F a Huts on the Beach – P focuses on building the shelter Land photography. R sticks a boar in the nose with a spear. The boar escapes. The boys act out a pig hunt with 2 Fire on the Mountain – One of the littluns mentions seeing a 'beastie'. They use P's Robert playing the part of the pig. J, R and Robert see the dead parachutist. 8 Gift for the Darkness – J suggests that R should no longer be leader but no one agrees. The boys 3 Huts on the Beach - P focuses on building the shelter; J and choir prefer hunting, J separate. The hunters track down a pig and kill it. They chop off its head and offer it to the beast becomes fixated on hunting pigs. Simon (S) disappears and finds peaceful, aromatic as a sacrifice. Flies swarm. S imagines the pig head is speaking to him and telling him that he cannot escape. 4 Painted Faces and Long Hair –Roger and Maurice bully the littluns on the beach. J 9. A View to a Death – The boys leave the camp to join J and the hunters. S is killed by the boys. and others paint their faces. A ship passes and R realises that the hunters have let the of fire go out. J and the hunters return with a pig and they argue with R. J punches P. They 10 **The Shell and the Glasses** – P, R and Sam 'n Eric are the only ones left in the original tribe. P and R are horrified by S's murder. J and the hunters become increasingly savage and steal P's cook the pig and have a feast.

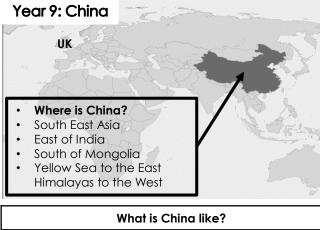
5 Beast from Water – The beast is discussed. J starts to rebel against the rules/democracy 11 Castle Rock – P+R take the conch and go to get P's glasses. P killed by Roger. J and the cook the pig and have a feast. cook the pig ar 5 **Beast from Wo** 0 and leaves the hunters throw spars at R as he runs away. → discussion with the hunters. P longs for adult intervention. 12 Cry of the Hunters – R runs for his life. Fire engulfs the island and a naval officer comes to investigate. The boys are rescued. **Historical Context Key Characters Key Themes** Symbolism and Allegory The people of Britain had just been through WW2. It was feared **Symbolism:** events/objects/places that **Power:** Golding examines the way that political Ralph -dominant, that there might be a nuclear war between Western countries and represent a bigger, more important idea power is a driving force for some humans. Golding immature, naïve. the Soviet Union. References to bombs and fighting are made **Conch –** civilization and democracy explores how power can corrupt (dictatorship) **Piggy** - nickname throughout the novel. **Piggy's glasses –** science and technology and also how power can be shared (democracy). In Golding's opinion, both sides of WW2 were just as bad - both only (never learn his Fire - hope of salvation **Civilisation vs savagery:** Golding suggests that real name): bombing civilians and mistreating prisoners. **Pigs** – hunting and savagery civilisations only exist because of authority figures. vulnerable, **The beast -** human nature (the desire to be During the 20th Century, many nations were ruled by dictators: In the absence of these, people cannot live within intelligent, mature. Spain, Italy, Germany, Russia, Uganda, Cambodia and China were a savage) civilisations. Civilisation forces people to act The Lord of the Flies (pig's head) - physical Jack - assertive. all ruled at times by cruel and tyrannous despots. Mao in China, responsibly but this is only temporary as people intimidating, violent. Hitler in Germany and Stalin in Russia were the most infamous. manifestation of the beast are, according to Golding, innately savage. Food was still being rationed in Britain. Desire for food is a major Simon – attentive, Adults – civilisation and social order The loss of innocence: Golding suggests that imaginative spiritual part and motivation of LOTF. **The ocean** – the unconscious mind; the people lose their innocence when they believe Roger – secretive, Golding served in the Navy during WW2. He fought in World War 2 desires and thoughts we have within there are no consequences for their actions. sadistic. and witnessed the inhumanity that happens when society breaks ourselves Golding also suggests that people lose their uncommunicative. innocence when their realise the human capacity Sam 'n Eric – (twins) **Allegory:** story that relates to another Public schools (where most of the boys on the island went to) still for savagery. co-dependent, produced most of Britain's leaders and top professionals. They confext **Spirituality:** Golding suggests that to be spiritual is separate. were very elitist and this is reflected in the attitudes of some of the Religious allegory to find answers and peace from within and to The biguns-**The island -**Garden of Eden consider the world through quiet contemplation. collective name for The class system was very much existent in Britain. Piggy stands out **The scar**-how man destroys paradise (the **Individual vs community:** Golding explores the Fall of Man) the older boys. for being lower class; the others are upper class. dilemma between confributing and working as The littluns -Simon - Jesús Christ Nazi Germany had adopted a system of rewarding the strong and part a community whilst also recognising the collective name for attacking the weak. The same system appears to happen in the desire to pursue individual goals. the younger boys. War allegory **Human nature**: the innate desires we have in us to The adults the boys wish could help them are the same ones who **Piggy** -the Jews; victimized, vulnerable be selfish, savage and immoral. are fighting the war that has led to the boys being stranded. Jack -Nazi leader; manipulates and bullies **Definition & Example** Example Simile A descriptive technique that compares one thing with another, usually using 'Jack was bent double. He was down like a sprinter, his nose only a few inches from the humid 'as' or 'like'. **Personification** 'Small flames stirred at the trunk of a tree and crawled away through leaves and brushwood, Describing an inanimate object as having human feelings. dividing and increasing. A device in which emotions are given to a setting, an object or the weather, Pathetic fallacy 'The sun slanted in and lay golden over half the platform.' usually to convey a particular mood. Zoomorphism A technique in which animal attributes are imposed upon non-animal objects, 'Jack himself shrank at this cry with a hiss of indrawn breath and for a minute became less a humans, and events. hunter than a furtive thing Piggy's death is foreshadowed when Jack breaks his glasses, this highlights his vulnerability in Foreshadowing A structural feature where the writer hints/indicates of a future event. the early stages of the book. **Biblical illusions** Words/situations that make reference to the bible. 'Simon found for them the fruit they could not reach.' Irony Expressing meaning that usually signifies the opposite. "We've got to have rules and obey them. After all, we're not savages.' (Jack)

Hyperbole

Exaggerated statements, usually not meant to be taken literally.

"When the war's over they'll be travelling to Mars and back."

Language Techniques	Definition	Example		Word class	Definition		Example		
Oxymoron	When a phrase is put togeth two ideas which contradict another.		smothering dreams'	Verb	shows action (runs, is going, I painting); feeling (loves, envi of being (am, are, is, have be		'He <u>plunges</u> at me, guttering, <u>choking</u> , <u>drowning</u> .'		
Personification	Describing an inanimate ob as having human feelings.	oject 'the sun s	urfacing defiantly'	Adverb	seem) An adverb labels how, w		'Then cunningly covering		
Metaphor	A descriptive technique the names a person, thing or ac as something else.	criptive technique that same person, thing or action the warm silk of sleep'			where something happen often end in '-ly').	ns (and they	his tracks'		
Simile	A descriptive technique that compares one thing with another, usually using 'as' or	undersa	ble, like old beggars ks'	Noun	Nouns are names, places they also signify imagined ghost'; and ideas or cond'love', 'guilt' or 'fate'.	d things like 'a	'Your <u>words</u> cut into <u>me</u> , sharp as a <u>knife</u>		
Superlative	An adjective/ adverb that indicates the most of somet	thing. For wear	t Love! I do not go ness of thee.'	Pronoun	Words used instead of a r 'she', 'they', 'it'.	noun i.e. 'he',	The <u>pain</u> that <u>you</u> cause always goes unseen'		
Intensifier	A word, especially an adve adjective, that has little meditself but is used to add empto another adjective, verb, adverb.	aning such high or		Adjective	An adjective is a describi phrase that adds qualitie normally comes before a verbs like 'am', 'is', 'was', 'seems'.	s fo a noun. It noun, or after	'With a <u>deep</u> multitude Of <u>colourful</u> distractions.'		
Minimiser	A word that is used to make another adjective, verb or adverb sound lesser.	e 'To childre desperate	en ardent for <u>some</u> e glory'	Preposition	Prepositions are short wor that give information abo		'They dropped <u>into</u> the dust even before the hunter		
Imperative	A sentence that is a commo	and. 'Let faxes shelves.'	butter-curl on dusty		and manner		strung his bow.'		
Exclamatory	A sentence that expresses of heightened emotion. They with an exclamation mark		S! Quick, boys!'	Structural Features Opening	Definition The first mood/ image of	•	Question 1 (24 marks)		
Listing	When the writer includes ser words/ phrases/ ideas, one the other. When a word/ phrase is		n I must scrub, and bake, ep.'	Cyclical	the poem. When end of the poem repeats an idea/ character/ setting from	using the poet's words from the poet's point of	rectly answer the question s name and using the key question. What is the view on the particular		
Repetition	noticeably repeated through a sentence/ paragraph/ wh		ge against the dying of	Stanza	the opening. A 'paragraph' in a poem.	theme?			
	text.		ula ka	Enjambment	A sentence or phrase that runs onto the next line.	Main paragrapBig idea	lain paragraph (x3): Big idea		
Imagery	A technique in which the au appeals to the senses i.e. se hearing, touching.	eeing, My bride'	gnts d spat on my scalp. s breath soured, stank y bags of my lungs.'	Anaphora	The repetition of a word or phrase at the beginning of successive lines.	Juicy quotaZoom in on l	tion key words/ techniques ter quotations to support		
		But then,		Volta	A turning point in a poem.	Link back to			
Extended	A metaphor which is continuover several lines or through	lued Someone	g wonderful happens:	Juxtaposition	Two ideas/ images placed together for contrasting effect.		mmarise your findings about has presented the theme.		
Metaphor	whole poem	walks into	the room stheir arms up	Speaker	The narrator, or person in the poem.	What is their point of view/ attitude towards it?			
		to the cei	ling beside you.	Change of mood/ tone	When the writer alters the overall feeling of the poem.		Question 2 (8 marks)		
Comparison Co	nnectives (Question 2)			Refrain	A phrase, line or group of lines which is repeated	Paragraph (x2)			
Similarities	-	ifferences		-	throughout a poem.	Identify techniques/ word class and explain effect			
Similarly Likewise		n the other hand ontrastingly	Conversely In contrast	Ending	The final mood/image of the poem.	Select quotatComparative			
2.10 11100		2	501111 431		росии	Comparativo	22.11.0011.03		



China has gone through massive economic, social and cultural change since it opened its trading borders in

1978. China is also the world's largest exporter and

second-largest importer of goods. They are now an

economic super power. The government has invested

heavily in transport systems in order to allow trade to take place easily and quickly. This wealth is filtering down to the population and today only 10% of the Chinese population lives below the poverty line of US\$1 per day, down from 64% in 1978. This economic growth has seen an huge rise in urbanisation and rural to urban migration. Mandarin is the most widely spoken of 292 Chinese dialects. China's climate is mainly dominated by dry seasons and wet monsoons, which lead to pronounced temperature differences between winter and summer.

China has the worlds fastest growing economy. This economic growth is being powered by massive fossil fuel consumption and a large workforce. The government is spending money on improving Quality of Life in China and there is a growing, wealthy middle class. There are still large areas of the country which are poor; these tend to be in the rural areas.

How is China developing?

Devel	opment Indicators - T	✓	Hydroelectric power (HEP) is generated by turbines in the	
GNI per capita	\$15 500	Growing		dam. It is the world's largest capacity HEP station.
HDI	0.74	Growing]	The electricity it produces means that China saves 31
Infant mortality	9 (per 1000 live births)	Falling		million tonnes of coal each year, and their overall gas emissions have reduced. The river is deeper and more
Literacy rate	96.4%	Growing		navigable for ships so it has improved transport and
China is classed a Economy .	s a NEE Country – Ne	wly Emerging		trade for China.

controversial One Child Policy. Couples had to be married to have a child Couples had to apply to the government to have a

gender imbalance.

Those who had one child received benefits and free health care Forced abortions were administered to anyone

Population

China was the first country in the world to record a population in excess of 1 billion; it is now over 1.3 billion.

This was largely due to past governments encouraging

large families. In the 1960s the growth spiralled out of

control and the country experienced widespread

famine. In 1979 the government introduced the

found to be pregnant with a second child It led to a number of unplanned side effects: Baby boys were favoured over girls; this led to a

The poorest became reliant upon the benefits, this led to babies being dumped The policy was so successful that the government is now actively encouraging larger families in some areas of the country. There are concerns that some

areas will be underpopulated and industry will suffer in the future. The policy was formally phased out in 2015.

The Three Gorges Dam Project

What is it? Rising from the waters of the Yangtze River, the Three Gorges Dam stands more than 40 storeys high. The dam stretches for over 2km (1.25 miles), took tens of thousands of workers over a decade to build and cost more than \$40bn (£25bn

Why was it needed? If China is to sustain its economic growth into the future then they need a reliable source of energy. They government knows that they are going to have to reduce the amount of fossil fuels they currently consume (namely coal).

Positives

- Reduced risk of flooding for homes, farms and factories along the Yangtze River.
- Water stored behind the dam is available for irrigation P) is fhe tear
- s 31 ch

Negatives

- Good farmland has been lost because of the dam.
- Over 1.3 million people were forced to move their homes as towns and villages disappeared under water.
- Important cultural and archaeological sites were lost.
- some places/the project was very expensive (\$22.5 billion, though some estimate the actual cost to be closer to the \$50bn mark).
- Sediment is building up behind the dam. There is no sediment to maintain river banks, resulting in downstream areas
 - destroyed.

and ecosystems throughout China. Smog warnings have become familiar in

certain areas of the country.

9. SEZ – financial incentives offered by the government in

TNCs in China – Apple and Foxconn

Negatives

Very long working

•Health and safety

as stringent as in HICs

•Most of the profit goes back to HICs.
•Suicide rates

amongst workers are very high.

•Poor quality of live

amongst workers.

away from families.

Workers often live

regulations are not

•Wages are low.

•There is no job

hours.

security.

Positives

infrastructure are

built by the TNCs.

government can

improving education/healt

be spent on

h/sanitation.

people have

more money to

There are a number of reasons why so many TNCs are choosing to locate factories in China (secondary Industry).

1. Low Wages – reduced costs and increased profits.
2. Cheap land – cheaper to buy land here than in HICs.
3. Resources – lots of energy resources means reliable power.
4. Big population – means plenty of workers for factories.
5. No Health and safety – factories can be up and running

6. Roads – products can be transported and exported easily and quickly.
7. Flat land-suitable and cheaper for construction.

Óther local

businesses benefit as

spend.

Why are TNCs located in China?

Increased taxes

Employment is

local people.

provided for

Roads and

for the

Environmental Issues

Air pollution – In 2010 over 250 000 people died due to air pollution. 1/3 of global lung cancer cases were recorded in China in 2012. Acid rain triggered by combustion of fossil fuels (which releases sulphur dioxide and nitrous oxides) has devastated forests

What are they?

TNCs are also

Companies.

a number of

often locate

in NEE/LIC

have their

their factories

countries and

headquarters

in HICs. They

have helped

alobalisation.

8. Cities specialise

to increase

National

They are

different

known as Multi

companies that operate in

countries. They

There is an increased risk of landslides in

becoming at more risk of flooding. Important wetland areas have been quality and increasing harmful algal blooms. This algae is poisonous to all life,

and it uses all the oxygen in the water so fish die. Tests on tap water have found

Benzene present at 200 micrograms of per litre of water. The national safety standard is 10 micrograms. Benzene is a petroleum product, from coal that is used as a component in numerous industrial products

and is known to cause cancer.

numerous cities including Bejing.

