





A Knowledge-Rich Curriculum at Lymm High School

Why are we using Knowledge Organisers?

Research around memory suggests that "knowledge is sticky": the more factual knowledge you know, the easier it is to learn more in future! But there is a catch: If knowledge is studied once, and not revisited or revised, it is not stored in long-term memory.

To strengthen your memory, and ensure information is stored permanently in your long-term memory, it must be revisited frequently. This means that after one lesson, or a single test, the knowledge is not fully embedded or learned unless it is studied again.

This is why your knowledge organiser is an important part of revising the essential information you learn in class!

Use of Knowledge Organisers for revision and in class

As part of their home learning, students should be revising what they have learned recently, but also content they were taught previously. Therefore, as part of our strategy to ensure that knowledge is embedded over time, we have developed knowledge organisers, which contain the 'bedrock knowledge' necessary in each subject area. A mastery of this knowledge will ensure that students can progress comfortably to new units of learning, and can be successful in their subjects.

This information will provide the basis of our assessments and exams, and so getting into good revision habits with these resources will ensure students feel as prepared as possible.

Teachers may set specific areas of each knowledge organiser as part of homework tasks on 'Satchel one' – formerly 'Show my Homework' – however students should be using their knowledge organiser for independent revision regularly.

For mastery of your subjects, remember:

"Don't practise until you get it right. Practise until you can't get it wrong!"

As well as supporting revision at home, this knowledge organiser should be kept in students' bags, and brought to school each day so that it can also be used and referred to in lessons.

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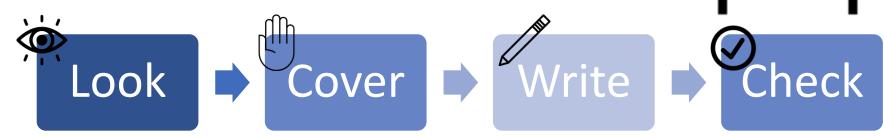
(Subjects are arranged alphabetically)

3	How to use your Knowledge organiser
4	Tier 2 Vocabulary
5	Art
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31	German
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47	Religious Studies
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How to use your knowledge organiser:

Recommended strategies (<u>don't</u> just read or highlight – **get active**!):



- Create mind maps
- Create flash cards
- Write out key points on post-it notes and place somewhere visible so you see and review them regularly
- Write your own quiz questions based on your knowledge organiser leave until the next morning, next day, or next week to see how well you have retained the information
- Get someone else to test you
- Use key vocabulary from your KO in sentences
- Use the formulae, vocabulary lists, facts, processes etc on your KO to help you complete homework tasks
- Draw diagrams and flow charts of key information
- Summarise each section into your own words what are the MOST important facts or details in each box?
- "Just a minute" time yourself for 60 seconds. Can you talk about this topic or explain it to someone else without stopping for a whole minute?
- Draw images/symbols to represent the different concepts and vocabulary
- Teach someone else about this topic. Research suggests we retain even more information when we teach a topic than when we learn it or revise it.

Tier 2 Vocabulary – General academic vocabulary for success across all subjects

List 2

left out

for

ensure (v)

ethnicity (n)

excluded (v)

fund (n/v)

imposter (n)

justification (n)

legislation (n)

maintenance (n)

maximum (n)

parameters (n)

perceive (v)

principal (adj)

labour (n)



alternative (n)

annual (adj)

apparent (adj)

attributes (n)

authority (n)

commitment (n)

consent (v)

consumer (n)

core (n/adj)

dimensions (n)

distribution (n)

despite (prep.)

economic (adj)

another option

clearly understood

List 1

yearly

qualities

promise

customer

the person in

give permission

The centre/central

size/measurements

the spread of something

Even though/in spite of

to do with wealth and

money

charge/expert/power

"The limits of my language are the limits of my world" - Ludwig Wittgenstein

make sure of something

race/background/culture

a stock of money/to pay

Someone pretending to be

someone or something

they are not

repairs/upkeep

The most

boundaries

Think/believe

most important

reason

laws

work

List 3

beliefs

higher role

important

points

coming after

bear/survive

particular subject

famous/important

limited/controlled

Looked for/wanted

A brief statement of the main

Complicated/related to a

take on/begin something

factually correct/acceptable

what's currently popular

advertise/raise someone to a

principles (n)

promote (v)

restricted (adj)

significant (adj)

sought (v)

summary (n)

subsequent (adj)

technical (adj)

undertake (v)

withstand (v)

valid (adj)

zeitgeist (n)

prominent (Adj)

YEAR 9 KNOWLEDGE ORGANISER - ARCHITECTURE

Recording from **Grades of Pencils** Observation Primary source observational drawing: drawing something real in front of you. Secondary source observational drawing: drawing something from



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



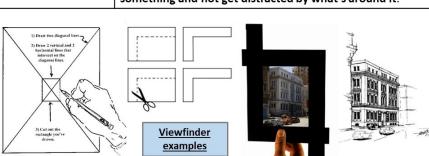








Architecture	The art and practice of designing and making buildings
Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.
Shade	The mixture of a colour with black, which increases darkness.
Tint	The mixture of a colour with white, which increases lightness
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
Enlarge	Making something bigger. Usually you will select a small section and enlarge it to a larger scale.
Viewfinder	A viewfinder is a simple square or rectangle cut out of card that you can look through. Using a viewfinder helps you to focus on something and not get distracted by what's around it.





YEAR 9 KNOWLEDGE ORGANISER - ARCHITECTURE

Mixed Media	The use of two or more media together.
Annotation	A note by way of explanation or comment added to a text or diagram.
Artistic Independence	Be able to comment on a piece of artwork and understand how that piece of art work has been created. Identifying what materials have been used and the stages of creation.





Ian Murphy:

- UK based artist
- Originally inspired by the northern industrial landscape that surrounded him.
- · Creates, drawings, paintings and prints.

http://www.ianmurph yartist.com/

Colour Theory:



Exploring Ian Murphy's work

· Scan QR code to view Ian Murphy's work and watch him create a piece of work.

· When mixing and blending colours and creating colour palettes

for your work. Do not forget the colour wheel.

· Scan QR code to view complex colour mixing.





or even media you choose to use).

your page. Try to make

your page reflect the artists

style (through use of colour

What makes a successful

artist research page?

Artists name (title)

 Imagery of the artists work · Annotation and your own opinion (facts about the artist as well as analysing the artists work) Your own drawings or 'mini studies' of the artists work. Consider presentation of

You must include:

When designing a piece of artwork you must:

- Use primary research (drawings/photographs) as starting points.
- Use artists styles to inspire
- Be creative with composition.
- · Try and test every section of your piece before you create it.



Scan here for further guidance on colour theory





Proportion

Scale

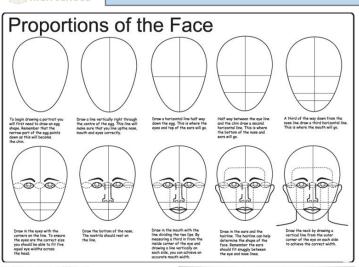
YEAR 9 KNOWLEDGE ORGANISER - PORTRAITS

LYMM

Pose

Focus

YEAR 9 KNOWLEDGE ORGANISER - PORTRAITS



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

Scan here to view drawing a portrait...





What makes a successful

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Artists name (title)

· Imagery of the artists

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Consider presentation

(through use of colour

or even media you

of your page. Try to

the artists style

choose to use).

artists work.

You must include:

work

work)

You need to consider: Background Lighting Aperture

Brno Del Zou

- Brno Del Zou is a French artist born in 1963.
- He creates 'photo sculptures' of faces.
- He uses photographs taken from different angles and various poses. Brno Del Zou then builds up many layers of photographs to create a distorted portrait.





Cubism A movement in art (began in Paris in 1907), especially painting, in which perspective with a single viewpoint was abandoned and use was made of simple geometric shapes, interlocking planes, and, later, collage. Figurative Art Figurative art can be defined as any type of art where the subject matter is recognizable from the real world, i.e., it shares a "likeness". **Technique** a way of carrying out a particular task, especially the execution or performance of an artistic work or a scientific procedure The process or technique of laying on paint **Impasto** or pigment thickly so that it stands out from a surface.

Pablo Picasso

- Pablo Ruiz Picasso was a Spanish painter, sculptor, printmaker, ceramicist, stage designer, poet and playwright who spent most of his adult life in France.
- Born: 25th October 1881
- Died: 8th April 1973
- He was a founder of the movement Cubism.
- Also famous for his 'Blue' and 'Rose' period.

Can you remember the key points you MUST include to make your artist research page successful?

Click on this QR code to visit The Student Art Guide to see examples of GCSE sketchbook pages.





A tone is produced either by the Tone mixture of a colour with grey, or by both tinting and shading..

A portrait is a representation of a particular Portrait person. A self-portrait is a portrait of the artist by the artist

> Proportion refers to the relative size of parts within a whole. In this case, the whole can be a single object like a person's face.

> Scale refers to the size of an object (a whole) in relationship to another object (another whole).

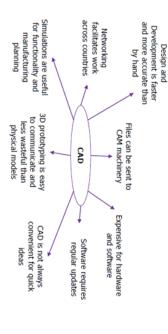
These are typically eyes, nose, mouth, ears **Features** (the senses). These can also be unique features i.e. freckles or a scar.