Water pollution - Coastal pollution is

widespread, leading to declines in habitat

Measuring Development					Why are some place	es richer than others?	Fair Trac Case S	de Banaı Study: Th	Fair Trade Bananas – Community Tax Case Study: The Windward Islands			
Development measures how economically, socially, culturally or technologically advanced a country is. It suggests: advancement, evolution, expansion, growth, improvement, increase, maturity, progress, changes for the better.		Physical Environment Health		FAIRTRADE What is it?	Pr	ositives	Negatives					
increase, maturity, progress, changes for the better.		1,	Hot dry climates mean food cannot be grown Disease people		Diseases can make people too							
Development				food cannot be grown so it has to bought from other countries. • Areas without fertile		weak to work or go to school.	Fair trade is a movement which	• Impro	oved wages to the	•Can be expensive to get Fair Trade		
GNI	Gross National II residents of a coabroad).	ncome (Money earned by ountry including money earr	ned	lan wa • Na	d, natural resources, ter and energy suffer. tural hazards make	Lack of fresh water meads to illness. LIC's haven't got enough money to invest in good quality health	aims to help producers in LICs improve their trading, working conditions and	•Comr on pro be use	nunity taxes oducts can ed to build	certification. •The poorest farmers can		
HDI	Human Develop expectancy, ed	oment Index. Calculated usi Jucation, and per capita ind	ng life come.	de	e progress with velopment e.g. Haiti.	care	quality of life QOL.	Impro •Impro	ols and help ve QOL. ved	suffer as they don't have certification.		
Infant mortality	How many child	dren per 1000 die before the	y are 1.	- Drin	Trade	History	Fair trade typically	workır	ng tions for	•Fair trade products		
Literacy rate		that read and write accept		LIC: pric exp ear	nary products sold by s are sold for cheap ees. HICs make more bensive products so n more.	Many countries in Asia, South America and Africa have spent a lot of time and money on conflicts since they	Fair trade typically includes primary products such as bananas that are exported from LICs to HICs.	•Small farme	scale r have control	•are more expensive to buy.		
Some develop an average ed inequality with	ment indicators conomic measur in a country. It al	are more useful than others, e so may not show the ecor so doesn't include any soci ncy. GNI Per Capita is more The most useful one is HDI as nic indicators.	GNI is nomic al	• Poo (rod or d	or intrastructure ads/internet/power) conflict means some	became independent from HICs. Many LICs haven't had time to develop fully as	Fair Tro	ade Foot Case St	balls – Micro Fii ludy: Pakistan	nance		
as it considers a mixture of sc	the population. 1 cial and econor	The most useful one is HDI as nic indicators.	s this is	god	ople cannot sell their ods at all.	they were colonised and exploited by HICs.	What is it?		Positives	Negatives		
Classifying the World's Development					Voor 0: Do	volonmont	Microfinance loans are when	I becore	ents people ning over-	* It is a loan so they have to		
Developed	An HIC has an GNI per capita of over \$12,000.			Year 9: Development What is Aid and how can it help?			money is lent to LICs to help them to develop. These are often small	their o	on fair frade. vs them to set wn business	pay the money back. * If the business fails then fair		
		A NEE has an economy that is rapidly progressing. A LIC has a GNI per capita	Type What it means			loans with * 1 co reasonable co interest rates. They pe		businesses rovide jobs for e outside of	fails then fair trade loses the money. * There are only			
		of below \$800. How useful is the Brandt map today?		Short term/ Immediate relief in emergencies such as earthquakes, floods and droughts. This ir			businesses who peop		a loan so le feel they are microcredit eing given schemes			
In the 1980's D	r Brandt classified t	he world into the rich north			money, food, blankets, tents and medical supplies.		struggle to gét credit	handa	outš. Š	available.		
and the poor s the North-Sout	outh. He drew this li n Divide.	ine called the Brandt Line or south began to develop e line became outdated.	Long Teri	ong Term For economic and social development. Its aim is to improve the quality of life for people in LICs/NEEs				Tourisn	n in Jamaica			
e.g. Singapore				Key terms		Background: Jamaica is one of beau		actions: Beach holidays with judiful sandy beaches and clear				
	•	oment Relationships			Standard of living: the economic level of a		Jamaica is one of the largest islands in the West Indies. It are they a population of the		beautiful sandy beaches and clear seas in places like Montego Bay. It has a rich cultural heritage. Jamaica is a hub for cruises. Money spent in a hotel helps to create jobs in the hotel, but it also creates jobs indirectly elsewhere in the economy. The hotel, for example, has to buy food			
will change as	ndicators are link a country develo Intries become w	ked and show different relat ops. The table below shows l vealthier.	ionsnips. In now indica	hips. They indicators person's daily life. Quality of life :is a social measure of well being e.g. Life expectancy or Literacy Rates.		has a population of 2.7 million. Its economy is based upon minerals,	Mone jobs i					
Indicator	Change	Why?			HIC: High Income Co	Fconomies e.a. India/China.	agricultural products, manufacturing and	some	ocal farmers, ve of this money	wno may spena on fertiliser or		
Birth Rate	Decrease	Government spends more family planning, access to contraception increases.	e money or	٦	LIC : Low Income Co. AID : Help given from	untry (poor) country to another, typically	manufacturing and tourism. Tourism is growing in Jamaica.	cloth incre	es. The deman ases.	d for local products		
Death Rate	Decrease	Improved health care and clean water reduces dise	d access to	,	It can also be from a	to a less developed country. charity or organisation.	Positive Impact		•	tive Impacts		
HDI	Increase	Increase in life expectance and GNI per capita		divided by its total po		GNI Per Capita: Total money earned by a country divided by its total population.		ected	- Economic: jobs in tourism are often poorly paid. Many hote are owned by TNCs and muc of the profit goes to HICs. - Social: Investment in water supplies and sanitation are focussed on tourist areas, not local areas.			
Literacy Rate	Increase	More schools are built		=	Sustainable Tourism: Sustainable tourism aims to support local communities socially and economically whilst causing no harm to the		US\$2 billion per year The industry provide 200,000 jobs.	es	- Social : Investigation of the supplies and focussed on the supplies are supplied to the supplies are	stment in water sanitation are tourist areas, not		
Sanitation	Increase	More toilets and sewage built	systems are	€	in more isolated region running small-scale lo	able ecotourism is expanding ons of Jamaica, with people idges or acting as guides.	- Tourism counts for 24% or Jamaica's GDP; expected to be 32% by 2024Income from tourism is US\$2 billion per year The industry provides 200,000 jobs Investment in infrastructure has occurred in the North of the island.		local areas Environmental: Tourism generates waste and causes footpath erosion.			
_				_			ii io isidi id.		1.00164111.010.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

How developed is India? "Development" measures how

economically, socially, culturally or technologically advanced a country is. It suggests: advancement, evolution, expansion, growth, improvement, increase, maturity, progress, changes for the better. **Development Indicators - Trend**

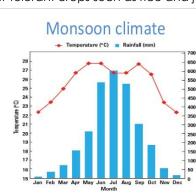
-		
GNI per capita	\$6500	Growing
HDI	0.6	Growing
Infant mortality	35 (per 1000 live births)	Falling
Literacy rate	75%	Growing

India is classed as a **NEE** Country - **Newly Emerging Economy**

Contrasting Climates

India has 6 different climatic zones. They range from the arid in the north west to warm wet tropical climates in the south and west. Near the foothills of the Himalayas, in the north of India, temperatures drop as the altitude increases.

It has a monsoon season where areas of the country receive huge amounts of precipitation. These are known as **monsoon** rains and are triggered by warm, humid winds travelling towards the Himalayas in the north. Farmers have to adapt by growing water tolerant crops such as rice and jute.



- Temperature range Moderate: 6°C
- · Rainfall patterm Distinct wet (May-Sep) and dry (Oct-Apr) seasons
- · Rainfall and temperature values High amount of rainfall of more than 2,000mm a year, high annual temperatures of around 22.2-27.8°C



mangrove forests. It is located in the Bay of Bengal and is part of the delta region of the Meghna and Brahmaputra rivers. It is home to the worlds largest coastal mangrove forest and extends east into Bangladesh. The region is also known to contain numerous wildlife species, birds and reptiles, including Bengal tiger, chital, crocodile and snakes; many of which are considered endangered. The forest is a National Park and is under threat from rising sea levels and industrial developments. Local people travel around by boat to access different areas of the forest. The fertile soils are very good for agriculture. Each year poor local fisherman risk being killed by tigers, crocodiles and snakes in order to collect honey. At least 80 people are killed by

The formation on the Himalayas

India lies south of the Himalayas. Home to Mt Everest, these are fold mountains formed by plate movements along a Collision Zone. Here, two continental plates collide and the land is forced the upwards and trigger huge earthquakes.

COLLSION PLATE BOUNDARY Fold Mountains produced by upthrust on collision

The Indian Plate is moving north into the

Eurasian Plate.

tigers each year in the Sundarbans.

INDIAN

Urbanisation is the increase in number of people living in

urban areas. In India this happening very quickly as lots of people move from the countryside (rural) to towns and cities (urban). They move due to different **Push** and **Pull** factors. Push (deter people from Pull (attract people to an staying in an area) area)

Rural to Urban Migration – Mumbai

Poverty Few jobs available Lack of schools Lack of healthcare Harsh climate Lack of services

Mumbai is on the west coast of India.

Chance of employment Healthcare Education Family links Entertainment and Better transport links

Life in Mumbai

It was once seven islands and the main industry was fishing. It is now a mega city with a population of over 21 million. It is India's most important trading port.
It has trading and transport links with countries all over the There are more billionaires live in Mumbai than in all of the UK; there are huge inequalities in the city. Street kids often get involved in crime and drug use whilst kids from affluent areas live luxurious lives. Its is home to a number of huge Trans National Companies (TNCs)such as Tata. Almost 1 million people live in Dharavi, the second largest slum

Informal employment is very important in Dharavi.

Redevelopment in Mumbai

Authorities in Mumbai are trying to redevelop areas of the slums in order to improve peoples lives. People living in urban slums often suffer from overcrowding. inadequate housing, limited access to basic services and poor environmental quality. The **slum sanitation** project aims to improve sanitation facilities for up to a million slum dwellers across the city. So far over 300 community toilet blocks have been built, housing more than 5100' individual toilets, with separate facilities for men and women. Mumbai Electrification Project: slum areas do not have access to electricity and rely on bottled gas for cooking and heating. This is expensive and dangerous. Also the fumes created can cause health problems. The Global Partnership on Output Based Aid (GPOBA) have recently completed a project which is providing 10 000 slum dwellers with new or upgraded electricity connections. Plans to improve peoples homes have been controversial. Developers want to knock down areas of the Dharavi and replace it with high rise apartment blocks. Many local people are against this as they feel

they will loose their sense of community and their homes

which many have lived in for generations.

America: B	Boom, Bust and Recovery		VO: Amorica
timeline			KO: America
	America enters WW1		
	WW1 ends with the Armistice	Reasons why Prohibition failed	DETAILS
1919	Congress refuses to join the	The •	Most enjoyed alcohol and were unwilling to obey the law.
	League of Nations	American •	the same of the sa
Jan 1920	Prohibition comes into force	people •	D 1005 H
	under the 18 th Amendment		saloons in 1919.
	and the Volstead Act	•	
April 1920	Two Italian-Americans, Sacco	Corruption •	
	and Vanzetti, arrested on	•	
	suspicion of armed robbery		and the police to leave them alone.
	and murder	•	
Aug 1920	19 th Amendment gives women	Bootlegging •	
	the right to vote	"	
Nov 1920	Republican Warren Harding is	•	
1000	elected as President	Gangsters •	
1922	Fordney-McCumber tariff		murders in Chicago in 1926 and 1927.
	makes imported food	•	Powerful gangsters like Al Capone in Chicago built up powerful networks of corrupt
1004	expensive		officials, including politicians, the police, judges and even the Mayor of Chicago.
1924	Peak year for production of		
1004	Ford's Model T		and led to arguments to get rid of Prohibition.
1924	Immigration Quota Act		
1005	severely restricts immigration	KEY TERMS/PHRA	
1925	KKK membership reaches its	Isolationism	America's policy towards world affairs after World War One. They stayed out of
1007	peak – 5 million members Sacco and Vanzetti are		European affairs in order to concentrate on domestic issues within America.
1927		Cycle of	Mass production -> more sales -> more jobs -> more customers -> more demand ->
1007	executed	prosperity	mass production
1927	First 'talkie' is made and called	Hire purchase	Paying in regular instalments for a product e.g. over 12 months
1000	'The Jazz Singer'	Assembly line	A line of workers and machines where each worker does one specific task in the
1929	St Valentine's Day Massacre. Al		design of a product.
	Capone's men murder 7 of	Flappers	1920s fashionable young women who enjoyed themselves without following the
Oct 1929	Bugsy Moran's gang		traditional expectations of female behaviour.
Oct 1929 1933	Wall Street Crash	Anarchist	Someone who rejects authority and believes in self-will without the need for
	14 million people unemployed. Franklin D Roosevelt is elected,		government.
1404 1733		lynched	To be killed, usually by hanging, without a legal trial.
	promising a 'New Deal' for the	'wets' and	Wets opposed Prohibition as they wanted to drink. Dries supported the ban on
Dec 1933	American people. Prohibition is repealed	'dries'	alcohol.
DEC 1733	Trombilion is repedied	bootlegger	A person who made, sold or transported alcohol illegally during Prohibition.

KO: America

Event	Outcome
Why was	 Industrial strength – the USA was rich in natural resources such as oil and coal. It was the world's leading oil producer and at the forefront of technology
there a	innovation, e.g. cars and telephones. Most of its 123 million population worked in industry which paid higher than farming. Most of these people became
boom?	a market to target their new consumer products at.
	Republican policies – Republican Presidents throughout the 1920s believed in 'laissez-faire'; that the government should interfere as little as possible in
	people's everyday lives. They introduced tariffs on imported goods and kept American taxes as low as possible.
	• Ford's assembly line – Set up to mass produce motor cars. Each worker on the production line had small jobs to do as the skeleton of the car moved past
	them. The Model T was the most famous car to be mass produced this way and, as a result, was affordable for American families.
	• America's economic position after WW1 – America sold arms, munitions and food to the Allies during WW1. By the end of the war America was one of the
	world's leading exporters.
America: a	• Radio and jazz music – Most households owned a radio in the 1920s. By the end of 1922 there were 508 radio stations across America. This gave access to
consumer	new music such as jazz, which captured the imagination of young white and African Americans. The 1920s became known as the Jazz Age and led to
society?	dance crazes such as the Charleston.
	• Sport – Baseball became a big money sport as people had more money and leisure time. Teams like the Boston Red Sox became legendary. Boxing was
	also very popular, with famous names like Jack Dempsey winning the world heavyweight title.
	Cinema – A major film industry developed in Hollywood, Los Angeles. All movies were silent until 1927 but starred Charlie Chaplin and Buster Keaton
	(comedy) and Douglas Fairbanks (adventure). An estimated 100 million cinema tickets were being sold per week by the end of the decade.
	• The car – Cars opened up the suburbs which gave Americans opportunities to spend their money on the cinema, sport, beach holidays, shopping trips,
	picnics in the country or to visit family or friends.
Changing	• Impact of WW1 – Some women were employed by the war industries during WW1, giving them a first taste of skilled work. This changed many people's
role of	traditional expectations and attitudes towards women and their capabilities and led to all women being given the vote in 1920.
women in	• Flappers – Some women wore short dresses and make-up and smoked in public. One writer said the ideal flapper was 'expensive and about nineteen'.
1920s USA	Influence of films – women were more exposed to a wider range of role models. E.g. sexy or daring heroines or in a more traditional role. Attitudes of money women were still paid less than mone and were still seen as type lestable, as political expedidates.
Prejudice	 Attitudes of men – women were still paid less than men and were still seen as 'unelectable' as political candidates. The Red Scare – A fear of communism led to discrimination against immigrants from eastern Europe and Russia. E.g. 400,000 American workers went on
and	strike, with authorities fearing Communist interference. A number of bombing attacks were linked to immigrants with radical political beliefs.
intolerance	 Sacco and Vanzetti – Italian Americans arrested on suspicion of armed robbery and murder. Their trial was well publicised as they were self-confessed
illiolerance	anarchists. They were found guilty despite dubious evidence and executed in 1927.
	The Ku Klux Klan – used violence to intimidate African Americans. It became more powerful in the 1920s and murdered thousands of African Americans
	by lynching.
Causes of	 Anti-Saloon League and Women's Christian Temperance Union – gained support particularly in rural areas and persuaded their state governments to
Prohibition	prohibit the sale of alcohol in their state. It was backed by leading industrialists and developed into a national campaign.
	• Impact of WW1 – workers were seen as more reliable if they did not drink. Many breweries had been set up by German immigrants and so created anti-
	German hysteria. Beer and spirits were seen as counter-productive to the 'moral' society America claimed to possess.
	• 'dries' – Used powerful arguments to win support for their case. E.g. they claimed that 3000 infants are smothered yearly in bed, by drunken parents.
Wall Street	Causes – A large increase in the general public and the banks speculated on the stock market by buying shares or by borrowing money to buy shares.
Crash	Share prices hit a high but, as people lost confidence, came crashing down in 1929. American industries had produced more than they could sell during
	the boom period. By 1929 most of the people who could afford these good had already bought them.
	• Unemployment – Businesses were forced to cut production and lay off workers as more and more banks failed and people stopped spending money. By
	1933 there were 14 million unemployed in America.
	• Poverty – High unemployment hit agricultural areas worst of all. People resorted to queuing for cheap meals, using soup kitchens, setting up shanty towns
	(Hoovervilles) while they searched for work and searching rubbish tips.



American presidents

John F Kennedy (1961-63)— provided aid, advisors and machinery to South Vietnam but not troop. Kennedy was a believer in the policy of containment.

Lyndon B Johnson (1963—69) - escalated the war by ordering Operation Rolling Thunder (blanket bombing of North Vietnam). He brought in the draft. Protests against the war grew under his presidency—'Hey LBJ how many kids did you kill today?'

Richard Nixon (1969-74) —introduced the policy of Vietnamisation to try to bring the war to an end. He negotiated the Paris Peace Accords which brought American involvement in the war to an end.

Gerald Ford (1974-77) —cut the amount of aid sent to Vietnam leading to the fall of Saigon in 1975. The Communists took over Vietnam and united the North and South.

Leader of North Vietnam

Ho Chi Minh (1954-69) — he was determined to reunite Vietnam under communist rule. By the early 1960s, Ho Chi Minh led North Vietnamese-backed guerrillas, the Vietcong, who were attacking the South Vietnamese government. Fearing the spread of communism, the United States provided increasing levels of support to South Vietnam. By 1965, large numbers of American troops were arriving and the fighting escalated into a major conflict.

Leader of South Vietnam

Diem - prime minister of South Vietnam from 1954 until his assassination in 1963. He refused to hold elections to allow the people to decide if Vietnam should be reunited. He was corrupt and oppressed the South Vietnamese people. He persecuted Buddhists and was hated by many South Vietnamese people.

Keywords and definitions Capitalism— an economic and political system in which a country's trade and industry are controlled by private owners for profit rather than by the state

by private owners for profit, rather than by the state.

Communism— an economic and political system which owns all major productive resources in a society. Wealth is divided among citizens equally or according to individual need.

Vietcong — nickname given to the NVA (North Vietnamese Army). They infiltrated South Vietnam to try to convert people to Communism.

Containment – America's policy to stop the spread of Communism.

Domino Theory – the theory that if one country becomes Communist, it will spread to others around

Hearts and Minds – American tactic used to befriend the South Vietnamese people to stop them from becoming Communist. This involved supplying medical supplies, educational resources and

farming tools.

Napalm – a highly flammable petroleum jelly used to blanket bomb areas of North Vietnam.

Agent Orange – a chemical defoliant used on dense areas of jungle. America used this to

try to locate the Ho Chi Minh trail. Dioxin in Agent Orange caused birth defects and cancer.

The draft—conscription into the army using a lottery system. 2.2 million men were drafted into the army during the Vietnam War.

Vietnamisation – used by President Nixon as part of the withdrawal from Vietnam. As American troops left Vietnam they would be replaced by South Vietnamese soldiers.

	una sooni.	
l ∋.	USA tactics	Vietcong tactics
or	Napalm/blanket bombing—used to try to cut off supplies moving along the Ho Chi Minh trail.	Tunnels—a network of tunnels were dug underground to provide a hiding place, shelter and stores for supplies and weapons. All entrances were concealed.
to I	Search and destroy—ransacking towns and villages that were suspected of Vietcong activity. Helicopters would be used to drop in US soldiers.	Traps—Punji traps were made from bamboo and caused injury and infection. The fear of traps caused psychological damage to US soldiers.
d nd	Hearts and Minds—attempts to befriend the South Vietnamese people and turn them against Communism	Ho Chi Minh trail—a secret jungle trail used to move supplies from North to South Vietnam
iu	Agent Orange—a defoliant used to provide better views of the jungle floor to try to locate the Ho Chi Minh trail.	No uniform—this made it impossible for American soldiers to tell who was the enemy.

Major events during the Vietnam War

The Gulf of Tonkin Incident, 1964—North Vietnamese warships supposedly attacked United States warships, the U.S.S. Maddox and the U.S.S. C. Turner Joy, on two separate occasions in the Gulf of Tonkin, a body of water off the coast of Vietnam. President Lyndon Baines Johnson claimed that the United States did nothing to provoke these two attacks and that North Vietnam was the aggressor. This was a turning point as it brought America into the Vietnam War.

The Tef Offensive, 1968—a ceasefire was agreed by both sides to allow people to celebrate Tet (Vietnamese new year). However, North Vietnam broke their promise and carried out surprise attacks on over 100 cities in South Vietnam. For the first time in the war the Vietcong engaged in face to face fighting. Due to the unexpected attack, the Vietcong were able to takeover strategic areas and buildings e.g radio stations and the American embassy in Saigon. Although the Tet Offensive was halted by US soldiers within 48 hours, it was viewed by many as another reason why America should withdraw from Vietnam.

The Peace Moratorium, 1969— protest against the war had started in the early 1960s but the march on Washington was the largest protest demonstration in US history with an estimated two million people involved. In towns and cities throughout the US, students, working men and women, school children, the young and the old, took part in religious services, school seminars, street rallies and meetings. In Washington DC 250,000 people marched with many wearing black armbands to signify their disgust at the war and to pay tribute to American personnel killed in the war since 1961.

Paris Peace Conference, 1973— this peace treaty was signed to end the Vietnam War.. It ended direct U.S. military combat, and temporarily stopped the fighting between North and South Vietnam.

The fall of Saigon, 1975— On April 30, 1975, Communist North Vietnamese and Viet Cong forces captured the South Vietnamese capital of Saigon, forcing South Vietnam to surrender and bringing about an end to the Vietnam War.

March 1936	Germany sends troops into the <u>Rhineland</u> (area on the French-German border) going against the treaty of Versailles. Britain and France do nothing.
March 1938	Germany joins with <u>Austria</u> , again against the treaty of Versailles. Britain and France do nothing.
September 1938	Hitler puts pressure on Czechoslovakia. Britain and France finally decide to get involved. A deal is made at <u>Munich</u> . • Hitler agrees not to take over any more land • Britain & France agree that Germany may take over part of Czechoslovakia
March 1939	Hitler ignores the deal he made at Munich, and takes over the rest of Czechoslovakia. Britain & France humiliated.
August 1939	To avoid the possibility of a war on two fronts, Hitler makes a non-aggression pact with the Soviet Union. The <u>Nazi-Soviet Pact</u> .
September 1st 1939	Germany invades Poland
September 3rd 1939	Britain and France declare war on Germany
April 1940	German troops invade Denmark and Norway
May 1940	Germany invades the Netherlands and France. German blitzkrieg

WORLD WAR II TIMELINE

(lightning-war) has enormous success. France taken over in 6 weeks!

September 1939 ·Germany invades •Great Britain and France declare war on Germany

February 1943 April 1941 •Germans surrender •Greece and Yugoslavia at Stalingrad are captured December 1941 •German and Italian *Japan attacks Pearl troops surrender in Harbor, Philippines, and French North America **Dutch East Indies** July 1943 *United States enter war *Soviets defeat Germans at

*Germany is invaded April 1945 Soviets enter Berlin *Hitler and Mussolin May 1945 Germany surrende

March 1945

Battle of Kursk 1941 1942 1943 1939 1940 1944 1945 1946

June 1941

April 1940 *Blitzkrieg against Denmark and

August 1940 Air attack May 1940 *Attacks against against Britain Netherlands, Belgium, France

Fall 1942 Germans attack Stalingrad June 1940 *Britain and United *France surrenders States invade North Africa

June 1944 Spring 1942 *Hitler invades *Japan controls most *Rome falls to Allies Soviet Union of Southeast Asia ·D-Day, June 6th August 1944 *United States wins *Paris is liberated battles of the Coral Sea and Midway

August 1945 United States drops atomic bombs on Japan Japan surrenders

World leaders British prime ministers

Neville Chamberlain - served as British prime minister from 1937 to 1940, and is best known for his policy of "appeasement" toward Adolf Hitler's Germany. He signed the Munich Agreement in 1938, relinguishing a region of Czechoslovakia to the Nazis.

Winston Churchill—served as British prime minister from 1940 to 1945. He is best remembered for successfully leading Britain through World War Two. He was famous for his inspiring speeches, and for his refusal to give in, even when things were going badly.

Keywords and definitions

Treaty of Versailles—a list of terms that Germany had to adhere to after World War One. The included a reduced military, loss of land and reparation repayments of £6.6 million.

Rearmament – building up military forces. Hitler defied the Treaty of Versailles and began to rearm Germany in 1935. The Germany army had 78 divisions by 1939.

Lebensraum – living space. Hitler described his aims to take the USSR for living space in his book Mein Kampf. **Anschluss** – the union of Germany and Austria.

Appeasement – British foreign policy followed by Neville Chamberlain. Appeasement gave Hitler what he wanted to avoid war.

Blitzkrieg – Nazi tactic involving air strikes to take out strategic points e.g bridges, communication lines. This was followed by troops on the ground moving in on foot to secure the area.

Operation Barbarossa – the Nazi invasion of the Soviet Union in 1941.

Facism— a form of government that is based on a one party dictatorship. Facist leaders put the needs of the country over the needs of the individual.

Communism— a form of government which owns all major productive resources in a society. Wealth is divided amona citizens equally or according to individual need.

Major events of World War Two

Nazi-Soviet Pact, September 1939 - Hitler and Stalin sign an agreement to both invade Poland and split the country between them. This came as a surprise due to their differing ideologies—Hitler was a Facist and Stalin was a Communist. Stalin knew that Hitler would betray him, by signing the pact it gave him time to build up his army in preparation for a Nazi invasion.

Evacuation of Dunkirk, June 1940 – British troops are pushed back to Dunkirk by the Nazis. The British government order a full evacuation from the beaches using any available boats. 68,000 deaths or casualties but 345,000 men rescued. Churchill uses 'the spirit of Dunkirk' to boost morale in Britain.

The Blitz, September 1940 to May 1941 – after Nazi failure in the Battle of Britain, Hitler orders aerial bombing of major cities and ports in Britain. The raids lasted for eight months and killed 43,000 civilians.

Operation Barbarossa, June 1941 – the Nazi invasion of the USSR. Hitler broke the terms of the Nazi-Soviet Pact to achieve 'Lebensraum'. Stalin responded by using the scorched earth policy and hand to hand combat. The Battle of Stalingrad and Leningrad were based on siege warfare.

Pearl Harbour, December 1941 – surprise Japanese attack on Pearl Harbour in Hawaii. Approximately 2,400 Americans were killed and eight battleships were damaged. This brought America into World War Two and started the war in the Far East.

D-Day, June 1944 – the Allies campaign to liberate Western Europe. Three million service personnel were involved in 'Operation Overlord'. Soldiers landed on five beaches in Normandy and were successful in pushing the Nazis back to Germany by May 1945. Deception was key in making the operation a success.

Atomic bomb, August 1945 – due to Japan's refusal to accept an unconditional surrender, American drops the atomic bomb to bring World War Two to an end. The first was dropped on Hiroshima on 6th August 1945 followed by a second on Nagasaki on 9th August 1945.

American presidents

Franklin Roosevelt— served as American president from 1933 to his death in 1945. He built powerful wartime friendships with Britain and the USSR. He declared war on Japan and Germany following the bombing of Pearl Habour and led America to gain victory over the Nazis in Europe. His wartime efforts prepared the path for his successor, Harry Truman, to win the war in the Far East.

Harry Truman—ended World War Two by dropping atomic bombs on Japan after their refusal to accept an unconditional surrender. He described the dropping of the bomb on Nagasaki as 'the greatest day in history'.

Leader of USSR

Stalin (1924-1953) — signed the Nazi-Soviet Pact with Nazi Germany in 1939 but was betrayed by Hitler in 1941. Stalin encouraged everyone in the USSR to fight in the 'great patriotic war' against Nazi Germany. Stalin claimed victory in the Battle of Stalingrad.

Leader of Germany

Hitler (1933-45) - rose to power as leader of the Nazi Party, Chancellor and then Fuhrer. Vowed to seek revenge for the Treaty of Versailles and became more confident due to the Appeasement policy. Hitler started World War Two by invading Poland in September 1939.

Causes of World War One The direct cause of WWI was the assassination of Archduke Franz Ferdinand at Sarajevo on 28 June 1914. However historians feel that a number of factors contributed to the rivalry between the Great powers that allowed war on such a wide-scale to break out. One way to remember the FOUR main causes of World War I is to remember the acronym M - A - I - N. (M = Militarism, A = Alliances, I = Militarism). Imperialism, and N = Nationalism.) All these powerful countries started spending a lot of money on their Defense Forces, including increasing their military technology, number of weapons and trained soldiers. As each country increased their spending on their armies, their enemies would too. This resulted in a cycle of major

army of around 250,000 professional soldiers. Lord Kitchener, Secretary of State for War told the government that Britain needed at least one million men. The government began a massive recruitment drive. It set up recruitment offices in every town and city, it commissioned posters and pamphlets urging young men to join up. The campaign was hugely successful. There was a frenzy of enthusiasm. Football teams and bus depots joined up together entering the army in 'Pals Battalions'. No one, it seemed, wanted to be left out. In the first month over 500,000 men had signed up. By March 1916 over 2.5 million men had volunteered to join 'Kitchener's Army'.

Recruitment and propaganda:

When war broke out, Britain had a small

Increased their spending on their armies, their enemies would too. Inlis resulted in a cycle of major growth of power as well as continuing to worsen the relationship between the countries. The Anglo-German Naval Arms Race was a race to build ships in Britain and Germany, and added to the tensions within Europe. In the late 1800s, the United Kingdom had the largest navy in the world. After the British threatened to stop shipping along the German coastline in 1897. Germany increased its navy, Britain saw Germany's expansion as a threat, and in turn started to build more ships and make them more powerful. The public supported their country, and both countries continued to spend more and build faster. In 1912, Germany decided to spend more on their army instead, because it saw the size of Russia's army as more of a threat than the British navy. Before 1914, there were a few strong and powerful countries within Europe. They had divided into two groups, who agreed they would help defend one another if one of them did go to war with a country from the other group. None of the countries planned to be the one to declare war. • The Triple Alliance In the Parish Common of the Property of the Pr Imperialism and Nationalism
Before the war, many of the powerful nations were full of nationalism and imperialism. The governments and the media celebrated how great their nations were, and making fun of enemy countries they saw as weak. The growth of their militaries made the countries feel stronger and more important than countries around them. It also meant that they supported going to war, because they did not believe they could lose. Most countries even had war plans for their militaries if war did break out.

In September 1914, Lord Kitchener, British war secretary, was put in charge of recruiting more volunteer soldiers to help fight in the trenches. By the end of September, 175,000 men between the ages of 19 and 38 were recruited and were grouped together depending on where they lived or

worked. Therefore most of the men in these 'Pals Battalions' were close friends. Military Service Act: (Conscription)

By the start of 1916, the British Government needed to take more forceful action in order to recruit enough soldiers to win the First World War. In January 1916, the government passed the first Military

Conscientious Objectors: A significant number of men resisted the propaganda posters and recruitment sergeants, not because they were cowards, as was often asserted by their opponents, but because they had genuine moral or religious objections. These men became known as the conscientious objectors, or "Conchies".

exemption fell on deaf ears. These men often faced harsh treatment, prison and, in a few cases, death.

in 1918.

The Battle of the Somme:

This campaign began on 1st July 1916. General Haig the leader of the British armed forces believed this would

be a highly successful attack. For 7 days the artillery

bombarded the German trenches before British soldiers left the trenches to march across no man's land. On the

or wounded. After 5 months of fighting, more than a million casualties had been suffered by both sides and only 5 miles had been gained by Britain and her allies. The British and French troops made only a small advance into the German-held areas. Because of this, many people saw it as a failure and

first day approximately 60,000 British soldiers were killed

men were now being made available for conscription.

thought that General Haig, who was in charge of the British Army, had not done a good job. Most people who study this part of history do agree that the Battle of the Somme drained the German Army and this was an important first step towards the Allied victory Traditional family structure was completely changed by the First World War. Many married women were forced into the

Women during WW1:

1918.

were drafted into industries that had been depleted by military conscription. Over the course of the war: 200,000 women took up jobs in governmental departments. 500,000 took up clerical positions in private offices. 250,000 worked on in agricultural positions. 700,000 women took up posts in the munitions industry, which

was danaerous work. Many more women did hard heavy work, including ship building and furnace stoking. These types of jobs had excluded women prior to the war. In July 1914, before the war broke out there were 3.2 million women in employment. This had risen to 5 million by January

1918. This helped a number of women to gain the vote in

workplace by the death of their husbands. Other women

Why did men volunteer To fight alongside friends and family Duty to defend the Kina and Country Fear of being seen For better money or To learn a trade or For an adventure or It would be over by Trenches: Trenches were long, narrow ditches dug into the ground where soldiers lived all day and night. In the middle, was No Man's Land, Soldiers crossed No

Knowledge World War C

One

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Organiser

Life in the trenches:

Man's Land when they wanted to attack the other Soldiers in the trenches did not get much sleep. When they did, it was in the afternoon during daylight and at night only for an hour at a time. They were woken up at different times, either to complete one of their daily chores or to fight.