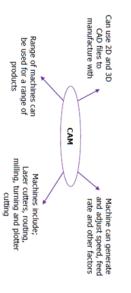
Characteristics Traits of a persons i.e. friendly, chatty Portrait Photography

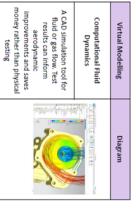
M

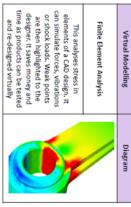
Computer Aided Design & Computer Aided Manufacture:

7











This is a computer-based scanned barcode system to track product sales. Any low stock items are automatically ordered and recording trends of sales. Customer data can also be gathered for marketing e.g. loyalty cards	Electronic Point of Sale (EPOS)	Electronic Data Interchange
		Diagram

Production, Planning and Control (PPC)

Computers are used to; plan and control production, organise component availability and co-ordinate suppliers An efficient supply chain network (SCN) is vital to ensure the flow of materials. This is especially useful in JIT

A Master Production Schedule (MPS) software carries out lots of functions, including ordering low stock items, delivers components to production lines at precise times, scheduling workers, networking departments and coordinating suppliers and customers.

Social, Moral, Cultural and Environmental Factors in Design & Technology

Sustainable Materials and Ethical Problems

Companies are becoming aware of their corporate social responsibility (CSR) when designing and making products, E.g., Lego Group are trying to use 100% renewable energy and have a target of only using sustainable materials by 2030.

Some SME issues that have arisen for companies include; sweatshop and unethical use of labour, toxic chemicals released into developing countries water and soil, safety failures in energy production, etc.

Some good practice has also become more common, including; use of FSC materials, addressing slave labour issues, use of safety schemes, using Fairtrade products, etc

Cultural Acceptability

Exclusive design is where a product (or range) is specifically designed for a group of people, E.g. baby

Inclusive and Exclusive Design

Inclusive design is where products and services are accessible to as many people as possible without the need for specialist design.

This is in line with the Disability Discrimination Act (DDA) 1995.

Examples include accessible entrances to buildings, wide and tall doorways, automatic doors, adjustable office workstations, hearing induction loops in theatres, pedestrian crossings with raised burnps and sensory feedback, etc.



Companies need to be aware of offensive products and marketing to different countries. Offense and outcry will have an effect on a businesses reputation and finances.

Examples of issues to be aware of, include; religious imagery, ception by different genders, country traditions and customs, social justice movements, legality, cultural significance of colour, etc



Social Problems

Designers can encourage social change and positive social behaviour in their designs. E.g. child-friendly litter bins to promote good habits and 'black boxes' in cars to monitor and reward good driving habits.

Innovative design has also helped those in poverty and difficult living ituations e.g., wind-up torches for families in developing countries with no access to electricity and 3D printing of prosthetics, medical equipment and bone implants for medical care.

IKEA have put forward several initiatives including; accessible furniture and accessories for Disabled customers called 'Thisables' and 'Better Shelter' flat-pack emergence housing for refugees

Fairtrade

The Fairtrade organisation negotiates with buyers to secure fair prices for the farmers/ producers of the goods (in developing countries) as well as their ethical treatment.

Qualifying products display the mark, so customers know they are supporting Fairtrade. Examples include; cotton, chocolate, bananas, coffee, etc



The 6 R's

		,
6 Rs of Sustainability	Meaning	
Reduce	Minimising waste, energy and materials used in manufacture and transport of products	Less packaging on products, buying from local suppliers, having factories closer to retailers, etc
Reuse	Using the product, or its parts, for another purpose	Plastic bottles can be used for craft projects, refilled with other liquids, made into bottle rockets for science experiments in schools, etc
Recycle	Using parts and materials to be broken down and processed into a new product	Plastics, metals, papers and boards being processed to stock forms in recycling centres and returned to manufactures to make new products from
Rethink	Considering alternatives to current manufacturing solutions	Customers considering travel – cycling to work or driving, or designers reconsidering material choices and choosing plastic alternatives
Repair	Fixing and maintaining a product rather than throwing it away	Replacing phone screens, repairing tears in clothing, designers ensuring its easy for the customer to repair at home, etc
Refuse	Not buying or supporting designs that have a large environmental impact	Not buying products that use an excess of plastic or excess of packaging, etc

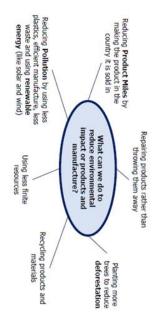
Using Sustainable Materials and Components

Designers have an ever-increasing responsibility to design products that have minimal environmental impact and must consider:

- How to conserve materials
- How to conserve energy during manufacture
 The products are as sustainable and environmentally friendly as possible
 Total carbon footprint
 The total product miles

Sustainability is maintaining our planet and its resources and making a minimal negative impact

		Polymers (Textiles)	Metals	Plastics	Finite Resources Will run out of eventually
Leather	Cotton	Natural Timbers	Boards	Paper	Infinite Resources Can be re-grown and re-bread. Will not run out of



Design & The Environment: Sustainability

Sustainability is maintaining our planet and its resources and making a minimal

Non-Renewable Energy Sources
Will run out of eventually Nuclear Coal Gas 0 negative impact Renewable Energy Sources
Will not run out of Geothermal Hydro Tidal Solar Wind

Social and economic benefits	Little to no waste	Reduces operational costs	Generally require less maintenance than traditional generators	Sustainable	Advantages of Renewable Energy
costs associated with new technologies	Currently more expensive than traditional energy due to large contra	Cannot be stored in large quantities	Often relies on weather which can be unreliable and inconsistent	Difficult to product large quantities	Disadvantages of Renewable Energy

Life Cycle Assessment

This is when a designer looks at the environmental impact a product makes over its life time and how it could be reduced.

Including:

- Impact of materials
- Impact of processes
- Impact of packaging
- Product Miles (how far a product has to travel to get from factory to consumer)
- Impact while in use
- Impact when disposed of (6Rs)



Impact of Packaging

Designers and manufacturers need to consider factors that use the optimum amount of packaging to protect and preserve products and prevent waste. E.g.:

- Making packaging lightweight
 Using recycled content
 Making the packaging recyclable or reusable
 The use of refils and concentrates
 Using minimal packaging materials
 Charging for items like supermarket carrier bags

Circular Economy

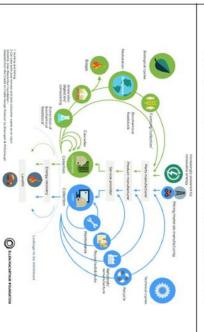
The circular economy is a cradle-to-grave approach in the product life cycle. There are two 'nutrient' types:

- Biological nutrients Organic, non-toxic, materials that can simply be composted and can safely re-enter ecosystems.
- Technical nutrients man-made materials are designed to be used repeatedly, and at the same time high quality with minimal energy.

This economy will:

- Work against the unsustainable 'take, make dispose' culture
 Reduce use of finite resources
 Reduce waste

- Deliver a more competitive UK economy
 Help reduce environmental impact of product manufacture and consumption



lechnology

Adhesives & Joining Methods:







What are they?

A substance used to stick things together

they are to achieve their maximum grip. Some areas may need to be covered in masking Preparation: All adhesives need the material to be clean, dry and free from oil and dust if tape to prevent the glue from spreading.

roughly (usually done with an abrasive paper Some adhesives require the joint to be keyed. This means that the joint should be made

Name Material	ial	Drying Time	Use
Hot Glue stick Wood, (glue gun) plastic.	metal,	On cooling.	Is waterproof but weak, but only suitable for modelling or temporary fixings.
		1	It is heated in a special gun and comes out from the nozzle.
PVA Wood		4-24 Hours	Gives a strong joint. It comes in a liquid form.
Liquid Solvent Therm Cement 'Tensol'	Thermoplastic	10 Minutes	It is waterproof and gives a medium strength joint. It comes in a liquid form. The joint needs to be held together while the glue dries.
Synthetic Resin Wood 'Cascamite' 'Extramite'		6-8 Hours	Is waterproof and gives a strong joint. It comes in a powder form. The joints must be held together while the glue dries.
Contact Adhesive Wood, 'Evostick' plastic.	Wood, metal, plastic.	INSTANT	It is waterproof and gives a medium strength joint. Ideal for plastic laminates to chipboard for kitchen worktops. It comes in a liquid form.
Epoxy Resin Wood, 'Araldite' plastic	metal,	½ - 6 hours	Is waterproof and gives a strong joint. Equal amounts of resin and hardener are mixed together and applied with a spreader. Must be held together whilst glue dries.
Cyanocrylate Wood, 'super glue' plastic	Wood, metal, plastic	Instant	Is waterproof and gives a medium joint. It comes in a liquid form.

Sales Financial losses Innovative customers Few (if any) competitors Low sales High cost per customer Introduction Take-off Increasing sales Cost per customer falls Profits rise Increasing No. of customers More competitors Shake-out Growth Profits high Mass market Stable number of competitors Cost per customer lowest Peak sales Saturation Maturity Falling sales Cost per customer low Profits fall Customer base contracts Number of competitors Decline Time

The Product Life Cycle Chart helps companies track and predict product sales.

This is not to be confused with the life cycle assessment of products in regards to sustainability

Research and Development departments (R&D) explore and develop new ideas for companies.