During rest time, they wrote letters and sometimes

Assassination of Archduke Franz Ferdinand
Slavic nations are a group of people sharing similar cultures and histories. They also speak similar Slavic languages. Austria-Hungary included land in which Slavs close to the Serbian border lived. A terrorist group in Serbia called the Black Hand Gang wanted to free those Slavs. They felt Austria-Hungary's declaration of Bosnia-Herzegovina's independence justified their action. Serbia had become aware of the assassination plan and tried to warn Austria-Hungary. Their warning was too vague and so was not taken seriously. It is only after the war that the warning was publicly discussed, Archduke Franz Ferdinand and his wife were shot during a visit to Bosnia on 28 June 1914. Austria-Hungary was angry that Serbia adia not think it was a Serbian responsibility to investigate the shooting. Although Serbia agreed to some of the demands for action sent to them by Austria-Hungary, it was not enough. played card games. The trenches could be very muddy and smelly. There were many dead bodies buried nearby and the latrines (toilets) sometimes overflowed into the trenches. Millions of rats infested the trenches and some grew as big as cats. There was also a big problem with lice that tormented the soldiers on a

Service Act and in doing so, began the recruitment policy of conscription. The first act stated that all single men between the ages of 18 and 41 could be called up to the British Army by the government without warning. Only people in war related jobs such as munitions and conscientious objectors could refuse. A second Military Service Act passed in May 1916 stated that married

The conscientious objectors faced a great deal of opposition from the public and the Press. However, the British Government wasn't entirely unsympathetic and did allow men to state their objection to military service on grounds of their consciences. Unfortunately, sympathy at local level was sometimes in short supply and many conscientious objectors found that their requests for

Why did the war end? Germany and her allies realised it was no longer possible to win the war. The Triple Alliance had been damaged. Some reasons for this included the

to fight?

To avenge the deeds of the

as a coward

To fight for their

enemy

wages

families

holiday

Christmas

had failed in 1916. Germany was now losing the Great Battle in France and the German Navy had gone on strike and refused to carry on fighting. Furthermore, the United States joined the war in April 1917, which gave the Triple Entente greater power.

fact that the Schlieffen Plan had failed in 1914 and the Verdun Offensive

were arriving in France. This added greater military strength to the Triple Entente forces. The leaders of the German army told the German government to end the

Square.

Germany was not strong enough to continue fighting, especially as the USA had joined the war and hundreds of thousands of fresh American soldiers

fighting. Kaiser Wilhelm, Germany's leader, abdicated (left his job) on 9 November 1918. Two days later, Germany signed the armistice and the guns fell silent. People in Britain, France and all of the countries that supported them, celebrated the end of war - a war that had lasted four years and four months. In London, a huge crowd gathered in Trafalgar

Events		Keywords		Key People			
28 th June 1914	Assassination of Archduke Franz Ferdinand (heir to the throne of the Austro-Hungarian Empire) by Gavrilo Princip.	Empire	One country ruling over other nationalities either neighbouring countries eg Austria Hungary, or overseas eg British Empire in Africa.	Archduke Franz Ferdinand	Member of the Austrian Royal family, the heir to the throne (next in line to be the Emperor/ruler of Austria-Hungary). Married to Sophie and took her with him on a royal tour to Sarajevo, the capital of Bosnia. He was assassinated on		
23rd July 1914	Austria-Hungary demands Serbia pay for the assassination of Franz Ferdinand, Serbia does not meet the demands.	Imperialism	The desire to conquer colonies (other countries), especially in Africa. This brought the major powers into conflict in the late 1800s-early 1900s.	June 28, 1914 by Gavrilo Princip. Born in Bosnia, Princip was a member of the Black Hand Gang. The gang planned to assassinate Franz Ferdinand and Princip fired the bullet that killed Franz Ferdinand and his wife. Alfred von Schlieffen Schl			
28th July 1914	Austria-Hungary declares war on Serbia, Russia begins mobilising its troops.	Naval Race	A race between Germany and Britain to develop the best and strongest navy. A cause of rivalry and tension between them.				
1st August 1914	Germany declares war on Russia, it also moves its army towards France .	Nationalism	To believe in the strength and power of your own country. The belief that your country is better than others.				
3rd August	Germany declares war on France as part of the Schlieffen Plan.	Assassination	A politically motivated murder.		the Germans were slowed down by the French and British.		
4th August	Germany invades Belgium, Britain	Arms Race/Militarism	Competition between countries to see who could have the best armed forces.	Black Hand Gang A terrorist group who wanted to see the end of Austro Hungarian rule over Bosnia. They planned the assassina of Archduke Franz Ferdinand.			
1914	declares war on Germany . The advancing German army is stopped before Paris by the British	Schlieffen Plan	German war plan designed to stop them having to fight a war on two fronts against France and Russia, it failed.	Field Marshall	Field Marshall Douglas Haig is most associated with the Battle of the Somme in World War One. Douglas Haig was		
September 1914	and French at the First Battle of the Marne. The Germans dig in and four	Alliances	A group of countries who promise to support and profect each other.	Douglas Haig	Britain's commander-in-chief during the Somme battle and took much criticism for the sheer loss of life in this battle. Many debate whether he was a hero or a butcher.		
	years of trench warfare begins.	Triple Entente	Britain, France, Russia				
7 th May 1915	An American passenger liner called the Lusitania, which had many American passengers aboard, was sank by a German U-boat	Triple Alliance Trench foot	Germany, Austria-Hungary and Italy This was an infection of the feet caused by cold, wet and insanitary conditions in the trenches.	Tactics used in Trench Warfare: Heavy guns bombard an enemy trench for hours on end to try to weaken their defences. At zero hour men would go 'over the top' into no man's land. The aim would be for soldiers to attack the enemy's front line trench.			
	Conscription (men being forced to	Conscientious Objectors	Men who refused to join the army for religious or moral reasons.	All soldiers were armed with a rifle and bayonet (knife). Other weapons used were machine guns, poison gas, and later, tanks. Weapons: Rifle - Each man who joined the British army was issued with a rifle and a 40cm steel bayonet to attach to the end. These rifles were slow, firing approximately 20 bullets per minute, but very accurate. Snipers used this to 'pick off' an enemy soldier who lifted his head out of the trench. Gas - Gas was first used by the Germans in 1915. It soon proved its worth as a weapon of war used by both sides. There were two types. Chlorine Gas suffocated			
January 1916	sign up to fight in the war) was introduced. Targeting single men aged 18-41. Within a few months World War 1 conscription was rolled out for married men.	No Man's Land	The strip of land in-between the 2 sets of trenches. This was filled with mines, barbed wire, craters, shells. Most men who entered did not survive.				
	The Battle of the Somme - The battle was preceded by a week-long artillery bombardment of the German line which was supposed to destroy the barbed wire defences placed along the German line but only actually succeeded in making No Man's Land a mess of mud and craters. The five month long battle saw the deaths of 420,000 British soldiers (60,000 on the first day), 200,000 French soldiers and 500,000 German soldiers all for a total land gain of just 25 miles.	Over the Top	The phrase "over the top" referred to leaping out of a trench in order to charge into battle across No Man's Land.				
1st July- November 1916		Canaries	Nickname given to women working in munitions factories due to the chemicals from weaponry making their skin turn yellow.	the lungs so the victim could not breathe. Mustard Gas blistered the skin and caused eyes to bulge. A victim would cough up the lining of his lungs. An early gas mask consisted of a handkerchief dipped in urine and tied to the face! Gas caused 15% of all casualties in the war, but by 1918, effective gas masks had been developed. Machine Gun - The machine gun was an untested weapon of war in 1914 but it			
		Munitions	military weapons, ammunition and equipment				
		Armistice	An agreement to stop fighting	soon became re	soon became recognised as one of the world's deadliest weapons. Some could		
		Conscription	Being forced to sign up to join the army		ets per second. In the first 12 days of fighting, the French army		
		Recruitment	Enlisting new people into the armed forces		losses – mostly through machine gun fire. About 40% of the wounds a soldiers in the war were caused by machine auns.		
7 th December 1916	David Lloyd George becomes the new Prime Minister of Britain.	Propaganda	A number of posters were designed to play on the emotions of the British people and persuade men to sign up to fight	Artillery - These were called) over	Artillery - These were large, heavy guns that could shoot bombs (or shells as they were called) over long distances. They were used to bombard the enemy trenches		
6 th April 1917	USA declared war on Germany		A number of information from the front line was banned/censored and altered in the	for several hours before an attack. Some big guns could fire shells over 13 miles. When they exploded, the red hot 'shrapnel' could cut an			
9 th November 1918	Kaiser William II of Germany abdicates and Germany is declared a republic.	Censorship	British newspapers to keep the morale high in Britain	enemy to pieces. The noise also caused soldiers to suffer 'shell-shock' – a condition similar to a nervous breakdown. Artillery caused about 60% of all Injuries during the			
11 th November	At 11 am, the Armistice (agreement to stop fighting) was signed bringing	Conscientious objector	Men who refused to fight in the war for moral or religious reasons.	war. Tanks - Tanks were first used by the British in 1916. Although they frightened the Germans, they were slow - moving at around 4 miles per hour - and broke down easily. In 1917, over 400 British tanks crossed 'No Man's Land' and forced the Germans to retreat at the Battle of Cambrai.			
1918 June 1919	the war to an end. Treaty of Versailles signed	Abdicated	To give up the throne of a country. The Kaiser (Emperor of Germany) resigned and fled the country at the end of the war.				
20.10 1717			nea me coomy at the ona of the wal.				

TOPIC	KEY INFORMATION	Knowledge Organiser— English Civil War
1. What were the main events that led to the English Civil War?	Parliament- The Magna Carta established that the King was not above the law and he had to ask his barons for advice. In the 13th century, the fi monarch to regularly consult with the most important people in England. When Charles I came to the throne, parliament had evolved to a point of King- James I comes to power in 1603. 1604-11- James argues with parliament over finances and whether the monarch has the right to raise mon for three years. 1614- James recalls parliament but after eight weeks dissolves it again as parliament wanted to discuss James raising money without dies and his son Charles I came to power in 1625. Charles I marries French princess Henrietta Maria, a devout Catholic, which causes alarm amon parliament over religious and financial issues, he dissolves parliament and does not call for them for another 11 years, the period is known as 'Persa Archbishop of Canterbury, Laud offends many as he introduced reforms similar to Catholicism. 1634- Charles expands a tax known as 'Ship mone many MP's aren't happy. 1637- Three Puritans are publicly mutilated for criticizing Laud's reforms, there is widespread sympathy. 1637-39- Charles Scotland, sparking a rebellion and subsequent war. Charles's army is defeated by the Scots. 1640- Charles forced to recall parliament to pay for tyears of complaints on him, he dissolves parliament but forced to recall again after situation with Scotland worsens, the period is known as 'Long parliament issues the 'Grand Remonstrance' - a list of complaints against Charles. January 1642- Charles demanded the arrest of 5 MP's, the House is not supposed to enter the Commons, and he had brought soldiers with him. Charles apologized for his intrusion but announced 5 MP's were guil Commons refused to help and Charles left. Charles faced such hostile back-lash from the people of London that he fled to Hampton Court Palacyears.	where MP's expected to be regularly consulted. ey without parliament, James dismisses parliament jut consent. This happens a few times until James gst many in England. 1626-29- Charles argues with a poal Rule'. 1633- Charles appoints William Laud as y'to raise funds without consulting parliament, wants to introduce new English prayer book into he war with Scotland, parliament unleashes 11 parliament'. 1641- Parliament passed the Triennial noney to pay for army to deal with the situation but e of Commons refused, so the king arrived. The king ty of treason and demanded their arrest, the
2. The role of religion	In the 16th century the Reformation had resulted in Catholicism being replaced as the official state religion by the Church of England (Protestantis deeply religious Protestants who saw that the Church of England was still too catholic and believed Catholicism was an evil conspiracy intent of dindividuals should be able to have a private relationship with God, without the need of priests, the role of the clergy should be limited to conduction as stain glass were distractions and churches should be plain looking, and people should avoid alcohol, rich foods and other worldly things. Charle Protestant head of the Church of England, however, Charles belonged to the High Church, a branch of Protestantism which was closer to Cathol marrying a French catholic Princess. Charles appointed William Laud as Archbishop of Canterbury, laud was a leading Arminian with the belief the Feformation. Charles favored the return of colorful stained glass windows and images. These moves infuriated the Puritans and the King and henry burton, William Prynne and John Bastwick published pamphlets criticising the King's marriage and Lauds reforms. They were arrested in 1637 Charles did not realized his religious views and punishments of those who disagreed with them were driving a wedge between himself and his subj	estroying Protestantism. Puritans believed thát: ng sermons and reading scripture, decorations such es and religion— Charles came to the throne as the icism. He reinforced his closeness to Catholicism by at the Church should roll back many of the changes d Church faced growing criticism. Three critics— and sentenced to have their ears cut off in public.
3. Why couldn't Charles get on with parliament?	In 1629 he argued with parliament about his religious views and dismissed them, ruling without for 11 years, a period of time known as the 'Personce to exercise what he believed was his God-given right to rule. The court became a substitute government, allowing him to rule without parliament. of income. Ship money was a tax usually paid by coastal areas for protection against foreign navies. Charles expanded it to areas inland. Those we very unpopular as it hadn't been agreed by parliament. The Short Parliament: Charles faced a storm of criticism when he recalled parliament after hour long speech. Furious, Charles dissolved parliament after 3 weeks. Charles was then forced to recall parliament after he failed to defeat the Sagainst English rule. The Reformation had forced Irish Catholics to become protestants and they were furious. Charles wanted to recall parliament refused and instead passed 'the Grand Remonstrance'. It was a summary of parliament's criticisms of the King. Charles ordered the MI 1642—they refused. Charles arrived at the House of Commons with 300 troops and tried to seize them but John Pym had fled. Charles travelled to the Civil War.	Ship money: Charles soon needed bigger sources who refused to pay were imprisoned. The tax was erill years. MP John Pym criticized Charles in a 2 cots. Irish Rebellion: In 1641, Irish Catholics rose up to ask for money to send an army to Ireland.
4. Roundhead or Cavaller	Not everyone chose who they were going to fight for. It depended on which army got to their village first. The rich lords usually fought for the King Wales, Devon, Cornwall and Somerset. Parliament was most popular in the South, especially London and other large towns and ports. The decisio issued orders that the army support him. This put officers in a terrible dilemma. Puritans also fought for Parliament. The Parliamentarians were nicknown cavaliers. This meant soldier on horseback. They wore steel breastplates over their leather coats. They tried to break through enemy lines by firing officers or proposed on each side joined the pikemen or musketeers. Soldiers without horses were known as infantry. You couldn't easily tell one side fit cloth. The Royalists wore red and the Parliamentarians wore yellow. Pikemen: Their job was to stand at the front of the whole army with a five metropy they would dug one end into the ground and pointed the other at the charging enemy. The Musketeers: A musket was a big clumsy gun. It was so on. The gun was fired by using a match to light the gunpowder. A ball or shot could travel up to 400 metres. It was a slow and dangerous job.	n divided families. Both Parliament and Charles amed 'roundheads'. The Royalists were known as their pistols and cutting down men with their swords. rom an-other so the soldiers wore bright strips of e long pole, a pike. As the enemy approached.
5. What was new about the New Model Army?	The first great battle of the civil war, Edgehill in 1642, ended in a draw. The leaders of the Parliamentarians were shocked at how poorly equipped turned to an MP called Oliver Cromwell. They gave him the job of training a new set of troops. This was England's first professional army and it was troops live according to a very strict set of rules. Officer positions were filled with men who had shown their talent on the Battlefield. Laws of the arm death penalty, no man was to swear against God, if any man fled, he would be killed. Soldiers: Cavalry: attacked the weak points of the enemy, Infantry: These included pikemen and musketeers. Pikeman's pikes were very effective against cavalry. Muskets were devastating at close range, canons. They could demoralize the enemy and punch holes in the infantry.	called 'The New Model Army'. Cromwell made his my: Criticism of Cromwell or Parliament carried the wore light armour and carried swords with pistols.
6. The Battle of Naseby	The New Model Army had its chance to enter battle on 14th June 1645 near the village of Naseby. On one side, stood Charles I with the royalist ar The parliamentarians were under the command of Oliver Cromwell. The Royalists began well when the cavalry, under the command of Prince Ruy Roundheads. However, their mistake was to charge for the Roundhead's baggage train which contained their supplies and treasure. Meanwhile, Roundheads but Cromwell's highly trained and well-disciplined army stood their ground. Cromwell seized his opportunity and launched an attack collapsed and surrendered. Charles's army was almost entirely destroyed. 1000 Royalist soldiers were killed and 4500 taken prisoner. The Battle ma	pert, successfully charged the cavalry at the the Royalist cavalry attacked the right flank of the
7.Why was Charles sentenced to death?	Charles was imprisoned on the Isle of Wight and refused to cooperate with Cromwell. Later is emerged that he had been conspiring with the Scot throne. The plan failed but many argued Charles should be put on trial for treason. There was lots of disagreement about how to treat Charles. Mosupposedly appointed by God and favored his return with limited powers. However, Cromwell and the New Model Army prevented all MPs who had the remaining 145 MPs (the Rump Parliament) issued an order calling for the trial of Charles I. The House of Commons declared it had the right to reduce the substantial of the strial in the strial part of the sales of the strial interrupted the charges being read out. Charles was barred from the remainder of the trial. He was accused of war crimes and charged with treason. Charles was sentenced to death on the 27th wore two shirts as it was bitterly cold and he didn't want people to think he was shivering from fear.	any expressed horror at the idea of killing someone ad sympathy for Charles from entering Parliament. Ule without a King. The trial did not go smoothly as es refused to plead either quilty or innocent and so
8. Was the world turned upside down?	For the next 11 years, for the first and only time in England's history, it became a republic. There was no King or Queen. Oliver Cromwell took confristrictly Puritan way: he banned swearing, dueling, horse racing and all kinds of sport; encouraged trade by making peace with France, Holland Spreformed the Poor Laws, closed theatres and many pubs, allowed Jews to return to England; reformed with the support of the army. Cromwell wap parliament, passing laws when they were not meeting. Cromwell refused to become King when parliament offered him crown, but behaved like in Palaces. England prospered but many people did not like him. A decision was made, after Cromwell's death, to invite Charles I son, Charles II to	pain; abolished the celebration of Christmas, s titled 'Lord Protector' and ruled without