Redefining and Redeveloping Products

Product Life Cycle (PLC) Chart

Companies will often employ extension strategies to maintain their sales. Examples include:

Evolution of Products	Planned Obsolescence	Technology Push	Demand/Customer Pull
This is generally caused by new technologies, manufacturing methods, materials, etc. Research and Development departments (R&D) explore and	This is where products are designed to fail and be replaced. This can be for company profit or lack of compatibility with software or lack of parts being manufactured.	Research and development costs lead to the technology push if new ideas. However, these then need to be 'sold' to consumers. E.g. Google Glass failed to be sold to consumers due to cost and privacy concerns	This is where designers respond to demand from consumers for desirable product features, E.g. colour choice and battery life in smart phones

Yr 9 Design & Technology: The Work of Others: Designers

Name	Facts	Logo	Examples
Raymond Templier	RAYMOND TEMPLIER (1891 - 1968) like many of his contemporaries in jewelry, was born to a family with a long tradition as jewelers.	7005	
Gerrit Rietveld	Gerrit Thomas Rietveld; 24 June 1888 – 25 June 1964) was a Dutch furniture designer and architect. One of the principal members of the Dutch artistic movement called De Stijl, Rietveld is famous for his Red and Blue Chair.	Germi Rieweld	***
Charles Rennie Macintosh	Charles Rennie Mackintosh (7 June 1868 – 10 December 1928) was a Scottish architect, designer, water colourist and artist. His artistic approach had much in common with European Symbolism. His work was influential on European design movements such as Art Nouveau and Secessionism.	CHARLEST	
Aldo Rossi	Aldo Rossi (3 May 1931 – 4 September 1997) was an Italian architect and designer who achieved international recognition in four distinct areas: theory, drawing, architecture and product design. He was the first Italian to receive the Pritzker Prize for architecture.	(A) ALDO ROSSI	
Ettore Sottsass	Ettore Sottsass (14 September 1917 – 31 December 2007) was an Italian architect and designer during the 20th century. His work included furniture, jewellery, glass, lighting, home objects and office machine design, as well as many buildings and interiors.	SO TI	

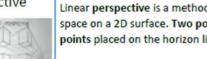
Yr 9 Design & Technology: The Work of Others: Companies

Company Name	Facts	Logo	Examples
Alessi	Alessi is a housewares and kitchen utensil company in Italy, producing everyday items from plastic and metal, created by famous designers.	ALESSI	* R
Apple	Apple Inc. is an American multinational technology company headquartered in Cupertino, California that designs, develops, and sells consumer electronics, computer software, and online services.	Ć	
Braun	Braun GmbH formerly Braun AG, is a German consumer products company based in Kronberg. From 1984 until 2007, Braun was a wholly owned subsidiary of The Gillette Company, which had purchased a controlling interest in the company in 1967.	BRAUN	7
Dyson	Dyson Ltd. is a British technology company established by James Dyson in 1987. It designs and manufactures household appliances such as vacuum cleaners, hand dryers, bladeless fans, heaters and hair dryers.	dyson	11
GAP	The Gap, Inc. commonly known as Gap Inc. or Gap, (stylized as GAP) is an American worldwide clothing and accessories retailer.	GAP	
Primark	Primark known as Penneys in the Republic of Ireland) is an Irish clothing and accessories company which is a subsidiary of AB Foods, and is headquartered in Dublin.	PRIMARK'	
Under Armour	Under Armour, Inc. is an American company that manufactures footwear, sports and casual apparel.	#	NA.
Zara	Zara is a Spanish clothing and accessories retailer based in Arteixo, Galicia. It is the main brand of the Inditex group, the world's largest apparel retailer.	ZARA	2-14-01-0

KEYWORDS & TERMS

Two point perspective

two point perspective drawing is a type of linear perspective.



Linear perspective is a method using lines to create the illusion of space on a 2D surface. Two point perspective uses two points placed on the horizon line.

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. These parallel lines converge at the vanishing point.

Isometric



Isometric drawings are 3D drawings. They show three sides, all in dimensional proportion, but none are shown as a true shape with 90 degree corners. All the vertical lines are drawn vertically but all horizontal lines are drawn at 30 degrees to the base line. Isometric is an easy method of drawing 3D images.

Oblique



An oblique sketch puts more focus on the face or front of an object while anisometric sketch puts more focus on the edge of an object. To achieve this, oblique sketches are usually drawn using a 45 degree angle

Orthographic projection (3rd angle)

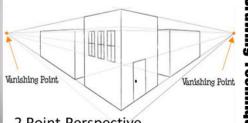


Third Angle projection is a method of orthographic projection which is a technique in portraying a 3D design using a series of 2D views.

An alternative method to Third Angle Projection is First Angle Projection. .

3rd Angle project is where the 3D object is seen to be in the 3rdquadrant.

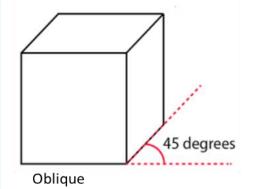


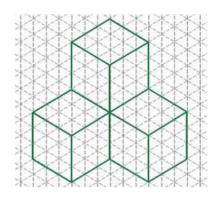


2 Point Perspective

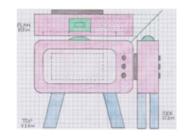


1 Point Perspective





Isometric



Orthographic Projection

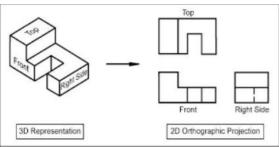
Line types used;

Thick lines for visible edges and outlines

Thin lines (half the thickness of thick lines) for hatching, leader lines, dimensions and

Dashed lines to show hidden detail.

2-4mm dash with a 1mm gap in a thin line. Centre lines to show the centre of a circle, cylinder or a line of symmetry.



1. Paper

Type	Description and uses
Layout paper	lightweight, thin white paper used for initial ideas takes colour media well low cost
Tracing paper	thin, translucent paper making copies of drawings high cost
Cartridge paper	good quality white paper available in different weights general purpose work can be used to make simple models medium cost
Bleedproof paper	smooth, hard paper used with water-based and spirit-based felt-tip pens medium cost
Grid paper	printed square and isometric grids in different sizes a guide for quick sketches and working drawings low cost

2. Selection of materials or components

When selecting materials and components considering the factors listed below:

- Functionality: application of use, ease of working
- Aesthetics: surface finish, texture and colour.
- Environmental factors: recyclable or reused materials, product mileage.
- Availability: ease of sourcing and purchase.
- Cost: bulk buying.
- Social factors: social responsibility.
- Cultural factors: sensitive to cultural influences.
- Ethical factors: purchased from ethical sources such as FSC.

What is the FSC? http://www.fsc-uk.org/en-uk/about-fsc/what-is-fsc/fsc-principles

3. Boards

St Beards			
Туре	Description and uses		
Corrugated card	strong and lightweight used for packaging protection and point of sale stands available in different thicknesses		
Duplex board	large foam-based board different finishes available including metallic and hologrammatic used for food packaging, e.g. take-away pizza boxes		
Foil lined board	 quality cardboard with a aluminium foil lining ideal for ready made meals or take away meal cartons The foil retains the heat and helps keep the food warm 		
Foam core board	 very light, very stiff and very flat. It has a white, rigid polystyrene foam centre, with smooth white paper laminated onto both faces. It is easy to cut with a knife, a mount cutter or on a wall cutter great for modelling 		
Ink jet card	 Has been treated so that it will give a high quality finish with inkjet ink available in matt and gloss 		
Solid white board	top quality cardboard made from quality bleached wood pulp. used for hard backed books and more expensive items excellent print finish		

5. Properties of paper and boards.

Туре	Weight or thickness	Uses	Relative cost (10= high)
Newsprint	50gsm	Newspapers	1
Layout Paper	60gsm	Sketches and tracing	3
Tracing Paper	70 gsm	Tracing	4
Sugar Paper	90gsm	Cheap mounting work	2
Inkjet/Photo paper	150- 230gsm	Photos/Pres entations	9
Board (Card)	230-750 microns	Model- making	5
Mount Board	230-1000 microns	Model- making, High picture quality mounting	9
Corrugated Card	3000-5000 microns	Packaging protection	5

4. Paper and Boards- Stock sizes and weights

Paper and board is available in sizes from A0 (biggest) to A7 (smallest).

The most common size is A4.
Each size is half the one before,
eg A4 is half the
size of A3.
They are also
sold by weight:

GSM – grams per square metre.

Card thickness or calliper is traditionally measured in Microns. 1000

Microns = 1mm, so the higher the value, the thicker the card or paper.

7: KEY WORD FOCUS

You should be able to explain the meaning of each of these words by the end of this rotation.

GSM Grams per Square Metre	
Microns	Thickness of paper or card.
	1000microns =1mm thickness

Year

9 Material Focus: Paper/Card

esign

an





The Art of the Monster





Language Features	Definition
Allusion	An indirect reference to something. Eg. A biblical allusion
Anaphora	Repeated phrase or word at the start of sentences.
Metaphor	A descriptive technique that makes a direct comparison between two things. Stating something <u>is</u> something else.
Pathetic fallacy	A type of personification where emotions are given to a setting, an object or the weather.
Personification	Describing an inanimate object as having human feelings.
Zoomorphism	A technique in which animal attributes are imposed upon non-animal objects, humans, and events.
Simile	A descriptive technique that compares one thing with another, usually using 'as' or 'like'.
Imagery	A technique in which the author appeals to the senses i.e. seeing, hearing, touching.
Semantic field Words from a the semantic field are part of a concategory.	
Intensifier	An adverb or adjective used to add emphasis to another adjective, verb, or adverb.
Minimiser	A word that is used to make another adjective, verb or adverb sound lesser.
Asyndetic Listing	A list connected by commas
Syndetic listing	A list joined with conjunctions and connectives. E.g. and
Oxymoron	A phrase combining two or more contradictory terms.
Juxtaposition	Two things placed next to each other to emphasise a contrast.

	The gold	
The human condition is all of the characteristics and key events that compose the essentials of human existence, including birth, growth, emotion, aspiration, conflict, and mortality. In literature it considers the meaning of life and morality.		
The innate evil of man	The concept that mankind and humanity naturally holds an evil within it. Part of our evolution as a society is how the 'beast' is tamed and humanity attains mastery over its base instincts. However, Aristotle argued that morality is learnt; that we are born with a blank slate or 'tabula rasa' and it is life experience that informs our moral compass.	
The sublime	The sublime in literature refers to use of language and description that excites thoughts and emotions beyond ordinary experience. Greatness beyond all possibility of calculation, measurement, or imitation, often inspired by nature.	

Word class	Definition	
Verb	A verb is a word or set of words that shows action (<i>runs, is going, has been painting</i>); feeling (<i>loves, envies</i>); or state of being (<i>am, are, is, have been, was, seem</i>)	
Adverb	An adverb labels how, when or where something happens (and they often end in '-ly').	
Noun	Nouns are names, places and things; they also signify imagined things like 'a ghost'; and ideas or concepts, such as 'love', 'guilt' or 'fate'.	
Pronoun	Words used instead of a noun i.e. 'he', 'she', 'they', 'it'.	
Adjective	An adjective is a describing word or phrase that adds qualities to a noun. It normally comes before a noun, or after verbs like 'am', 'is', 'was', 'appears' or 'seems'.	
Preposition	Prepositions are short words and phrases that give information about place, time and manner	

Structural Features	Definition
Cyclical	When end of the text repeats an idea/ character/ setting from the opening.
Widening or narrowing the perspective	When the writer switches from a broader overview, panoramic overview, to a more specific point of view, zoom in.
Repeated motif	When a word, phrase, is noticeably repeated throughout a sentence/ paragraph/ whole text.
Dialogue	Direct speech between characters.
Enigma ?	The mystery created within a text – the questions the audience ask
Rising action	The build up of action before the climax. Usually exemplified by an increase in tension
Climax	The most dramatic moment of a narrative.
Perspective	The point of view or voice telling the story: first or third. Character or omniscient narrator.

Analytical verbs			
Amplifies Asserts Characterises Claims	Distinguished Elaborates Embodies Emulates	Exhibits Focuses Foreshadows Highlights	Indicates Infers Informs Insinuates
Clarifies	Enhances	Identifies	Magnifies
Concludes	Entails	Illustrates	Obscures
Confirms	Establishes	Implies	Outlines
Connects	Evokes	Incorporates	Parallels

When to start a new paragraph:

New time New topic New speaker/dialogue



Psychopathy is a disorder marked by deficient emotional responses, lack of empathy, and poor behavioural controls, commonly resulting in persistent antisocial deviance and criminal behaviour.

Machiavellianism is the political theory that states politics is amoral and that any means however unscrupulous can justifiably be used in achieving political power.

Narcissism is a condition in which people have an inflated sense of their own importance, a deep need for excessive attention and admiration, troubled relationships, and a lack of empathy for others

The duality of human nature: the idea that every single human being has good and evil within them and much of life is spent conflicted between these two facets. Civilisation VS savagery.

Sentence starters: Simile As cold as stone his eyes glanced over opener the scene.	
Adverb opener	Deliberately, like a jeweller handling the a precious diamond, she set the child down.
Time connective	Finally, the clock erupted in a cacophony of chimes.
Verb opener	Stunned, the great fish retreated like a wounded soldier withdrawing from battle.



Naples the next morning.

g Prospero speaks unecci, to an audience's applause to set him free.

The Tempest Knowledge Organiser

7	7
	PLOT
Act 1	Scene 1: Violent, windy storm attacks ship with King Alonso (King of Naples), Ferdinand (his son), Sebastian (his brother), Gonzalo (his counsellor) and Antonio (Duke of Milan) aboard. Scene 2: Miranda begs her father to "allay" the storm. He then tells her and the audience the backstory to them becoming stranded on the island. This includes his betrayal and usurpation by his brother Antonio as Prospero neglected his role as Duke of Milan to study magic. Prospero uses magic to make Miranda sleep and we meet Ariel, his spritely slave. We meet Caliban, whose mutual hatred of Prospero highlights their key differences (race, status). Ferdinand and Miranda meet and fall in love instantly.
ACT Z	Scene 1: On another part of the island, we find the shipwrecked fleet. King Alonso is depressed that he has lost his son and cannot be cheered. Ariel appears (invisible) and puts all to sleep, except for Sebastian and Antonio. Antonio persuades Sebastian to kill his brother (Alonso) so he can have the power of the crown. However, Ariel wakes the King and Gonzalo before regicide can be achieved. Scene 2: Stephano (butler) and Trinculo (jester) get Caliban drunk for the first time. Caliban begs Stephano to become his new master.
Act 3	Scene 1: Prospero watches as Miranda and Ferdinand discuss their love for one another and agree to get married. Scene 2: Stephano enters, drunk and enjoying status of master over Caliban, which Trinculo thinks is ridiculous. Caliban tells them of the "tyrant" Prospero who they need to kill in order to rule the island (taking his books first as this will diminish his power). Ariel is invisible on stage and causes havoc, imitating voices to cause a humorous scene between Stephano and Trinculo. Scene 3: Prospero controls magical creatures to create an illusion of a great feast for the royal party. As they prepare to tuck in, Ariel reappears as a harpy and gives his "three men of sin" speech to Alonso, Antonio and Sebastian. Prospero praises Ariel.
Act 4	Prospero frees Ferdinand from his labours and blesses the union with his daughter Miranda. Prospero creates a magical masque in which the spirits of the Gods Iris, Juno and Ceres bless the union. Prospero dramatically interrupts the celebrations, remembering that Caliban, Stephano and Trinculo ore on route to kill him. Prospero orders Ariel to distract the conspirators with his fine clothing, which does have the intended effect on Stephano and Trinculo, much to Caliban's annoyance.
Act 5	Prospero announces that his plans are coming together and orders Ariel to bring forward the royal party. He promises to give up his magic when all is complete. Prospero forgives each in turn and reunites Alonso with his son, Ferdinand. The King is overjoyed and welcomes Miranda to the family. Prospero invites everyone back to his cell for the night before setting off for

Prospero speaks directly to the audience, discussing his loss of magical powers and need for the

Characters		
Alonso – King of Naples	Stephano – a drunken butler	
Sebastian – Alonso's brother	Caliban – a savage and deformed slave of Prospero's; a native of the island	
Ferdinand – Alonso's son	Prospero – the rightful Duke of Milan	
Antonio – Prospero's brother. Antonio stole Prospero's title as Duke of Milan.	Miranda – Prospero's daughter	
Gonzalo – the old counsellor to the King of Naples	Ariel – an airy spirit; a slave of Prospero's who earns his freedom	
Trinculo – a jester	Spirits in the service of Prospero	

The Gold		
The innate evil of man	The concept that mankind and humanity naturally holds an evil within it. Part of our evolution as a society is how the 'beast' is tamed and humanity attains mastery over its base instincts. However, Aristotle argued that morality is learnt; that we are born with a blank slate or 'tabula rasa' and it is life experience that informs our moral compass. The duality of human nature.	
The sublime	The sublime in literature refers to use of language and description that excites thoughts and emotions beyond ordinary experience. Greatness beyond all possibility of calculation, measurement, or imitation, often inspired by nature.	
Punishment as consequence for sin	An exploration of the consequences of sin (crime and punishment). Death as punishment for sin and subverting the Natural Order. Biblical teaching emphasises the importance of confession and absolution. There is the belief that if we do not repent for our sins, we will suffer damnation. What does it mean to seek retribution?	
Binary opposition of innocence vs experience	Binary opposition of innocence vs experience— Childhood innocence as the face of suffering that transforms the older. Experiences in the world (childhood suffering) lead to	

sins, suffering, cynicism and regret.

Historical and Social Context

James I – The first King of England and Scotland, he styled himself as the 'king of Great Britain'. He was a strong advocate of royal absolutism – meaning the king received their

power directly from God. This belief brought him into heavy opposition with Parliament and had dire consequences for his successors. The play was possibly written to celebrate the marriage of his daughter in 1611. James believed in, and despised, the supernatural. The role of women in a patriarchal society- Jacobean England was a society controlled by men.

Women were seen as the weaker sex and were expected to be ruled over by men. Women needed to be meek and mild, and most importantly, obedient to their fathers and later their husbands. Jacobean Travel - The play draws on travel literature of the era as travel to the Americas became more common and frequent. Most notably the play draws on the accounts of a tempest off the Bermudas that separated and nearly wrecked a fleet of colonial ships sailing from Plymouth to

Cultural attitudes - Shakespeare seems to have drawn on Michel de Montaigne's essay "Of the Cannibals," (1580) which explored how a Brazilian tribe apparently ate the bodies of their dead enemies out of honour. The name of Prospero's slave, Caliban, seems to be an anagram or derivative of "Cannibal."