Year 9 RP	PE Topic 1: Medical Ethics	Knowledge Organiser					
Topic	Knowledge						
Life & Consciousness	To create human life the sperm cell from a male and an egg cell from a female are need conception. The fertilised egg then implants into the lining of the mother's womb where a heartbeat, and after 9 weeks it starts to develop limbs. Between 10 and 19 weeks the heightening the senses. At 24 weeks it can survive outside of the womb. After 9 months (when life actually begins, Christians would argue that life begins at conception however development. According to UK law a woman cannot terminate her pregnancy after 24 survive independently outside the womb with medial intervention. There is also much debate over when consciousness begins as this marks humans from ourselves, our place in society and interact with others.	is continues to develop. At around 6 weeks the foetus has brain develops rapidly creating new neurons and 40 weeks) the baby is born. There is great debate over many people consider a heartbeat to be a key point of weeks – this is the point act which the foetus could					
The Sanctity of Life	Christians believe in the sanctity of life, that all life is holy and made by God. This is back created all humans equally in his image. Christians believe that humans are unique created conception, God knows us all individually. Life should be treated with respect and love contain the essence of God within our souls, it is not for humans to make life or death defirst gave us life. These views are evident in the case of Jodie and Mary the conjoined twere separated Mary would die. The parents refused treatment on the grounds that life leave the decision to God. The case went to the courts and a judge ruled that they sho	ations of God that are sacred from the moment of and not be abused or killed. Our bodies are special and ecisions, this judgement can only be made by God, who wins, if they remained joined they would both die, if they is sacred and should not be taken – they wanted to					
	All living organisms have DNA this contains information about the living thing and determined the state of th	nines things such as colour, shape and size. Scientists are					

leave the decision to God. The case went to the courts and a judge ruled that they should be separated. Jodie went on to live a happy life. All living organisms have DNA this contains information about the living thing and determines things such as colour, shape and size. Scientists are able to alter DNA by adding or removing information. This alters the traits of the living thing and allows scientist to get the desired end result. The organism will pass these new features onto its offspring. There is great debate around the ethics and safety of genetic engineering, some positives include: + We can alter human being to make them resistant to disease + We can make animals healthier and more productive for food consumption + We can change the DNA in crops to make them resistant to cold/ heat and need less water + We can create new medicines to beat cancer and cure diseases However negatives include: - Changing human DNA could result in a race of superhumans – conception would no longer be natural - Animals suffer due to genetic changes such as chickens so heavy they cannot stand and without feathers that causes injury - People have raised concerns about crops being dangerous for the environment and humans

- Genetic engineering could be abused to create dangerous weapons that could kill millions

Al Technology Organ Donation

Organ donation is the process of surgically removing an organ or tissue from one person (the organ donor) and placing it into another person (the recipient). There are 5 types of tissue and 6 types of organ you can donate. Donors can be living or dead (dependant on what is being donated), people can donate as a living donor, from brainstem death or circulatory death. Despite this technology 3 people every day in the UK die waiting for an organ. The main issue is either not signing up to the NHS organ register or relatives refusing donation after death. The UK has decided to introduce an 'Opt Out' system which will come into place in 2020. This means that everyone in the UK will be eligible for organ donation unless they contact the NHS and state otherwise. There is hope that this will dramatically increase the number of lives saved.

There is great debate surround the creation of AI technology. Already there have been advancements in science which have allowed robots to communicate effectively with humans and problem salve. However the issue remains—can AI really experience human consciousness? The

There is great debate surround the creation of AI technology. Already there have been advancements in science which have allowed robots to communicate effectively with humans and problem solve. However the issue remains – can AI really experience human consciousness? The Turing Test and The Global Workspace Theory both suggest that the key to real AI lies in intelligence and the ability of a machine to process information – as soon as we have the technology to do this AI consciousness will become a possibility. However others argue that consciousness is rooted in emotion, something AI could never understand. Descartes famously quoted 'I think therefore I am' suggesting that our consciousness is a gift from God – something non-physical. Therefore not something that could be detected and re-created in a laboratory.

Year 9 RPE	Topic 1: Medical Ethics	Knowledge Organiser					
Key Word	Meaning	Quotes	Topic				
Foetus	A foetus is an animal or human being in its later stages of development before it is born	'God made man in his own image' Bible	The Sanctity of Life				
Sperm	The male reproductive cell involved in sexual reproduction.	'You knit me together in my mothers					
Egg	The female reproductive cell involved in sexual reproduction.		The Sanctity of				
Conception	When the sperm meets the egg	Bible	Life				
Consciousnes	The state of being aware of and responsive to one's surroundings	'The technology itself has got enormous					
The Sanctity o	f The belief that all life is holy and made by God	potential to correct other (medical) conditions'	Genetic Engineering				
Genetic Engineering	When the DNA of an organism is altered to produce a desired trait	Prof Waseem Qasim 'I think therefore I am'					
DNA	Material which is present in all living organisms which contains genetic information	Rene Descartes 'Not until a machine can write a sonnet	Al Technology				
Organ	Is the process of surgically removing an organ or tissue from one person (the	or compose a concerto because of					
Donation	organ donor) and placing it into another person (the recipient).	thoughts and emotions felt, and not by	Al Technology				
Artificial	The theory and development of computer systems able to perform tasks	the chance fall of symbols, could we					
Intelligence	normally requiring human intelligence	agree that machine equals brain'					
The Turing Tes	A test created by Allan Turing to test a machines ability to exhibit intelligent	Professor Jefferson Lister					
Key Thinker	behaviour Ideas						
Allan Turing	Alan Turing, an English mathematician who pioneered machine learning during the 1940s and 1950s. He created the 'Turing Test' which is a method of inquiry for determining whether or not a computer is capable of thinking like a human being. Turing proposed that a computer can be said to possess artificial intelligence if it can mimic human responses under specific conditions. The original Turing Test, requires three terminals each of which is physically separated from the other two. One terminal is operated by a computer, while the other two are operated by humans. During the test, one of the humans acts as the questioner, while the second human and the computer respond. The questioner interrogates the respondents within a certain subject area, after a length of time or number of questions, the questioner is then asked to decide which respondent was human and which was a computer. The test is repeated many times. If the questioner makes the correct determination in half of the test runs or less, the computer is considered to have artificial intelligence, because the questioner regards it as "just as human" as the human respondent						
Rene Descartes	Rene Descartes a 17th century philosopher argued that nothing is more obvious and undeniable than the fact that you're conscious. In theory, everything else you think you know about the world could be a crazy illusion trying up to trick you – but your consciousness itself cannot be an illusion. He created the famous quote 'I think therefore I am' meaning the fact that he is aware of this own consciousness proves he must exist. This obeys none of the usual rules of science. It doesn't seem to be physical. It can't be observed, except from within, by the conscious person. It can't even really be described. The mind, Descartes concluded, must be made of some special, immaterial stuff that didn't abide by the laws of nature; it had been given						

to us by God.

Key Nouns

le réseau social -social network -MP3 player le lecteur MP3

le smartphone -smartphone

le texto -text

l'ordinateur -computer -mobile le portable

la tablette -tablet

la technologie -technology les amis virtuels -virtual friends

le forum -forum

-photos les photos

le documentaire -documenary l'émission -programme

la série -series

le jeu télévisé -game show

le dessin anime -cartoon la comédie -comedy

Adjectives

pratique -practical

dépendant -addicted accro -addicted

cher -expensive

utile -useful

rapide -auick

danaereux -danaerous facile à utiliser -easy to use

nouveau/ nouvelle -new

passionnant -exciting

effrayant -scary

-romantic romantique

Media and Technology

Key infinitives

partager -to share

communiquer -to communicate se faire des amis -to make friends

-to speak parler blogger -to blog lire -to read

participer -to participate

utiliser -to use

-to contact contacter -to listen to écouter

regarder -to watch tchatter -to chat

télécharger -to downland

garder le contact -to keep in touch

faire les devoirs -to do homework travailler

-to work



Times

chaque jour -every day par jour -per day tous les jours -every day le soir -in the evening

-before avant après -after

trois heures -3 hours

Useful ER verb Past Participles avoir + Past **Participle**

-listened écouté ioué -played

télécharaé -downloaded

parlé -spoke

communiqué -communicated

acheté -bought utilisé -used -shared partage

Using pouvoir (to be able to)

Je peux -I can Tu peux -you can

II/elle peut -he/she can

On peut -you can Nous pouvons

-we can

Vous pouvez Ils (elles) peuvent

-you can -they can

pouvoir + infinitive

e.g. On peut télécharger un film – you can download a film

Le corps – body parts

les dents - the teeth

le genou – the knee le pied - the foot le nez - the nose le bras - the arm le doigt -the finger le ventre - the stomach le dos - the back le cou - the neck l'épaule - the shoulder la main - the hand la jambe - the leg la gorge - the throat la joue – the cheek la coude – the elbow la bouche - the mouth les yeux -the eyes

les oreilles - the ears

Les maladies - illnesses

Qu'est-ce qui ne va pas? - What's wrong? Quel est le problème? - What's the problem? Depuis quand? - Since when?

Depuis .. jours—for ...days Depuis ...semaines—for ...weeks

J'ai mal —I am in pain..

Masc sing—au e.g. au bras
Fem sing - à la e.g à la main
Plural—aux e.g aux jambs

J'ai mal au ventre—I have a stomachache J'ai mal au dos—I have a backache

j'ai faim - I am hungry j'ai soif - I am thirsty i'ai froid - I am cold i'ai chaud - I am hot j'ai la grippe - I have the flu i'ai de la fièvre - I have a fever j'ai de la température - I have temperature ie suis enrhumé - I have cold ie suis malade - I am ill je suis fatigue - I am tired ie suis blessé - I am injured je suis déprimé I am depressed je tousse - I am coughing Je me suis cassé (e)- I've broken Je me suis coupé(e) – l've cut Je me suis tordu(e) – I've twisted Je me suis blessé(e) – I have injured

<u>Pour rester en bonne forme - to stay in good shape</u>

Je dois + infinitive - I have to
Il faut + infinitive - you must / have to bien manger eat well manger plus/moins de – eat more/less of
boire beaucoup d'eau -drink a lot of water
faire de l'exercice -exercise
éviter - avoid
les boissons gazeuses – fizzy drinks
le fast food – fast food
se coucher tôt – go to bed early
se reveiller tard – to wake up late
dormir bien – sleep well

il ne faut pas + infinitive -you must not fumer - smoke prendre des drogues - take drugs boire de l'alcool -drink alcohol

Les remèdes - remedies

allez chez le docteur - go to the doctor allez chez le dentiste - go to the dentist allez à l'hôpital - go to the hospital allez à la pharmacie go to the chemist buvez beaucoup d'eau - drink a lot of water prenez des comprimés - take tablets prenez de l'aspirine – take aspirin prenez du sirop—take syrup restez au chaud –stay warm restez au lit -stay in bed

Year 9 French La santé — Health

<u>Key Nouns (Education)</u>

la matière -subject le lycée -high school la journée scolaire -school day les élèves -the pupils

-canteen

-work

-school uniform

les élèves -the pupils les profs -the teachers

la cantine l'uniforme scolaire

les règles -rules les examens -exams les devoirs -homework

le travail

le stage -course

French Half term 2 – Life after school Year 9



Key Verbs

travailler -to work
être -to be
devenir -to become
voyager -to travel

trouver -to find chercher -to look for étudier -to study

gagner -to earn aider -to help

parler -to speak recevoir -to receive

s'intéresser à -to be interested in

se passionner pour - to be passionate about

Adjectives

bien payé well paid mal payé badly paid stressful stressant fatigant tiring gratifiant satisfyina utile useful varié varied difficile difficult facile easy intéressant interesting ennuyeux boring

Key vocab Future plans

aller en fac faire un apprentissage aller à l'université

to go to universityto do an apprenticeship

-to go to university

le boulot -job le métier -job

<u>Jobs</u>

le/la médecin
le professeur/ la professeure
le pompier
le boulanger/ la boulangère
le vendeur/ la vendeuse
le/la comptable
l'infirmier /l'infirmière
le /la collègue
le patron/ la patronne
le / la vétérinaire
le chanteur/ la chanteuse

-vet -singer -unemployed

-colleague

-doctor

-teacher

-firefighter

-shop assistant

-accountant

-baker

-nurse

-boss

<u>Future Tense</u>

au chômage

aller + infinitive

je vais
tu vas
il / elle va
nous allons

I'm going to
you're going to
he/ she is going to
we are going to

vous allez you are going to (polite)

ils (elles) vont they are going to

Key words -jobs around the house

faire mon lit - to make the bed faire la vaisselle -to wash up préparer le repas -to make a meal laver la voiture -to wash the car faire promener le chien sortir la poubelle -to take the bin out

passer l'aspirateur -to hoover

ranger ma chambre -to tidy my room

l'argent de poche -pocket money

My family and Characteristics- Key Vocab

Je m'entends bien avec... I get on well with Je ne m'entends pas bien avec ... I don't get on with

ma mère—my mum

ma soeur—my sister

ma tante—my aunt

ma grand-mère—my grandmother

mon père-my dad

mon frère-my brother

mon oncle-my uncle

mon grand-père-my grandad

II/Elle estHe/she is

assez/un peu/ très – quite/a little/very

vraiment - really

amusant(e)—funny

sportif/sportive—sporty

stricte—strict

paresseux/paresseuse—lazy

intéressante/ennuyeuse- interesting/boring

penible—embarrassing

agaçant / énervant - annoying

Describing your family

Dans ma famille il y a—in my family there is Dans ma famille il y a huit personnes—in my family there are 8 people

Je n'habite pas avec - I don't live with

Mes parents se sont séparés -my parents are separated

Mes parents sont divorcés - my parents are divorced

Il y a cinq ans je me suis démenagé avec ma mère -

five years ago I moved in with my mum

II/elle n'habite plus avec nous = he/she doesn't live with us anymore

Je me dispute mes parents - I argue with my parents.

On passe beaucoup de temps ensemble = We spend a lot of time together

Key verbs:

Comprendre = to understand
Partager = to share
Écouter = to listen
s'entendre avec... = to get on with
Aider = to help

<u>Plans for the future: conditional tense</u>

Je voudrais + infinitive—I would like to

me marier—get married

habiter seule—live alone

habiter avec des amis—live with friends

avoir une famille—have a family

avoir (3) enfants—have (3) children

avoir une bonne carrière—have a good

career

être riche—be rich

voyager partout dans le monde—travel

around the world

Views on marriage

A mon avis—in my opinion

Je voudrais me marier—I would like to get married

Il faut se marier—We must/should get married

Je ne veux pas me marier—I don't want to get married

Je pense que le marriage, c'est démodé - I think marriage is old-fashioned Je trouve que.... I think that...

Half Term 3 - Year 9 French - Relationships - Family and Friends

<u>Où j'habite – Where I live</u>

J'habite—I live

une ville – town un village – a village à la campagne – in the countryside à la côte – on the coast au bord de la mer – by the seaside dans le nord/sud/est/ouest– in the north/south/east/west C'est .. – It is

Ma ville idéale **serait**—My ideal town **would be**assez/un peu/ très – quite/a little/very
tranquil/bruyant – peaceful/noisy
propre/sale – clean/dirty
joli/laid – pretty/ugly
intéressant/ennuyeux – interesting/boring
animé/barbant—lively/dull
vieux/moderne – old/modern
L'avantage, c'est que – One advantage is that..
L'inconvénient, c'est que – One disadvantage is that..
pourtant/cependant – however

Environnement - Environment

par contre – on the other hand

Il faut/Il ne faut pas + infinitive verb – We must/must not recycler la verre/le papier – recycle glass/paper utiliser les transports en commun – use public transport aller à pied – walk faire du vélo – bike prendre une douche/un bain – take a shower/bath éteindre la lumière/ la télé – switch off the lights gaspiller l'eau – waste water économiser l'energie – save energy

Le passé composé—The perfect tense

Je suis allé(e)- I went
J'ai visité—I visited
J'ai joué—I played
J'ai fait—I did
J'ai bu—I drank

Half term 4—Year 9 French Où j'habite et l'environnement

En ville – In town

Dans ma ville, il y a un/une – In my town there is a Il n'y a pas de + no article e.g Il n'y a pas de gare Ma ville idéale aurait—My ideal town would have beaucoup de – lots of trop de – too many/much plein de - full of Une gare – a train station Un commissariat – police station Un aéroport–airport Des magasins –shops Un château – a castle Une éalise – a church Un supermarché – a supermarket Un cinéma – a cinema Une patinoire – an ice rink Une piscine – a swimming pool Un musée – museum Un collège – a school

Les activités – Activities

Une école – a primary school

On peut + infinitive verb – One/we can...
faire une promenade – go for a walk
aller au centre sportif – go to the sports centre
visiter un musée – visit a museum
faire du vélo – go for a bike ride
aller à la piscine – go to the swimming pool
acheter des vêtements – buy clothes
danser – dance
jouer aux sports – play sports

GENERAL "TRANSFERABLE" VOCABULARY
YOU WILL MEET THESE WORDS AND PHRASES VERY OFTEN!)
und = and oft = often

aber = but manchmal = sometimes
oder = or nie = never
heute = today selten = rarely
gestern = yesterday ab und zu = now and then
immer = always jetzt = now

im Frühling = in the Spring es ist/es war = it is/it was

im Sommer = in the Summer
im Herbst = in the Autumn
im Winter = in the Winter

spitze (superb)
furchtbar (awful)

Das Wetter = the weather
es regnet = it is raining schön = nice
es schneit = it is snowing kalt = cold
sonnig = sunny es hat geregnet = it rained
warm = warm wolkig = cloudy
windig = windy es hat geschneit = it snowed

You <u>must</u> kno	Key verbs w the verbs HA	BEN and SEIN
	HABEN	SEIN
Ich (I)	habe	bin
Du (you)	hast	bist
Er / sie (he / she)	hat	ist
Wir (we)	haben	sind
Ihr (you)	habt	seid
sie / Sie (they / you)	haben	sind

Remember – learn the words and HOW to use them!

Auf einem Campingplatz = on a campsite
in einem Hotel = in a hotel
in einer Jugenherberge = in a youth hostel

KNOWLEDGE ORGANISER - YEAR 9 GERMAN – HALF TERM 1 (SEPT – OCT HALF TERM)

Topic specific vocabularyDas Hotel = hotel

- Das Hotel = hotel
 Dia lucia a alla a alla
- Die Jugendherberge = youth hostel
- Der Campingplatz = the campsite
 Bei Freunden = with friends
- Das Ferienhaus = holiday home
- Die Ferienwohnung = holiday flatFür wie lange? (For how
- long)
 einen Tag / zwei Tage = one/two days
 eine Nacht / zwei Nächte =
- one/two nightseine Woche / zwei
- Wochen = a week/two weeks
- ein Wochenende a weekend
- ein Monat/zwei Monate a month/two months

Die Länder = the countries

- Deutschland = Germany
- Frankreich = FranceSpanien = Spain
- Spanien = SpainGriechenland = Greece
- Italien = ItalySchottland = Scotland
- Österreich = Austria
- England England
- Amerika = USAAustralia = Australia
- Die Türkei = Turkey

Grammar

Main grammar point: THE PERFECT TENSE – used to tell someone what YOU HAVE DONE IN THE PAST!

Learn and practise the following rules:

- You always need 3 parts the PERSON DOING THE VERB; THE HELPING VERB (HABEN OR SEIN) AND THE PAST PARTICIPLE (THE BIT YOU SEND TO THE END!)
- Regular verbs with HABEN to make the past particple, take
 the INFINITIVE, chope of the EN, add a GE to the beginning
 and a "T" at the end
 Ea. kaufen = gekauft; wohnen gewohnt; machen gemacht
- Irregular verbs with HABEN you need to learn the main irregulars including:
 sehen gesehen
 lesen gelesen

trinken getrunken
essen gegessen
finden gefunden
übernachtet übernachtet

Verbs which use SEIN – any verbs which are linked with movement / travelling – the most common ones are:
 gehen gegangen fahren gefahren fliegen geflogen bleiben geblieben schwimmen geschwommen

Some examples to help:

Ich habe die Hausaufgaben gemacht = I have done the homework

Er hat eine CD gekauft = he has bought a CD

Wir haben Pasta gegessen und Wasser getrunken = we have eaten pasta and drunk water

Ich bin nach Deutschland gefahren = I went to Germany

Wir sind schwimmen gegangen = we went swimming

GENERAL "TRANSFERABLE" VOCABULARY

YOU WILL MEET THESE WORDS AND PHRASES VERY OFTEN!)

oft = often und = andaber = but

manchmal = sometimes

oder = ornie = never heute = today selten = rarely

ab und zu = now and thengestern = yesterday

ietzt = now immer = always ziemlich = quite toll = great

furchtbar = awful sehr = verv

wirklich = really

zu = too

eine Woche / zwei Wochen = a week / 2 weeks einen Tag / vier Tage = a day / 4 days ein Wochenende = a weekend

warm = warm altmodisch = old-fashioned

heiss = hot modern = modern kalt = coldsauber = clean

schmutzia / dreckia = dirty klein = small

gross = big laut = loud

Key phrases / questions:

Ich möchte = I would like

Haben Sie..? = Do you have..?

Was kostet das? = what does that cost?

Haben Sie etwas kleiner? =Do you have something smaller?

Um wieviel Uhr ist das Frühstück / das Abendessen? = What time is breakfast / the evening meal?

Gibt es hier...? = Is there.... Here?

KNOWLEDGE ORGANISER - YEAR 9 GERMAN - HALF TERM 2 (OCT - DEC)

Topic specific vocabulary

- Topic specific vocabulary
- ein Einzelzimmer = a single room
- ein Doppelzimmer = a double room
- frei = available
- kostenios = free of charae
- pro Nacht = per night
- pro Woche = per week
- mit Frühstück = with breakfast
- mit Balkon = with a balcony
- mit Dusche = with a shower
- mit WI AN = with Wi-Fi
- ein Schwimmbad = a swimming pool
- ein Restaurant = a restaurant
- ein Fahrstuhl = a lift
- ein Kind / zwei Kinder = a child / 2 childre
- die Erwachsene = adults
- ein Problem = a problem
- mein Zimmer ist / war... = my room is / was...
- ein 7elt = a tent
- ein Wohnwagen = a caravan
- ein Platz = a pitch

Grammar

The future tense – what will you do?

To form the future, use the correct part of the verb WERDEN and the **INFINITIVE** of the other verb:

Ich werde wir werden Du wirst ihr **werdet** Er / sie / es / man wird sie / Sie werden

YOU MUST KNOW THIS VERB BY HEART! Then add the infinitive AT THE END OF THE SENTENCE: e.g.

I will go to town = Ich werde in die Stadt gehen He will watch a film = Er wird einen Film sehen

Tomorrow they will write an email = Sie werden eine Email schreiben

There are NO Irregular verbs in the future tense – so just learn the rule!

Ich möchte (I would like) ALSO sends any other verb to the end of the sentence:

Ich möchte ein Doppelzimmer reservieren = I would like to reserve

Ich möchte mein Handy **benutzen** = I would like to use my mobile Ich möchte im Restaurant essen = I would like to eat in the restaurant

Ich möchte um 8 Uhr frühstücken = I would like to eat breakfast at 8 o'clock

Ich möchte einen Tagesausflug **buchen** = I would like to book a day trip

Remember – learn the words and HOW to use them!

Auf einem Campingplatz = on a campsite / in einem Hotel = in a hotel / in einer Jugendherberge = in a youth hostel Mit meiner Familie = with my family / mit meinen Freunden = with my friends / mit meiner Schule = with my school /mit meinen Eltern = with my parents

General vocabulary:

und = and oft = often

aber = but manchmal = sometimes

oder = or nie = never heute = today selten = rarely

gestern = yesterday ab und zu = now and then

jetzt = now immer = always

weil = because (sends the verb to the end) denn = because (doesn't move the verb)

Time phrases

jede Woche every week jedes Wochenende every weekend jeden Monat every month einmal / zweimal pro Monat

once / twice per month

zum Geburtstag for my birthday

Die Geschäftethe shopsder Musikladenthe music shopdie Buchhandlungthe book shopdas Modegeschäftthe clothes shopdie Konditoreithe cake shop

die Drogerie the chemist's das Sportgeschäft the sportshop die Metzgerei the butcher's

das Kaufhaus the department store

die Bäckerei the bakery

<u>Grammar point</u> - When we want to say "in" a shop, we use "in" in German too but the word for "the"" changes:

der Musikladen BUT in DEM Musikladen (in the music shop) die Konditorei BUT in DER Konditorei (in the cake shop) das Kaufhaus BUT in DEM Kaufhaus (in the department store)

Note: **IN DEM** is often shortened to **IM**

YEAR 9 GERMAN – KNOWLEDGE ORGANISER HALF TERM 3 – POCKET MONEY AND SHOPPING

Vocabulary

das Taschengeld pocket money Sportschuhe trainers

Computerspiele computer games

ein Fahrrad a bike Make-up make-up CDs / Musik CDs / music

Bücher books Kleidung clothes

ein Handy a mobile phone ein MP3 Spieler MP3 player Schmuck jewellery

die Sporttausrüstung sports equipment Was trägst du? What do you

wear?

Ich trage... I wear / I am

wearing...

das / ein T-shirt the / a t-shirt das / ein Hemd the / a shirt

der / ein Rock the / a skirt

der / ein Pullover the / a jumper die / eine Hose the trousers die / eine Jacke the jacket das / ein Kleid the dress die / eine Mütze the / a cap der / ein Mantel the / a coat

der / ein Mantel the / a coat die Schuhe shoes die Socken socks die Stiefel boots

bequem / modisch / altmodisch / gestreift / kariert / lang / schwarz / modern / glitzernd / neu

comfortable / fashionable / old-fashioned / striped / checked / long / black / modern / shiny / new

Wichtige Verben!

You need to learn these verbs and be able to use them in ALL 3 TENSES:

INFINITIVE PAST PARTICIPLE

kaufen = to buy gekauft sparen = to save gespart

bekommen = to get (receive) bekommen

verdienen = to earn
ausgeben = to spend
tragen = to wear
kosten = to cost
helfen = to help
arbeiten = to work
gehen = to go
einkaufen gehen = to go shopping

einkaufen gegangen*

Verbs in bold are IRREGULAR

Grammar point:

To say what you wear we use the ACCUSATIVE case. So, if you use a masculine noun (der), the word for "a" changes and the adjectives need to add an ending too:

Ich trage **einen** bequem**en** Mantel = I wear / I am wearing a comfortable coat

Ich trage **eine** schwarz**e** Jacke = I am wearing a black jacket

Ich trage **ein** modern**es** Kleid = I am wearing / I wear a modern dress

^{*} These verbs use SEIN to form the past tense

KNOWLEDGE ORGANISER YEAR 9 - HALF TERM 4 SCHOOL AND STUDIES

GENERAL VOCABULARY

School subjects

Englisch - English

Mathe - Maths

Naturwissenschaften - Science

Biologie - Biology

Chemie - Chemistry Physik - Physics

Deutsch - German

Spanisch - Spanish

Französisch - French

Latein - Latin

Geschichte - History Erdkunde - Geography

Religion - RS

Sport - PE Kunst – Art

Werken – DT

Hausaufgaben - homework

Opinions

langweilig - boring

interessant - interesting

nützlich - useful nutzlos - useless

schwierig/schwer - difficult

einfach – easy

doof/dumm/blöd - stupid

streng – strict nett – nice

lustig – funny

<u>Uniform</u>

Schuhe – shoes

Socken – socks

eine Strumpfhose – tights

eine Hose – trousers

einen Rock - skirt

ein Hemd – shirt

eine Krawatte – tie eine Jacke – blazer

ich trage - I wear wir tragen – we wear

man muss....tragen – we have

to wear

Numbers – all numbers up to

1000 – see previous KO (especially 0-60 for telling the

time)

<u>Colours</u>

See previous KO – for describing

uniform

Kleidung – clothes Sportschuhe – trainers Schmuck – jewellery

Zeitschriften - magazines

More vocab...

<u>Timetable and routine</u>

In der ersten/zweiten/dritten/vierten/fünften Stunde habe ich...

Ich wache um.... auf

Ich stehe um.... auf

Ich esse Frühstück um....

Ich verlasse das Haus um...

Ich gehe zu Fuß

Ich fahre mit dem Bus/mit dem Rad

Grammar

Opinion phrases: Modal verbs:

Mein Lieblingsfach ist... man kann = you can }

Ich liebe ... man muss = you must } + the infinitive

Ich mag... man soll = you should } (this goes to the Ich mag nicht... END of the sentence)

Ich hasse...

e.g. man kann Deutsch **lernen** = you can learn German

Verb second:

In den ersten Stunde habe ich...

In der Schule **trage** ich...

Verb last after 'weil':

Ich mag Deutsch, weil es interessant **ist** Ich hasse Mathe, weil es schwierig **ist**

Conditional:

Meine ideale Schule hätte – my ideal school would have Meine ideale Schule wäre – my ideal school would be

Mein idealer Schultage hätte – my ideal school day would have

Mein idealer Schultag wäre – my ideal school day would be

Comparatives:

(Mostly) Adjective + er, e.g. langer, kürzer, länger etc

Key questions

Was ist dein Lieblingsfach? – what's your favourite subject?

Wie findest du....? – what do you think of...?

Was hast du in den Stunde? – what have you got period...? Kannst du deine Uniform beschreiben? – can you describe your uniform?

Wie findest du deine Uniform? – what do you think of your uniform? Um viel viel Uhr...? – at what time do you....?

KNOWLEDGE ORGANISERYEAR 9 - HALF TERM 5 Food Shopping & Eating out

GENERAL VOCABULARY

Food and drink
Äpfel – apples
Bananen – bananas

Käse – cheese
Kuchen – cake

Birnen – pears Marmelade – jam Champignons – mushrooms Schinken – ham

Erbeeren – strawberries Wurst - sausage Karotten – carrots Vorspeise – starter

Kartoffeln – potatoes Hauptgericht – main meal

Kirschen – cherries

Orangen – oranges

Tomaten – tomatoes

(Wein)trauben – grapes

Nachspeise – dessert

Frühstück – breakfast

Mittagessen – lunch

Abendessen – dinner

Zwiebeln – onions
Fisch – fish
Weights/measures

Salat – salad Gramm - g
Pizza – pizza Kilogramm – kg
Tomatensuppe – tomato soup 100 Gramm

Torte – cake 500 Gramm

Eis – ice cream 5 Euro bitte = 5 euros please Hähnchen – chicken

Mineralwasser – mineral water
Orangensaft – OJ

Numbers – all numbers up to
1000 – see previous KO

Key phrases

Brot – bread

Brötchen – bread roll

Bitte sehr? – can I help you? Haben Sie..? – do you have..? Was möchten Sie? – what would you like? Ich möchte – I would like Sonst noch etwas? – anything else? Das ist alles – that's everything Das macht/kostet... – that comes to...

Ich habe......gegessen/getrunken/gekauft/bekommen/gewählt Das war... - that/it was Das hat...gekostet – it cost...

Grammar

Present tense verbs (some examples)

Ich kaufe/gehe/esse/trinke (gern/nicht gern) Er/sie käuft/geht/isst/trinkt (gern/nicht gern) Es gibt – there is/are

Perfect tense verbs (some examples)

Ich habe....gekauft/gegessen/getrunken Sie hat...gekauft/gegessen/getrunken Ich bin....gegangen Er/sie ist...gegangen Es war...

Ich möchte...kaufen = I would like to buy....

Remember: when you use Ich möchte, the next verb is in the infinitive and must go to the END of the sentence!



More vocab...

Eating out ein Café = a café ein Imbiss = a snack bar ein Restaurant = a restaurant die Karte = the menu Darf ich..? = may I...? Ich möchte... = I would like... als Vorspeise = as a starter als Hauptgericht = as a main meal als Nachtisch = as a dessert ein Getränk = a drink Ich möchte = I would like Entschuldigung = Excuse me Meine Speise ist...= My meal is... zu heiss = too hot zu kalt = too coldzu salzia = too salty

ein Tisch für... = a table for Vegetarier(in) = vegetarian



zu heiss = too hot empfehlen = to recommend zu kalt = too cold furchtbar = awful zu salzig = too salty unfreundlich = unfriendly der Kellner / die Kellnerin = the waiter / waitress

Tiempo libre - Free Time

¿Qué haces en tu tiempo libre? -What do you do in your free time? Bailo - I dance Chateo por internet - I chat online Uso las redes sociales - I use social media Escucho música - I listen to music Hago deporte - I do sport Juego con el ordenador - I play on my computer Mando mensajes - I send messages Salgo con mis amigos - I go out with friends Voy de compras - I go shopping

Opiniones - Giving opinions

(no) Me gusta(n) - I like (no) Me interesa(n) - I'm interested in Me encanta(n) - I love Odio - I hate el fútbol - football la música - music la natación - swimming Los videojuegos - videogames Las hamburguesas - hamburgers

Preguntas - Questions

¿Qué te gusta - what do you like? ¿Qué no te gusta? What don't you like? ¿Adónde vas? - Where are you going? ¿Qué vas a hacer? - What are you going to do? ¿Cuándo? - When? ¿Cual es tu programa favorito? -What' your favourite TV programme? ¿Por qué? - Why?