Key Term Definition

A literary technique by which the full significance of a character's words or

A play or novel containing/combining elements of both comedy and tragedy.

Virginia.

Dramatic Irony

Tragicomedy

,	actions is clear to the audience or reader although unknown to the character.	
Foreshadowing	A literary device in which a writer gives an advance hint of what is to come later in the story/play.	
Comedy	A play characterized by its humorous or satirical tone and its depiction of amusing people or incidents, in which the characters ultimately triumph over adversity.	
Tragedy	A play dealing with tragic events and having an unhappy ending, especially one concerning the downfall of the main character.	
Foreboding	The feeling that something bad is going to happen: The gloomy weather gave me a sense of foreboding.	
Pathetic fallacy	The attribution of human emotion and conduct to things found in nature that are not human. It is a kind of personification.	
Usurp	To take a position of power or importance illegally or by force, such as overthrowing a king.	
Colonialism	The policy or practice of acquiring full or partial political control over another country, occupying it with settlers, and exploiting it economically.	

Key Themes

Social Status and Colonialism



Jacobean society relied heavily on the feudal system, which placed wealthy Kings and noblemen above women and the working class. Being a black, deformed character from a foreign land would have made Caliban a member of the underclass, deserving no more respect than a beetle. The ignorance of Jacobean society meant there was little chance of moving up in social status, which is why Stephano is so excited to have a servant in Caliban. Colonisation made this possible, as men of varying classes went on explorations to New Worlds that they could take over and rule, imposing their own European cultures on natives.

Prospero's thirst for knowledge about magic is what lost him his

and Magic

Supernatural

position as Duke of Milan. His cloak, books and staff symbolise his knowledge and power and are ultimately destroyed at the denouement of the play to symbolise his reintegration to civilised society. Prospero uses his knowledge to control the magical sprite Ariel to commit a number of magical acts in the name of justice, from starting the tempest to becoming a harpy. King James I would have been particularly interested, having written a book about the power of the supernatural in



Justice, Fate,

Destiny, and seeking justice for being usurped by his own brother in Milan. However, Prospero is hypocritical as he finds no injustice in usurping Ariel and Caliban and enslaving them on the island. Prospero uses magic and manipulation to encourage the audience to sympathise with him and ultimately manages to achieve justice without any bloodshed by the denouement of the play. At this point, he embraces the Christian value of forgiveness before reasserting his place as Duke of Milan.

The play is focused around the key storyline of the protagonist

Dramatic devices

Dramatic Irony – The audience knowing something that a characters doesn't. Soliloguy - One person speaking their thoughts aloud on stage but directed at themselves. Foreshadowing - Giving a hint or allusion to a future significant event.

'Deamonologie'.

Genres

Comedy

 Confusion Jesters

Weddings

 Catharsis Revenge

· Tragic arc of

the Lords

Tragedy

Catastrophe

1. Food Hygiene

What is food hygiene?

Food hygiene is about preventing food poisoning, Food poisoning bacteria grow very quickly in food if it is not handled properly, cooked properly or stored properly.

There are laws which control how food manufacturers can prepare and sell food. Statistics show that you are more likely to get food poisoning from a home -made meal than you are from a bought one.

Food poisoning

The illness resulting from eating food or drinking food/drinks containing poisonous substances including bacteria, viruses, pesticides, or toxins.

Usually need millions of bacteria to cause a food poisoning illness.

The multiplication of bacteria within the food plays an important part in the disease

How bacteria grow

In ideal conditions where there is Moisture, Food and Warmth (37degrees centigrade is ideal), bacteria can double every 10 to 20 minutes. They do this by dividing in to two. This is called Binary Fission

In order to grow and multiply germs need:

- Time
- Moisture food
- Warmth





Food poisoning is more likely to affect people with lowered resistance to disease than healthy people who might show mild symptoms or none at all.

Vulnerable people

The following are particularly vulnerable to food poisoning: -

Elderly or sick people

symptoms or none at all.

- Babies
- Young children
 - Pregnant women

Food Hygiene and Safety:

Before Cooking:

- Put your apron on 1.
- Roll your sleeves up
- If you have long hair tie it back with a bobble
- Wash your hands with warm and soapy water
- Dry your hands moisture harbours bacteria 5.

When Using The Cooker:

- Turn pan handles in away from edge of cooker
- 2. Always turn hob off when not in use
- 3. Never leave food cooking on the hob unattended
- Be careful not to let food boil dry
- Never touch an electric hob when turned off, it may still be hot
- Don't leave metal spoons in pans when cooking as they can become very hot.
- Always use oven gloves when removing food from the oven

The Tidy Tick List:

You should work as a team to make the food room clean and sparkling!

- √Clean and dry dishes
- ✓ No streaks and residue left on the glass bowls
- ✓ Clean dry work surfaces
- ✓ Clean sparkling hobs
- ✓ Clean cupboard doors and drawers
- ✓ Clean and dry sinks with no suds or residue food

High risk foods

These foods tend to be high in protein and are moisture. They can include food like: raw and cooked meat, including poultry such as chicken and turkey, and foods containing these, such as casseroles, curries and lasagne, dairy products, such as custard and dairy-based desserts like custard

tarts and cheesecake. eggs and egg products, such

as quiche, smallgoods such as hams and salamis.

The 4C's for Good Food Safety

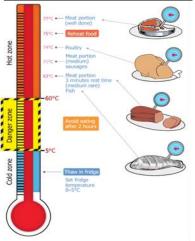
- Cooking
- Cleaning
- Chilling
- Cross contamination











Core temperatures:

Buying and Storing Food

Tips on storing food

- Check the date mark on stored foods and throw away food that is out of date.
- Store food according to instructions on the packaging.
- Keep food covered.
- Store perishable food in a refrigerator that is operating at 5°C or below – check by using a fridge thermometer.
- Store frozen food in a freezer that is operating
- at -18ºC or below and do not refreeze frozen food that has defrosted.
- Make sure food is as fresh as possible when it is bought, and that it is stored safely to reduce the risks of cross-contamination and deterioration.

Tips on buying food

- ✓ Check the date mark on food before buying it - make sure it is not out of date.
- ✓ Pack raw and cooked food separately to avoid cross-contamination.
- Pack chilled and frozen foods in a cool bag which is insulated to prevent heat loss.
- ✓ Store food as soon as you arrive home or at school.

Use-by dates are about safety

A use-by date on food is about safety. This is the most important date to remember. You can eat food until and on the use-by date but not after. You will see use-by dates on food that goes off quickly, such as meat products or readyto-eat salads. After the use-by date, don't eat, cook or freeze your food. The food could be unsafe to eat or drink. even if it has been stored correctly and looks and smells fine.

Best before dates are about quality

The best before date, sometimes shown as BBE (best before end), is about quality and not safety. The food will be safe to eat after this date but may not be at its best. Its flavour and texture might not be as good. Best before dates appear on a wide range of foods including:

- •frozen foods (such as peas, chips and ice cream)
- dried foods (such as pasta and rice)
- •tinned foods (such as baked beans and canned tomatoes)

The best before date will only be accurate if the food is stored according to the instructions on the packaging.

Food safety advice when preparing and cooking foods

Many dangerous foodborne bacteria can be eliminated from foods through safe preparation and cooking methods. The following rules should be adhered to when preparing and cooking foods

Preparing

- •Avoid cross contamination chopping boards should be coloured coded so that raw meat is never cut on the same board as fruit and vegetables. Utensils should be washed after being in contact with raw meat to avoid cross-contamination.
- •Wash fruit and vegetables all fruit and vegetables (especially root vegetables that may have excess soil) should be thoroughly washed to prevent the risk of spreading harmful bacteria such as E. coli.
- •Take care when defrosting foods ideally, plan ahead and leave enough time to defrost food. Safe thawing should be done in small amounts in the fridge. Ensure meat and poultry are defrosted on the bottom shelf. If meat is thawed in the microwave, cook it immediately. Foods should be thoroughly defrosted before being cooked.
- •Keep work surfaces clean it is important for food safety that all worktops are kept clean and free of bacteria. Use a clean cloth and anti-bacterial sprays. Ensure any surfaces are wiped clear of cleaning residue before preparing food.

Personal Hygiene



Certain bacteria can remain active on our hands for up to three hours. During this time bacteria can spread to everything we touch. This is particularly dangerous in catering environments where germs can multiply on food.

PERSONAL HYGIENE









WHEN TO WASH YOUR HANDS

Certain bacteria can remain active on our hands for up to three hours. During this time bacteria can be spread to everything we touch. This is particularly dangerous in catering environments where germs can multiply on food.

It is essential that you wash your hands regularly throughout the day and especially at the following times:

- 1. Before handling or preparing food.
- Between handling raw foods (eggs, meat, fish, poultry) and touching any other food or kitchen utensils.
- After handling raw foods such as meat fish and poultry.
- . After touching rubbish / waste bins.
- 5. After coughing or sneezing.
- 6. After touching your nose, ears, teeth or hair.
- Always make sure you wash you hands after using the toilet. The number of germs on the fingertips doubles after a visit to the toilet!