Tiempo libre - Free time

Voy - I go/ I am going
Al centro comercial - to the shopping centre
Al cine - to the cinema
Al estadio - to the stadium
Al parque - to the park
Al salón recreativo - to the amusement arcade
A la bolero - to the bowling alley
A la discoteca - to the disco
A la playa - to the beach
A casa de mi amigo/a - to my friend's house

La tele

Programas de....

Música

Deporte sport

Tele-realidad reality tv

Un concurso game show

Un documental documentary

Una comedia comedy

Una telenovela soap opera

El telediario news

El tiempo weather

FUTURE TENSE

voy a - I am going bailar - to dance ir de compras - to go shopping jugar al fútbol - to play football tomar el sol - to sunbathe ver un partido de fútbol - watch a football game ver una película - watch a film ver la tele - watch the ty

HT1 Year 9 Spanish Mi Vida

Las Películas - Films

Las películas de...
acción - action films
amor - love films
artes marciales - martial arts
ciencia-ficción - science fiction
guerra - war films
terror - horror films
del Oeste - Westerns
Las comedias - comedies
Los dibujos animados - cartoons

Adjetivos - Adjectives

aburrido - boring divertido - fun educativo - educational emocionante - exciting informativo - informative interesante - interesting malo - bad tonto - silly

REMEMBER - Adjectives MUST agree with the noun

Useful Words

Nunca - never Generalmente - generally Normalmente - normally Luego - then/later Primero - first Después - then

NACIONALIDADES

Argentino Argentinian Chileno Chilean Colombiano Colombian Scotish Escoces Spanish Espanol Estadounidense US Citizen Gales Welsh Inglés English Irlandés Irish Mejicano Mexican

PAISES: Scotland **ESCOCIA** England **INGLATERRA** Wales **GALES** Ireland **IRLANDA** Spain **ESPANA** Germany **ALEMANIA** France **FRANCIA** Italy ITALIA **Portugal PORTUGAL** Greece **GRECIA FRANCIA** France Cuba **CUBA** Mexico **MEJICO** Argentina **ARGENTINA** Chile CHILE COLOMBIAindia Colombia **Pakistan Pakistan**

La tele

Programas de....

Música - music

Deporte - sport

Tele-realidad - reality tv

Un concurso - game show

Un documental - documentary

Una comedia - comedy

Una telenovela - soap opera

El telediario - news

El tiempo - weather

PAST TENSE:

Fui a Cuba I went to...
Escuché música I listened to..
Jugé al fútbol I played..
Mandé mensajes I sent...
Monté en bici I rode a bike
Tomé el sol I sunbathed
Visité monumentos I visited
OPINION:

Lo pasébien / fenomenal/bomba Mal —-l had a good/great ...time

Preguntas

¿Cual es tu nacionalidad? ¿A dónde vas ? ¿A dónde fuiste? ¿Qué hiciste? ¿Cuánto tiempo pasaste ? ¿Qué tal lo pasaste ?

Useful Words

Nunca never
Primero first

Después then
Luego ""

Generalmente generally
Normalmente normally
Con with
Como ? How ?
Adonde? where ?
Que ? What ?
Quien? who ?

A dónde vas?
Al Centro commercial - shopping center
Al cine - cinema
Al estadio - stadium
Al parque - park
Al salón recreativo - youth centre
A la discoteca disco

A la playa beach

HT2 Year 9 Spanish Holidays & travel

LA COMIDA Y BEBIDA: **EN EL RESTAURANTE:** PAST TENSE: (key verbs) De primer plato.. starters Carne —meat Comer -comí - to eat-l ate De Segundo palto.. Main course un bocadillo-sandwich Beber-bebí - to drink-I drank De postre dessert Tomar—tomé to have* -I had Verduras - veg Quiero I want Desayunar –desayuné I had breakfast Cereales - cereal Un helado de chocolate-chocolate ice cream Almorzar—almorcé I had lunch Fruta - fruit Una paella - a paella Cenar—cené - I had dinner Galletas - biscuits Tengo hambre -I am hungry Hacer— hice to do -. I did Magdalenas - muffin Tengo sed—I am thirsty Ir—Fui - to go—I went Pasta - pasta La cuenta - the bill Ver—vi—to watch—I watched Patatas fritas - chips * to have food/drink Pescado - fish Pizza - pizza zumo de naranja - orange juice Pollo - chicken **NÚMEROS TO 1000 MEALS** tostadas - toast Cien 100 EL desayuno Breakfast Ensalada - salad 200 Doscientos La comida Lunch té - tea **Trecientos** 300 el almuerzo Lunch café - coffee Cuatrocientos 400 La merienda Afternoon snack cola cao—- chocolate drink 500 Quinientos dinner La Cena **EN EL MERCADO:** Seiscientos 600 Un kilo de.. A kilo of ... Setecientos 700 Un carton de leche - carton of milk 800 Ochocientos quinientos gramos de.. 500 grams 900 Novecientos Jamón - ham mil 1000 un chorizo - chorizo Manzanas - apples una barra de pan - a loaf of bread **Useful Words** Peras - pears Por favor - please una botella de agua - a bottle of water Nada - nothina **Preguntas** Queso - cheese Nunca - never Qué desayunas/almuerzas/cenas? una lechuga - a lettuce Algo something Qué quieres? Tomates - tomatoes Mucho - a lot Para beber? Uvas - grapes Ayer - yesterday

HT2 Year 9 Spanish - Healthy lifestyle (food/drink)

Zanahorias - carrots

Algo más?

Qué vas a tomar?

Qué comiste/bebiste?

Anteayer—the day before yesterday

Esta mañana—this morning

El fin de semana pasado-last weekend

La ropa: Clothes Qué llevas? What do you wear? Hevo I wear Un jerseys a jumper a dress Un vestido Una camisa a shirt Una camiseta a t- shirt Una falda a skirt Una gorra a cap Unos pantalalones a trousers Unos vaqueros jeans Unos zapatos shoes Unas botas boots Unas zapatillas de deporte trainers Una sudadera hoody

Moda: Fashion
A cuadros - squared
A lunares - spotty
A rayas stripy
Estampado check
De manda larga—long sleeve
De manga corta - short sleeve
Sin mangas - sleeveless

Adjetivos:

Barato/a

Bonito/a Beautiful
Caro/a Expensive
Comodo/a Comfortable
Feo/a Ugly
Incómodo/a Uncomfortable
Corto/a Short

Cheap

Largo/a Long guay Cool

Los colores

Amarillo yellow blue azul white Blanco gris grey Negro brown brown marron Rojo red naranja orange Rosa pink verde green

<u>Preguntas</u>

Que/ Cual prefieres ...? Quéte gusta mas ? Dónde se puede comprar..? Dónde hay un/una.....?

Year 9 Spanish - HT4 Clothes & fashion

TIPOS DE TIENDAS:

Una cafeteria Una carniceria— butchers
Una joyeria - jewellers
Una libreria - book shop
Una pasteleria - cake shop
Una tienda de música - music shop
Una tienda de ropa— clothes shop
Una zapateria - shoe shop

Useful Words

De vez en cuando –now again A veces - sometimes Siempre - always

Normalmente - normally

tengo I have necesito I need hay there is/ there are

PARTES DEL CUERPO:

Los ojos—eyes
La cabeza—head
Los oidos—ears
La garganta—throat
El brazo—arm
La espalda—back
La rodilla—knee
El pie—foot
La pierna—leg
El estómago—stomach
La mano—hand

SÍNTOMAS DE ENFERMEDADES:

Estoy enfermo - I am ill
Estoy cansado - I am tired
Tengo fiebre - I have a temperature
Tengo una picadura— I have been stunned
Tengo una quemdura - burn
Tengo diarrea - diarrhoea
Tengo tos - I have a cough
Tengo gripe - I have the flu
Tengo catarro - I have a cold
Tengo vómitos - sickness

REMEDIOS:

Usar esta crema Use cream
Tomar pastillas Take tablets
Tomar aspirinas Take aspirins
Beber agua Drink water

FRECUENCIA:

Una vez al dia Dos veces al día Tres veces al día Por la manana Por la tarde Por la noche Once a day
Twice a day
Three times
In the morning
In the afternoon
In the evening

(key verbs) present/past/future

Ir - to go Ver—to watch

Hacer— to do -.

Salir ——-to go out

Deber—you must

<u>Preguntas</u>

Qué te duele ?
Desde hace cuanto tiempo?
Qué te pasa?
Se encuentra bien?
Tienes una dieta sana ?

Year 9 Spanish - HT5 Healthy living

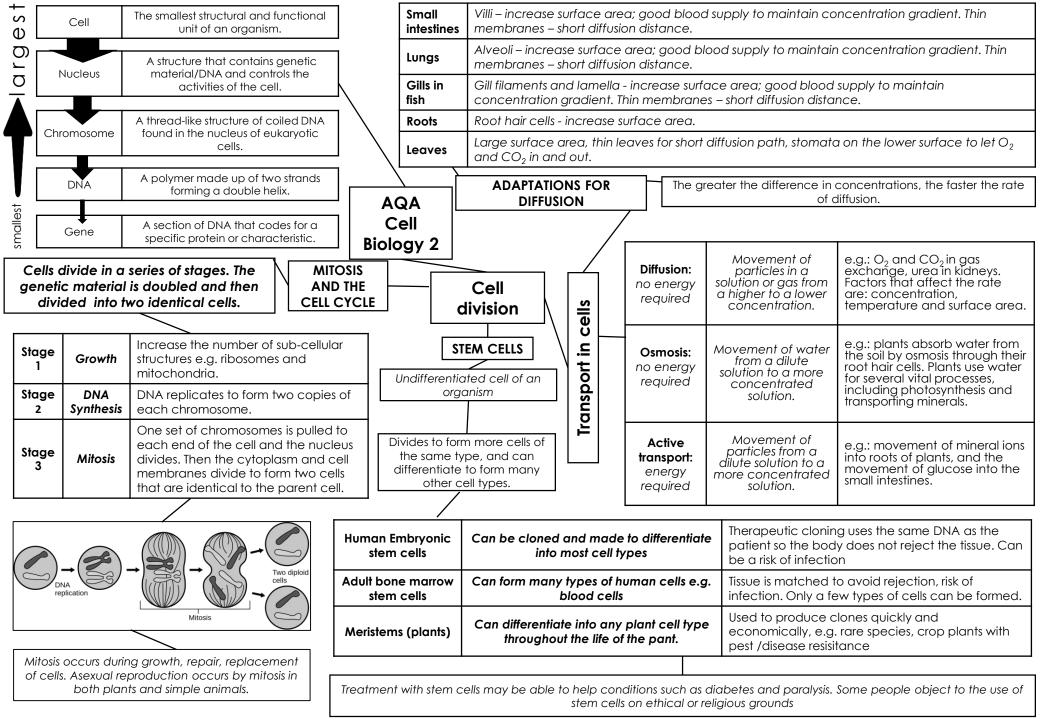
OPINION:

Sano —healthy
Hacer deporte
Dormir 8 horas..
Comer mas fruta y verdure
Comer comida basura
Fumar cigarillos
Tomar drogas
Beber alcohol
Beber muchos refrescos
Comer menos caramelos

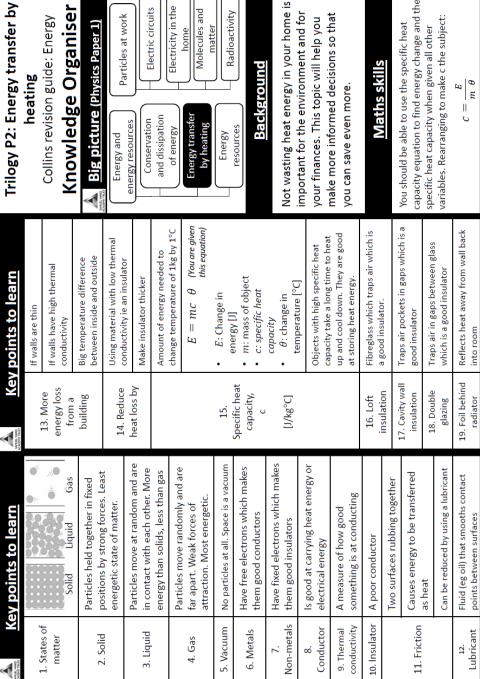
Useful Words

Por favor - please
ME GUSTA
ME GUSTA MUCHO
ME ENCANTA
PREFIERO
NO ME GUSTA
NO ME GUSTA NADA
ODIO
COMIDA SANA/MALSANA
VIDA SANA / MALSANA

	cytoplasm	Site of chemical reactions in the	cell enzymes to co	ance containing atalyse the reactions	R	1		cell membrane	Semi-pe	ermeable		s the movement of s in and out of the cell
	nucleus	Contains genetic material/ DNA	codes for prot		S		Ī	bacterial DNA	1	cleus floats cytoplasm	Controls	the function of the cell
	cell membrane	Semi permeable		novement of and out of the cell	0	\vdash	_	cell wall	NOT mad	le of cellulose	Supports a	nd strengthens the cell
		Site of protein		lated to an amino acid	0			plasmid	Small rin	ngs of DNA	Contai	n additional genes
	ribosome	synthesis	chain to make		6	+				chemical		ubstance containing
Animal cell	mitochondrio	Site of respiration	to function	is released for the cell		,		cytoplasm	reaction	s in the cell	enzymes to	catalyse the reactions
Plant cell	E	ukaryotes: comple	x organisms	A	QA			Вас	terial cells a	re much smalle	r than plant	and animal cells
	Contains all the parts of animal cells, plus extras Cell Structure Prokaryotes: simpler organisms				nisms							
	Permanent vacuole		eeps cell turgid, c ugars and salts in			animal cells		nerve	***	Carry electrical signals	Long brar	nched connections and sheath.
	Cell wall	Made of Scellulose Site of	Supports and strer the cell Contains chloro					sperm	S	Fertilise an egg	Acrosome	ed with a long tail. e containing enzymes. nber of mitochondria.
How a cell	<u></u> <u>_</u>	photosynthesis	absorbs light en			Specialised		muscle	0	Contract to allow movement	Contains mitochon Long.	a large number of dria.
Undiffer	entiated call ar	e called STEM cells	differen	entiation /						movemen	Long.	
Animal of differential	ution	Plant cell differentiation	on Magnifi		lised cells	ıt cells		Root hair		Absorb water and minerals from soil		projections to increase ne surface area.
Early stage developm Only for repo replacem	ent. air and	All stages of life c The stem cells of grouped together meristems	are	M = image I Real size of object A	Specialised	ised plant		Xylem		Carry water and minerals	Cell wa	PIRATION - dead cells. Ils toughened by lignin. vs in one direction.
		Feature	Light (optical) microscope	Electron microscop	ре	Specialised		Phloem		Carry glucose	Cells hav	OCATION - living cells. re end plates with holes. rs in both directions.
ahiastiya lans	eyepiece lens	Radiation used	Light rays	Electron beams]					
objective lens	X	Max	~ 1500 times	~ 2 000 000 times						PREFIXES	\$	
A STATE OF THE STA	focusing wheel							Prefix		Multiple		Standard form
		Resolution	200nm	0.2nm				centi (cm)		1 cm = 0.01 m	1	x 10 ⁻²
stage		Size of microscope	Small and portable	Very large and no portable	ot			milli (mm)		1 mm = 0.001 n		x 10 ⁻³
light source		Cost	~£100 for a	Several £100,000 to	£1	L	r	micro (μm)	_	1 μm = 0.000 001		x 10 ⁻⁶
			school one	million plus			ı	nano (nm)	1r	nm = 0.000 000 00	01 m	x 10 ⁻⁹



Service Nation	ey points to learn	Ke	Key points to learn	Trilogy P1: Conservation and
	Chemical energy		Equal to the energy transferred.	dissipation of energy
1. Energy	Kinetic energy	9 Work	When a force moves an object.	Collins revision guide: Energy
stores [J]	Gravitational potential energy	done [J]	Work done = Force x distance moved	Knowledge Organiser
	Elastic potential energy		W = F x s [J] [N] [m]	Big picture (Physics Paper 1)
2. Chemical energy [J]	Transferred during chemical reactions eg fuels, foods, or in batteries	10. Energy flow diagram	Show energy transfers eg for a torch lamp:	Energy and Particles at work
	All moving objects have it.		Chemical → Light + Heat	Conservation Electric circuits
3. Kinetic energy [J]	k.e = 0.5 x mass x (speed) ² $E_k = 1.5 \times m \times v^2$ [J] [kg] [m/s]	11. Conservation of energy	Energy cannot be created or destroyed. It can only be transferred usefully, stored or dissipated.	Elect Mo
4 Gravitational	Stored in an object lifted up.	12. Dissipated energy [J]	Wasted energy, usually spread to the surroundings as heat.	Energy Radioactivity
energy [J]	$g.p.e = mass \times g \times height$ $E_p = m \times g \times h$ $[J] [kg] [N/kg] [m]$		The extension of a spring is proportional to the force on it.	Packground Background
5 Flactic	Energy stored in a springy object	13. Hooke's Law and k the	The gradient of E	Energy is the capacity of something to make
potential energy [J]	e.p.e = 0.5 × spring × (extension) ² constant (You are $E_e = 75 \times k \times e^2$ given this	spring constant	or this graph of is known as k, the spring being obeyed constant.	something happen. The Universe and everything in it is constantly changing energy from one form into another.
6. Energy can	Heating (thermal energy always		Proportion of input energy transferred to useful energy.	<u>Maths skills</u>
be transferred	flows from hot to cold objects) An electrical current flowing	14. Efficiency	means no wasted energy.	You should be able to recall, use and rearrange all the equations on this page except number 5.
by	A force moving an object		energy energy	g is Earth's acceleration due to gravity. It has a
7. Useful energy [J]	Energy transferred to the place and in the form we need it.	15. Power [W]	Energy [J] transferred in 1 second. $\label{eq:power} \text{Power [W] = Energy [J]} \div \text{time [s]}$	constant value of approximately 9.8m/s² You need to remember the units for each quantity. They are in [1 next to equations.
8. Wasted energy [J]	Not useful. Eventually transferred to surroundings	16. Wasted power [W]	Total power in – useful power out	You should be able to calculate the gradient of a Force – extension graph.