HOW TO WASH YOUR HANDS



It is surprising how many do not know how to wash their hands properly. Rinsing the fingertips under a cold tap is simply not adequate. In order to ensure that your hands are thoroughly cleansed when washing them, follow these simple guidelines:

- 1. Use warm water.
- Remove any rings and jewellery.
- Wet the hands thoroughly.
- 4. Apply soap.
- Rub the palms together vigorously for at least 15 seconds.
- Rub the fingers, thumbs and wrists.
- Pay particular attention when washing the areas between the thumb and fingers.
- Rinse until all traces of soap have been washed away.
- Dry thoroughly with a clean paper towel or electric hand dryer.
 These methods are preferable to using a towel as it can be a breeding ground for germs.

It is essential that you dry your hands thoroughly after washing. Remember that germs spread 1000 times more easily from damp hands.

Cooking

- •Temperature control when cooking food all foods should be cooked for the correct amount of time and temperature. A food thermometer is the only safe way to check the core temperature of a food to ensure safety - especially when cooking meat, poultry and seafood. The core temperature of a food should reach 75°C instantaneously. The equivalent for example 70°C for two minutes - is acceptable.
- Follow label instructions when cooking food it is important to follow the cooking instructions displayed on the label. This is especially important for foods cooked in the microwave as stirring and standing times are vital to ensure the core of the food has reached the required temperature.
- •Serving cooked foods when a food is cooked it must be kept at 63°C and covered until it is ready to eat.
- •Reheating foods When reheating a food, it should reach a core temperature of 70°C for two minutes. A food should not be reheated more than once.

Laws to protect the consumer in relation to food safety

There are organisations and laws devised by the government which protect consumers from buying food unfit for consumption through poor hygiene or safety standards.

Food Hygiene Rating

What the rating covers

Ratings are a snapshot of the standards of food hygiene found at the time of inspection. It is the responsibility of the business to comply with food hygiene law at all times. This includes:

- handling of food
- how food is stored
- how food is prepared

cleanliness of facilities how food safety is managed The business is then given a rating from 0 to 5 with 5 being the highest

rating



Environmental health practitioner

Each local area has an environmental health

department run by the council who work to support consumers in relation to food safety. They are responsible for the following:

- Inspecting a food business and auditing their food safety practices, ensuring legislation is being adhered to.
- . Enforcing any action if required, such as improvement notices, prohibition orders or penalty notices.
- Investigating food complaints and allegations of food poisoning - also investigating complaints about labelling and ensuring labels do not mislead the consumer.
- . Educating and providing food businesses with advice on correctly following food safety law.
- Responding to food alerts from the Food Standards

Laws to protect the consumer in relation to food safety

The Food Safety

This legislation ensures that all consumers achieve a high level of health protection when buying food. It protects consumers by making it an offense to sell food that:

- ·has been rendered injurious to health
- •is unfit for human consumption
- •is so contaminated that it would not be reasonable to expect it to be used for human
- •is not of the nature, substance or quality that consumers would expect
- •is labelled, advertised and presented in a way that is false or misleading

The Food Hygiene Regulations

This legislation protects consumers by checking that food has been prepared, handled, processed, packaged, manufactured, stored, transported and distributed safely and hygienically.

For example, this legislation will check that food is fit for consumption by ensuring that:

- •Any food supplied follows safety requirements and any food sold is done so in a hygienic way. For example, inspectors will examine temperatures of cold storage or holding temperatures.
- ·A food business has identified any food safety hazards and has a HACCP (Hazard Analysis and Critical Control Points) procedure to ensure safety controls are in place, maintained and reviewed.
- •The sale of raw, unpasteurised milk is prohibited. There must be a supply of clean drinking water to ensure food is not contaminated when washed.

Food Alleray

Involves the immune system

The immune system causes a reaction by mistaking a certain type of food as an invader that needs to be attacked.

When the body attacks the invader (the trigger food), symptoms occur.

Amount required to trigger a reaction:

Any amount, even trace amounts, will cause a

Length of time from ingestion of trigger food until there is a reaction:

The symptoms will be immediate. Unlike a food intolerance, complete avoidance of the offending food is the only way to prevent a reaction.

Example: Peanut allergy

Sensitivity

Food

Even trace amounts of peanuts can kill a person who has a peanut allergy

Food Intolerance

Involves the digestive system.

The digestive system causes a reaction for one of two reasons:

- The food irritates the digestive tract - The food cannot be properly digested
- Amount required to trigger a reaction:

It varies from person to person. Some people can tolerate smaller amounts of the trigger food, while others can tolerate larger amounts.

The severity of the reaction is equal to the amount ingested for each person affected with an

Length of time from ingestion of trigger food until there is a reaction:

The symptoms will come on gradually. You may even be able to take steps that will prevent any symptoms when the trigger food is ingested, such as taking a lactase enzyme pill along with dairy products if you are lactose intolerant.

Example: Lactose intolerance

Small amounts of dairy can be ingested with little or no side effects.

Food Celiac Allergy

Response

Age

Family laE, skin prick DQ2, DQ8 genetic IgG, IgA, IgE Test test; IgA, biopsy

> Diet rotation: Full avoidance of Gluten free diet

14 FOOD ALLERGENS

Diet

Type



















Symptoms are usually delayed (45 minutes to several days)

sometimes acute

Food Intolerances or Sensitivitie

Parts of the body affected

Any organ system can be affected

Symptoms are usually chronic,

Food intolerances or sensitivities

occur when the out reacts poorly

to a specific food.

Percentage of the

Population Affected

Approximately

Common symptoms include: Gas, bloating, mucus production, nausea, vomiting, headaches, stomach

cramping, and stuffy nose

Amount of food necessary to trigger a reaction



From one bite to

Food Sensitivity & Allergy?

What's the Difference Between a

Food allergies occur when the immune system mistakenly treats proteins found in a particular food or foods as a threat.

Food Allergies

Approximately

Parts of the body affected





Usually limited to airways, skin, and the gastrointestinal tract

Can affect different areas of the

body at the same time

Symptoms are usually acute, rarely chronic

Common symptoms include:

Itchy sensation in the mouth, throat, or ears; a raised itchy red rash; swelling of the face, eyes, lips, tongue, and roof of the mouth; vamiting: anaphylaxis

Amount of food necessary



1 molecule

*If you think someone is experiencing anaphylaxis (as evidenced by breathing difficulties, light headedness, eeling faint, or loss of consciousness) call 911 immediatel

Sources: pomona.edu nhs.uk precisionnutrition.com

3. Food Provenance

Food provenance – the place of origin or earliest know history of something.

Food provenance means:

- •knowing where food was grown, caught or raised
- •knowing how food was produced
- •knowing how food was transported

Food that is grown

A wide variety of foods can be grown within the United Kingdom, e.g. include:

- •apples which are grown in orchards
- •potatoes and carrots which are grown in fields
- •lettuce which is often grown in polytunnels

In the UK we have the ideal soil and weather conditions suited to these crops, while crops like bananas or pineapples require a much hotter climate.

Farmers go through many steps in order to produce the best crops they can

Preparing the soil to ensure it is ready to grow crops.

Sowing seeds, this must be done at the correct time of year to get the best crop.

The area must be kept watered and free from weeds and pests which could damage the crops.

Crops are harvested when they are ready, and are inspected to ensure they are of a high standard.

Food that is caught

Foods that are caught within the UK are fish and shellfish.

In terms of ports, the boats which constitute the sea fishing industry.

Fish which can be caught in UK waters include: mackerel, haddock, mussels, scallops, tuna

There are a number of methods which can be used to catch fish, these include:

Trawling – a method where boats go out to sea and release nets which are pulled along the seabed, catching fish as they go.

Line caught – where a fishing rod, line and bait is used to catch fish.

Pots – used to catch lobster or crab, they are placed on the seabed and collected at a later date.

These are traditional fishing methods. However, wild fish numbers are decreasing. As a result, sometimes fish are intensively farmed. This means that they are kept in big pens. Fish that are farmed include salmon and rope-grown mussels.

Food that is

reared

Farming is a massive part of the economy throughout the UK. It is one of Northern Ireland's most important industries.

There are two main types of farming, intensive and organic. Intensive is usually a large scale operation where the farmer is relying on it for his income. Organic is usually on a much smaller scale where the animals and environment are the priority.

Animals that are reared for food include:

- cows for their meat and milk
- sheep
- ➢ pig
- chickens for their meat and eggs

Protected Designation of Origin (PDO):

this designation covers products that are "produced, processed *and* prepared" in a specific area, using a particular, usually traditional, method

Food miles is the

distance food is transported from the time of its making until it reaches the consumer. Food miles are one factor used when testing the environmental impact of food, such as the carbon footprint of the food.

A **carbon footprint** is the total amount of greenhouse gases (including carbon dioxide and methane) that are generated by our actions

Animals can be reared indoors or outdoors.

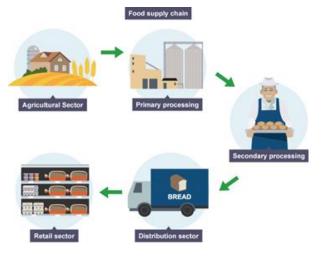
Chickens farmed intensively indoors. This is often known as **battery hen** farming. Chickens are reared in large numbers indoors to produce a high income for the farmer.

Free range chickens. Chickens are allowed to roam outside during daylight hours and are given much more space. Animal welfare is the top priority. **Quality assurance**

There are a number of **quality assurance** schemes in place to help consumers recognise that they are buying a top quality product, where the animal has been reared in the best conditions possible. These schemes assure the consumer of the quality of the product. They also help to promote high standards within the food industry.