Trilogy P2: Energy transfer by

Collins revision guide: Energy

Knowledge Organiser

important for the environment and for make more informed decisions so that your finances. This topic will help you

You should be able to use the specific heat capacity equation to find energy change and the specific heat capacity when given all other variables. Rearranging to make c the subject:

$$c = \frac{E}{m \theta}$$

SAPER, WARD	Key points to learn	Sept. WHICH	Key points to learn	Trilogy P3: Energy Resources
	Substance that we burn to release	7.	Take apart and make safe at the	Collins revision guide: Energy
1.Fuel	heat energy	Decommission	end of its life	aosiacea O espolmony
	Stores chemical energy		Kinetic energy of the air/water	Nilowiedge Organiser
	Coal, oil and gas	8. Wind and	turns turbines	Big picture (Physics Paper 1)
	Remains of ancient organisms.	wave power	Unreliable as both need wind	OROCUTANOS
2. Fossil	Millions of years to form.		Renewable	Energy and Particles at work
siani	Are non-renewable		Use heat energy from deep	
	Release carbon dioxide when burnt	9. Geothermal	underground instead of fuel	Conservation Electric circuits and dissipation
3. Non-	Are used quicker than they are	power	Not available everywhere	of energy Electricity in the
renewable	made. So will run out.		Renewable	Energy transfer home
	Made quicker than they are used. Will not run out	;	Water stored high up in dams then released to spin a turbine	by heating Molecules and matter
4.	These energy sources are renewable:	10. Hydroelectric	Very quick start-up time	resources Radioactivity
Renewable	Biotuel Wind and Wave	and Tidal power	Can destroy habitats for animals	Backers
2	Geothermal		Renewable	packground
	 Hydroelectric and Tidal Solar 		Use light or heat energy from the	It is hard to imagine a World without
			Sun	electricity. It reaches into every aspect of
	ruel made from living organisms eg vegetable oil, ethanol, wood	11. Solar power	Unreliable as needs sun	our lives. But where do we get the energy
	Are considered carbon-neutral		Renewable	to make it from؛ Will they run out? Have سوئون موخ علي التام
	because CO ₂ released is balanced by amount taken in by photosynthesis		Energy stored in nucleus as nuclear energy. Uranium or Plutonium.	we got a backup plant: Additional
5. Biotuel	Reliable – can even be used fossil		Heat release in reactor core	
	luei powei stationis		High energy yield	to make electricity, we usually spin a turbine which we then attach to a generator. Making
	Reduces Iarid available for 100d growth	12. Nuclear fuel	Very slow start-up time as	that turbine spin, is the problem
	Renewable		potentially dangerous	The most common way is by burning fuels to
	Releases carbon dioxide which		Fuel and waste is radioactive	boil water, then shooting the steam at the
6. Burning fuels	contributes to the greenhouse effect and global warming.		Very expensive to set up and decommission	turbine. But there are issues with this, as you will find out.

Trilogy: Molecules and matter

Collins rev guide: Particle model of matter

Knowledge Organiser

Temperature when liquid turns into

12. Boiling

Amount of space something takes

up. Measured in m³

point

Temperature when solid turns into liquid. Same as freezing point.

11. Melting

Amount of matter in something.

Measured in kg

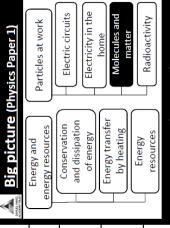
1. Mass, m

Key points to learn

point

Key points to learn

₫



Energy needed to melt 1kg of solid into liquid

16. Specific latent heat of

Mass per unit volume. Measured

in kg/m³

3. Density,

Q

fusion

Energy needed to boil 1kg of liquid into gas

17. Specific latent heat of

mass

density =

vaporisation

Temperature and kinetic energy of

particles stays constant.

18. At state

An object that has a higher density An object that has a lower density than the fluid will float

4. Floating

than the fluid will sink

5. Sinking

Happens at any temperature Solid turns straight into gas

6 Evaporation Sublimation

changes...

Internal energy increases due to an

increase in potential energy as particles move further apart

Temperature when liquid turns into solid. Same as melting point.

14. Freezing

point

Volume of an irregular object can be found

a cuboid = $w \times d \times h$

2. Volume,

>

Volume of

by dropping in a liquid and measuring

displacement.

Energy transferred when a substance changes state but temperature doesn't change

15. Latent heat

Temperature when gas turns into liquid. Same as boiling point. gas. Same as condensation point.

Condensation

point

Background

The particle model is widely used to predict the behaviour of solids, liquids and gases. It helps us spacecraft. It even explains why it is difficult to make a good cup of tea high up a mountain! to design vehicles from submarines to

Maths skills

densi t∳ Volume [kg] $\frac{\Lambda}{m} = d$ [kg/m³]

All solid

All solid

Particles move at random and are in contact with each other. More

9. Liquid

energy than solids, less than gas

All liquid

temperature

All Jiquid

temperature

19. Heating and cooling

Particles held together in fixed positions by strong forces. Least

Solid

∞

energetic state of matter.

All gas

All gas

(You need to

mass

remember

Latent heat: Energy = massx speciflatenheat

 $E = m \times L$

Caused by particles hitting surfaces.

Increases when temperature

increases

pressure

20. Gas

Particles move randomly and are far apart. Weak forces of attraction.

Most energetic.

Gas

10.

time

time

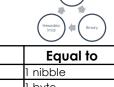
given this) (You are [kg] [J/kg] Ξ

Component 2 computer science

Key terms	Definition
Encryption	Files that are encrypted have been altered using a secret code and are unreadable to unauthorised parties.
Caesar cipher	The Caesar cipher , also known as a shift cipher, is one of the oldest and simplest forms of encrypting a message.
Cryptography	The art of writing or solving codes.
Cipher	Put (a message) into secret writing; encode.
Plain text	Text that is not written in code.
Denary/ decimal	Numbering system that uses base 10 (0-9) our normal numbers that we use every day.
Binary	Numbering system that uses base 2 (0s & 1s) this is the only language a computer understands.
Hexadecimal	Numbering system which uses base 16 (0-9 and A-F) these are used to represent colours and code.
Binary logic	Processing based on the binary numbering system.

Decimal	Binary	Hexadecimal
(Base 10)	(Base 2)	(Base 16)
0	0000	0
1	0001	1
2	0010	2
3	0011	3
4	0100	4
5	0101	5
6	0110	6
7	0111	7
8	1000	8
9	1001	9
10	1010	A
11	1011	В
12	1100	С
13	1101	D
14	1110	E
15	1111	F

Units of storage



Size	Equal to
4 bits	1 nibble
8 bits	1 byte
1024 bytes	1 kilobyte
1024 kilobytes	1 megabyte
1024 megabytes	1 gigabyte
1024 gigabytes	1 terabyte
1024 Terabytes	1 petabyte

Caesar Cipher

ABCDEF

Named after Julius Caesar, it is one of the oldest types of ciphers. It is considered a weak method of cryptography, as it is easy to decode the message owing to its minimum security techniques.

Advantages of using a Caesar cipher include:

Use of only a short key in the entire process

- Requires féw computing resources

Disadvantages of using a Caesar cipher include:

- Simple structure
- Frequency of the letter pattern provides a big clue in deciphering the entire

Common pseudocode notation

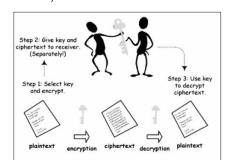
There is no strict set of standard notations for pseudocode, but some of the most widely recognised are:

- INPUT indicates a user will be inputting something
 OUTPUT indicates that an output will appear on the screen
- WHILE a loop (iteration that has a condition at the beginning)

- FOR a counting loop (iteration)

 REPEAT UNTIL a loop (iteration) that has a condition at the end

 IF THEN ELSE a decision (selection) in which a choice is made
- any instructions that occur inside a selection or iteration are usually indented



Logic Gates







В	$A \wedge B$	А
T	T	T
F	F	T
T	F	F
F	F	F

-A	Α
F	T
Т	F
	•

Binary conversions

128	64	32	16	8	4	2	1

Remember: to convert from denary to binary you would turn the switches on if the number fits into the column by placing a 1 if the numbers doesn't fit then it is a 0.

Т

Hexadecimal to Binary

Convert A5 in hexadecimal to binary

A = 10 in denary ten in binary is:

8	4	2	1
1	0	1	0

5 = 5 in denary 5 in binary is:

-		-	
8	4	2	1
0	1	0	1

Joining them both together = 10100101

Make sure you put them in the correct order!

the switches that are on (1) Converting from hex to denary

Remember: to convert from

binary to denary you only add

Put the first number into a binary nibble and then put the second number into a nibble.

Put the two nibbles together Convert to denary/decimal

What is the denary value of hex value 2D?

- Find the number into a nibble: 2 = 0010 and D = 1101
- Put the two nibbles together:
- 00101101
- Convert to denary/decimal:
- 32+8+4+1 = 45

Binary to Hexadecimal

45 in binary is 32 + 8 + 4 + 1

13 III 5 III al 7 13 02 · 0 · 1 · 1							
128	64	32	16	8	4	2	1
0	0	1	0	1	1	0	1

Split this into two nibbles and treat each as a 4 bit binary number

			•					
8	4	2	1	8	4	2	1	
0	0	1	0	1	1	0	1	
2 denory = 2 hex					13 denary = D hex			

Denary to Hexadecimal

235 denary number

Step - convert to binary: 235 in binary is 128 + 64 +32 +8 +2 + 1

1 1 4 4	28	64	32	16	8	4	2	1
1		1	1	0	1	0	1	1

Step 2: Split this into two nibbles and treat each as a 4 hit hinary number

8	4	2	1	8	4	2	1
1	1	1	0	1	0	1	1
12 4				11	danamı -	D hav	

Year 9 Multimedia

Visualisation diagrams <u>Purpose of a visualisation diagram:</u>

- Plan the layout of a still image in a visual manner
- Show how the finished item may look **Content of a visualisation diagram:**
- Multiple images and graphics showing size
- and positionColours and colour schemes
- Colours and colour schemes
 Position and style of toyt
- Position and style of textFonts to be used
- Annotation providing more detail

Work plans Purpose of a work plan:

- Provide a timescale for the overall project to be completed
 To map out against time for all the different
- aspects of the project
- Content of a work plan:

 Tasks
- ActivitiesDurations amount of time a task is expected
- to take
- Timescales how long the project will take
 Milestones key dates when a section is
- completed
 Deadlines date when something has to be done by
- Resources what is needed
- Contingencies back up plan, extra time if needed

Target audience Who is the final product intended for? Categories:

- Age need to be clear about the age group. (E.G. 6-12, 12-18, 18-40, 40+)
- (E.G. 6-12, 12-18, 18-40, 40+ • Gender
- Location local, national, international
- Ethnicity background, culture, race, religion, language

Research

- Primary sources: the information is obtained first hand from an original source
- Secondary sources: the information is obtained second hand where somebody else has created the data

When you analyse two or more existing websites you have browsed,
you can normally comment on:
House style – How the website uses image, colour, etc. to portray their organisation.

- Audience Who the website is aimed at.
- Size How many pages there on the website (try to find something called a 'site map').
- Techniques What design skills were used in producing the web pages.
- Search You can look at search engine rankings when you search for a website and you can look at the accuracy of a search box on the website itself.

File formats

Video File Formats	 MPG - Compressed file formats MOV - small file size MP4 - fats loading online
Audio File Formats	 MP3 (compressed / small file sizes / good for devices) AIFF (uncompressed / high quality / Mac only) WAV (uncompressed / high quality / Windows only)
Image File Formats	 JPG (lossless compression; photography) PNG (lossless compression; photography) TIF (large file sizes / Posters / high quality printing) PDF (un-editable/ Documents) GIF (small file sizes/ Online / web buttons)

Client requirements

Whether you are creating something for yourself or for a client, your project will have a set of client requirements.

Purpose of client requirements:

- Provide the media developer with outline information and any constraints (timescale)
- Clear statement of what is to be produced

Content of client requirements:

- Statement of what media product is needed
- Purpose of the media product
- Target audienceContent
- Timescale
- Restrictions
- · House style

Storyboards Purpose of a storyboard:

how a media project will look along a timeline
• Provide a graphical illustration of the

Provide a visual representation of

sequence of movements

• Provide guidance on what scenes
to film or create

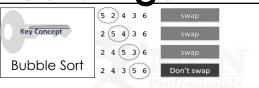
Content of a storyboard:

- ImagesLocations
- Camera shot types and angles
- Camera movement
- Shot length and timings
- Snor length and timingLighting
- Sound

Year 9 Algorithms

Key Words

Algorithms Sorting **Bubble Sort**



Array After First Pass 2 4 3 5 6 **Advantages** Simple to write the code for.

Unsorted Array (In sorted array) The data is sorted in the same memory location that it is held, so

Element at right position

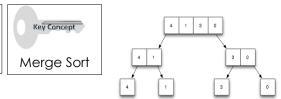
vou don't need much extra memory to run the algorithm. Disadvantages

Simple to understand.

One of the slowest ways to sort a list. For example, if the list becomes ten times larger than before, it takes almost a hundred times longer to sort. So this method of sorting is very sensitive to the length of the list.

Key Words

Algorithms Sortina Merge Sort



Merge sort – a list is split into individual lists, these are then combined (2 lists at a time).

To merge lists:

- Split all elements into individual lists.
- Compare the first element in both lists.
- Put the smallest into a new list.
- Compare the next element of 1 list with the second element of the 2nd list.
- Put the smallest into a new list.
- Repeat until merged.

To complete a merge sort:

- Split all elements into individual lists.
- Compare the first element in both lists.
- Put the smallest into a new list. Compare the next element of 1 list with the second element of the 2nd list
- Put the smallest into a new list.
- Repeat until merged.

Advantages

It's the fastest of the three types of sort (bubble, insert, merge) It is the best option to use for long lists of data (more than 1000 long)

Disadvantages

More complicated to code compared to bubble and insert It may use twice the memory size of the list - depending on the way it's coded. This becomes important if the list is millions of items long.

Kev Words

Binary Linear Searchina Alaorithms



Linear search - Linear search looks for an item within a data set by starting with the first item in the set and comparing it to the search criteria.

If no match is found, then the next one is compared. This continues until a match is found or the end of the set is reached.

Advantages

Performs well with small and medium-sized lists

The data set does not need to be in any particular order (some algorithms need an ordered list) It doesn't break if new items are

inserted into the list. **Disadvantages**

May be too slow to process large lists or data sets If the search criteria only matches the last item in the list, the search has to go through the entire list to

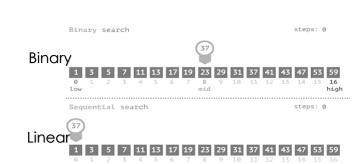
Binary Search

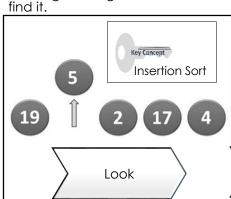
Step 1 – count how many are in the list Step 2 – add one and divide by 2 (always round up) Step 3 – The algorithm checks that the value at that places matches the value we are looking for, if not it checks whether it is larger or smaller that the value – it discards the half that doesn't contain what it's looking for

Advantages

Very good performance over large ordered lists. **Disadvantages**

Binary search can only work on an ordered list. If it is a constantly updated list with items added or removed, the list will need re-ordering every time.





Advantages

Simpler to code than a merae sort Useful for small lists that only take a very short time to sort

Faster to process a small list than using a bubble sort

Disadvantages

Not efficient with large lists - merge sort would be a better choice



Look as the 2nd

item in a list.



Compare all the items before it (in this case the 1st item) and insert the number into

the right place.



Repeat step 2 for the third, fourth, fifth, etc. items until the last number in the list has been inserted to the correct place.