Food supply chain

It is important for us to understand the **food supply chain**.



All your food begins its journey on a farm. This is known as the ${\bf agricultural\ sector}.$

Food is then transported to a factory to go through **primary and secondary processing**. Food may then be stored here for some time before it is required in the retail sector. From storage, food enters the **distribution sector**. This is where it is transported to the shops to be sold.

The **retail sector** is where food is sold to you, the consumer. The retail sector does not only include large supermarkets, but also small corner shops and local farmers' markets. Your fork is the final step for the food that started off life on the farm.

Food processing and production

Food processing refers to the stages raw ingredients go through in order to become something we can

 $\textbf{Food production} \ \text{refers to the three-part production of food-input, process and output.}$

Why do we process food?

Food processing must happen for a number of reasons, these include:

- ✓ making food safe to eat by killing harmful bacteria
- ✓ making food look and taste its best by adding colour after processing
- √ making foods become available that are out of season, like frozen raspberries and strawberries
- ✓ making foods easier to prepare, this is important for people who live busy lifestyles
- ✓ making foods have a longer shelf life by adding preservatives



20

Ethical reasons The main ethical reason for requiring a special diets is vegetarianism. There are two main types of vegetarians: •Vegans believe it is ethically wrong to eat animals that are reared and slaughtered for the purpose of providing food for humans. They avoid all animal products including eggs, cheese or milk. They follow a strict diet that includes only plant foods – fruit, vegetables, pulses, grains and nuts.

Lacto-ovo vegetarians will not eat the flesh of animals but they will drink milk and eat eggs because the animal
does not suffer to produce these. They also eat all of the plant food eaten by vegans.
 Cultural/religious considerations - It is also important when working in hospitality to have a knowledge of the

Cultural/religious considerations - It is also important when working in hospitality to have a knowledge of th impact of religion on food choices.

Islam

Muslims follow strict food laws and only eat food which is prepared and cooked in line with Islamic law.

Animals are slaughtered in a way that their blood is drained away. Meat produced in this way is called Halal.

Judaisr

Jewish people cannot eat anything which isn't 'kosher'. For meat to be kosher, the animal must be slaughtered according to Jewish law.

Before cooking, the meat must be clean of the animal's blood and the sciatic sinew (which runs down the spine to the leg) must be removed. They also have rules for which foods can be eaten together.

- •Fish and meat cannot be cooked or served together
- •Milk and meat cannot be cooked or served together
- •Milk and milk products are usually only served at breakfast and avoided at other meals.

Hinduism

Hindus believe that the cow is a sacred animal and will not eat beef.

Health issues that affect food choice

Factors affecting the health of individual consumers can have a major influence on their choice of food.

For example, consumers who suffer from an **allergy or intolerance** will avoid purchasing foods that contain the product they are allergic to. Someone who is allergic to nuts will not buy food products that may contain nuts, while someone who has lactose intolerance will purchase dairy free products. Consumers who want to follow a **healthy balanced diet** and reduce their risk of dietary related disorders, such as **cardiovascular disease** or **hypertension**, may choose to purchase products that are low in fat or salt.

Diabetes-Diabetes is a condition that causes the body's blood sugar level to become too high. There are two types-type 1 and type 2. There are no changes to diet or lifestyle that will lower the risk of type 1 diabetes but type 2 is often linked to being overweight and inactive. It usually develops in middle age and depending on how serious it is can be controlled by medication and a low sugar diet. People with **diabetes** will have to lose weight and become more active. They should avoid food which is high in sugar as high levels of sugar in the blood can cause damage to the eyes, kidneys and blood vessels. A low sugar diet is essential and medication may also be required.

Heart conditions-A diet high in saturated fat can cause cholesterol to build up in the arteries leading to heart disease and even a heart attack. A low fat diet is essential. Where fat is included it must be unsaturated. Oils made from plants instead of animals should be used and low fat spread instead of butter. Wholemeal bread is also recommended. Red meat should be replaced with chicken, fish or pulses. Methods of cooking using fat should be avoided. Grilling, baking, stewing and poaching are recommended.

Marketing strategies

Marketing strategies are used by food retailers to influence the choices consumers make. These include financial incentives, strategic store layout and advertising.

Financial incentives

Food retailers employ a range of financial incentives to help them attract and retain customers. These include:

- ✓ Special offers food retailers often advertise special offers in their store. For example 'buy one get one free'.

 This will attract a consumer into their store in the hope they will buy more than one item.
- ✓ Loyalty cards many food retailers offer loyalty cards, such as Tesco's Clubcard or Sainsbury's Nectar card. Consumers scan these every time they shop in store and in return they will receive vouchers or points that will allow them to get money off. This encourages consumers to shop in these stores.
- ✓ Price checking food retailers will advertise that their price is the same if not better than another big brand name. This will encourage consumers into their store as they feel they may be saving money.
- ✓ **Own brand products** large food retailers often have their own food range which is significantly cheaper than big name brands. Consumers may be encouraged into their store as they can't purchase these products¹ anywhere else. Examples include the Co-op Simply Value and Tesco Everyday Value ranges.

Personal, social and economic factors that affect food choice

Personal, social and economic factors that affect food choice Personal factors

Personal factors that come into play when choosing food might include:

Likes and dislikes – consumers tend to buy products that they like and avoid those that they don't.

4. Factors affecting Food Choice

- Age adolescents may want to purchase a different variety of item than an adult, for example adolescents may prefer sugary chocolate sweets while adults may go for high quality dark chocolate bars.
- Lifestyle consumers with children may purchase more child friendly products, for example those low in sugar, than consumers without children.
- Occupation consumers with higher paid jobs may go for brand items, while those on a lower wage may opt for own brand choices like Asda Smart Price, Sainsbury's Basics or Tesco Everyday Value.

Social factors

As consumers we are influenced by those around us, therefore we may tend to purchase what our friends or family purchase.

For example, **adult consumers** may be influenced by advice from friends on where to shop for the best value, while **adolescent consumers** may want the latest fizzy drink that all their friends are buying.

Economic Factors

The amount of money we have influences our purchases.

Consumers with a high income can afford to spend money on luxury foods - like prawns or fillet steak. They may often shop at a high end retailer like Marks and Spencer.

Consumers on a tight budget due to a low income or large family, may tend to spend money in cheaper outlets such as Lidl or Asda. They may also buy own brand products in order to save money.

Religious and cultural factors

Religious factors can have a major influence on what foods we buy.

For example, Muslims will not eat meat such as beef or lamb that has not been slaughtered by the halal method, while those of the Jewish religion will only eat foods that are Kosher. Where we are from and our **culture** will also influence our food purchases.

Ethical and environmental factors that affect food choice

An **ethical consumer** will care deeply about where their food comes from and the welfare of the animals and people involved in making that food.

They will look for the following factors:

- Organic produce ethical consumers tend to buy organic produce as it is produced in a way that protects the environment.
- Fairtrade produce ethical consumers tend to buy Fairtrade produce, for example bananas or chocolate, as the farmers responsible for producing the product have been given a fair price for their produce.
- Local produce ethical consumers often like to support local farmers.

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



Shopping option: Independent grocery shops

Examples: Local corner shop, Mace, Spar

Advantages

- √ range of local food products
- ✓ close to home and usually in residential areas
- often sell products in small quantities, which ultimately reduces waste
- personal and friendly service

Disadvantages

- √ often more expensive
- stock/choice of products may be limited and may not be rotated regularly
- √ range of products on sale may be limited
- √ parking may be limited

Shopping option: Supermarkets

Examples: Asda, Sainsbury, Tesco

Advantages

- ✓ wide range of products and brands available, including own brand
- special offers and promotions that may save consumers money
- economies of scale selling more products for less and therefore saving consumers money
- range of services and facilities on offer for a wide range of consumer needs/wants
- ✓ may have longer opening hours, for example 24 hours a day

Disadvantages

- √ impersonal service staff may not know customers by name
- customers may overspend and make impulse purchases because of the special offers available
- often situated out of town and therefore may be more difficult to access
- often very busy and noisier than a smaller shopping option
- often limited local produce

Shopping option: Markets

Examples: St George's Market in Belfast, Mourne Market in Newcastle

Advantages

- ✓ range of local produce available therefore helping the environment by reducing air
 miles and helping to support the local economy
- √ expert advice available
- ✓ may be cheaper than shops
- √ sociable experience for consumers

Disadvantages

- √ may only be available on certain days and possibly weather dependent
- ✓ may not have the range of products available from other shopping options
- ✓ packaging and labelling may not be available on the food products

Shopping option: Farm shops

There are dozens of farm shops across Northern Ireland. They mostly sell meat reared on the farm which the shop is attached to. They also sell a range of other local produce such as dairy, fruit and vegetables.

Advantages

- support local community
- ✓ local produce, less air miles therefore better for the environment
- wider range of organic produce

Disadvantages

- ✓ generally more expensive than supermarkets
- ✓ often situated in rural locations
- ✓ may only have seasonal vegetables compared to the range available at a supermarket
- √ limited opening hours

Shopping option: Online shopping

Examples: Asda, Sainsbury, Tesco

Advantages

- available 24 hours a day, seven days a week
- ✓ wide range of products available
- ✓ can purchase from the comfort of your own home

Dicadvantage

- payment security issues (internet or payment card fraud)
- don't get to handle the product before purchasing it
- may have short sell by dates
- may have to pay postage or delivery charge
- don't get the product immediately

Shopping option: Shopping apps

Advantages

- ✓ create and manage shopping lists at home, on the go or in store
- ✓ find products through search, filter and barcode scanner
- ✓ compare the price of individual items or your entire list across a range of grocery stores
- √ find the best offers
- set price alerts so you never overpay on your favourite items
- ✓ prices updated daily
- ✓ get saving suggestions and exclusive cash back vouchers to save even more
- √ your shopping list is automatically synced to your account

Disadvantages

- ✓ don't get to assess the aesthetical quality of the food, for example texture and smell
- √ difficult to know/check date of food items
- ✓ consumers need to have access to the apps and know how to use them



5. Food Waste How else can food supplies be increased sustainably? What is composting? As well as meat and fish, various other types of food can be produced in a ✓ Composting is a natural process that breaks down rotting food and Why do we waste food sustainable way. plants and turns it into soil. Many of us buy more than we need, cook more than we are going to eat and Organic farming-relies on natural products and processes. These include: ✓ Compost bins can be as simple as a plastic bin with air holes in it. don't use up food before it goes out of date. ✓ natural , such as , rather than chemicals. ✓ Fill your compost bin with scraps of fruit, vegetables, cut ✓ using natural predators, such as ladybirds, to control like. grass and other garden waste. You can even Food ends up in the bin because: ✓ which allows soils to recover compost teabags and scrunched up paper. ☐ We buy more than we need. ✓ Food waste and scraps from animal products like meat cannot be put ☐ We cook and fill our plates with more than we are going to eat. Urban and peri-urban horticulture (UPH) in most compost bins. ☐ We forget to use food up before it goes out of date. involves growing food in and around cities. Small plots produce more food than ✓ Over time the waste will break down and become nutrient-rich soil. ☐ We do not store food correctly so it goes bad more quickly than it should. the equivalent area of farmland. Urban plots also reduce food miles. ✓ This soil is perfect for helping new plants grow. You could use your compost to grow your own vegetables. What is bad about food waste? Eating seasonal foods ☐ Producing food uses up **natural resources** like **water** and **energy**. This has Importing food allows us to eat a wider variety of produce throughout the year. The benefits and challenges of making sustainable food choices an impact on climate change. For example, strawberries grow in the UK during the summer months. ☐ In some countries, people go hungry because they do not have enough Strawberries are imported to the UK during the winter so they can be bought in By using sustainable food practices like reducing the amount of food we supermarkets throughout the year. waste and making good decisions about the food we eat, we ☐ We spend a lot of **time** shopping for food and preparing it into meals. However, imported food has high food miles. In addition to this, growing food out can preserve the world's food supplies and lessen our impact on the Wasting food costs us money. of season in heated greenhouses or storing food generates . Eating locally grown environment. ☐ Food waste often ends up in landfill. This is harmful for our planet. food that is in season, therefore, helps to reduce carbon emissions. •By reducing food waste and planning your shopping, you can save **Farming** money. The less food you buy and waste, the less money you spend. Ideas to prevent food waste Farms can be categorised according to what is being grown or reared, the size of the Composted food can be used to grow more food, or even generate ✓ Plan meals – talk about the dinners you would like to have for the week operation and the agricultural techniques being used. electricity. and buy only the ingredients needed. Farming can be: ✓ Shopping list – take a list to the supermarket and stick to it. Only buy ✓ sedentary or nomadic Challenges what you need. ✓ subsistence or commercial •People might not know how to plan meals for a shopping list. ✓ Buy wonky fruit and vegetables – produce that is misshapen often gets ✓ arable, pastoral or mixed •People might be too busy to think about and plan the food they buy. left behind in the supermarket. It might look a little different but it tastes ✓ extensive or intensive Sometimes this can lead to buying too much and the food then goes to just as good! waste because it is past its sell by date. Sedentary or nomadic? **Buy short shelf life food** – shops have to throw away food when it ✓ Sedentary farming is when a farm is based in the same location all the time. •Composting and a lot of other recycling methods take time and space, reaches its 'Use by' date so they sometimes reduce the price to sell it ✓ Nomadic farming is when a farmer **moves** from one place to another. This is which some people don't have. Others might not know how to get quickly. It can stop waste and save money if you will eat it before it is out common in some LEDCs. started. of date. Subsistence or commercial? 6. Where food comes from ✓ **Storing food** Storing food correctly can keep it fresher for longer. Here ✓ Subsistence farming is when crops and animals are produced by a farmer to feed are some examples: their family, rather than to take to market. Different countries produce different types of food, which is often dependent on ✓ Bread needs to be stored in a cool, dark place to prevent mould. their . For example, Asian countries grow rice, African countries grow cocoa, South ✓ Commercial farming is when crops and animals are produced to sell at market ✓ Lettuce is best kept in the salad drawer of the fridge. American countries produce, and European countries produce a lot of milk and for a profit. ✓ Cheese should be wrapped and chilled in the fridge. fish. Of all in the world, around half is farmed. Arable, pastoral or mixed? ✓ Do not store highly gaseous produce, like bananas and Modern food production allows some, but not all, of the world's population to ✓ Arable farms grow **crops**. Crops are plants that are harvested from the ground to enjoy a varied diet throughout the year. For example, it is possible to eat avocados, with other fruits as they will make them turn bad be eaten or sold. strawberries in winter in the UK. This scale of food production can have negative auicker. ✓ Pastoral farms rear animals - either for animal by-products such as milk, eggs or impacts on people, animals and places. ✓ **Fridge**-You should store milk, butter, yoghurt, meat, fish, and vegetables Increasing adds to global. This is because fuel is required to move food between wool, or for meat. in the fridge to keep them cool and fresh. countries, which leads to increased . ✓ Mixed farms grow crops and rear animals.

- ✓ Freeze store food in the freezer to keep it fresh and use it later leftover
- ✓ Cupboard-You can store pasta, tins of soup and beans, cereal, bread, and
- jars in the cupboard. Once opened, tins and jars should be covered and
- kept in the fridge. Bread should be wrapped to stop it going stale.
- ✓ Use all your food up use what you already have before you go shopping

- again. You can take leftovers for lunch or make banana bread from overripe bananas that would otherwise go to waste. ✓ **Get composting!** Sometimes even if we try not to waste, we are still left with food scraps. Before we bin them and send them to landfill, we should stop and think...compost!
- Catching fewer fish can be achieved through a better design of fishing nets that
- have holes that allow smaller fish to escape. Smaller fish can then grow and

repopulate the oceans.

Some farmers feed to animals, as opposed to grass, as it increases their weight

generations.

What is sustainable fish and meat production?

and heavier animals can be sold on for more money. This results in further in order to create the farms to grow the grain. Likewise, some cattle are given to make them grow more quickly. Sustainable meat production involves rearing

animals on grass rather than grain, without using hormones.

food production involves farming the land whilst also protecting it for future

are caught at any one time, ensuring there will be enough fish for the future.

Sustainable fishing involves allowing fish stocks to our seas. This means fewer fish

as proximity to markets, are important with some types of farming, such as market gardening.

Distribution of farming

Extensive or intensive?

crops will grow and which animals are suited to the landscape. Human factors, such

from a large area of farmland.

✓ Extensive farming is where a relatively **small amount** of produce is generated

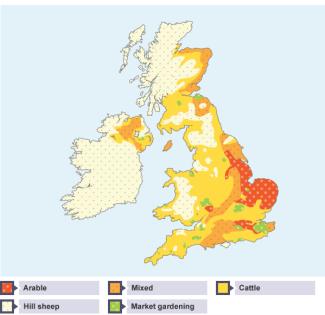
relatively small area of land. Inputs will be high to achieve a high yield per

particular area. Climate and relief are the dominant factors in determining which

✓ Intensive farming is where a large amount of produce is generated from a

hectare. Inputs could be either fertilisers, machines or labour.

Physical factors will determine which type of farming takes place in a



Arable farming

Arable farming is common in the south east where the summers are warm and the land is low, flat and fertile. The south east also has good transport links and farms are close to markets in towns and cities such as London.

Market gardening

Human factors such as finance and proximity to markets are important to market gardening. It is common in East Anglia where fruit, vegetables and flowers are grown.

Hill sheep farming

Hill sheep farming takes place in the north and west of Britain in highland areas such as Snowdonia and the Lake District. There are cool summers and high rainfall. The climate and steep land make these areas unsuitable for growing crops.

Dairy farming

Dairy farming is common in the south west and the west of England where the climate is warm and wet. There are also good transport links and good access routes to markets in these areas. The land may be flat or hilly, but not too steep.

Mixed farming

Mixed farming is found in areas where the climate and relief suit both crops and animals. It needs to be warm, but not too wet, and the soils need to be fertile and flat. Mixed farms need good transport links and accessibility to markets.

Case study: Cambridgeshire

Cambridgeshire is one of the most agriculturally productive areas in Europe. The area is used for arable farming because of: Physical factors

Low lying land
Well-drained soil
Warm summers (18°C in July)

Human factors

Good access to markets

Large areas of farmland so larger machines can be

Investment by companies - farms are owned by large companies able to use **economies of scale**

Farm diversification

Farming in the UK today is no longer as profitable for everybody as it has been. Reasons for this are:

- ✓ Supermarkets buy in bulk and are driving down the price of the food
- ✓ Imported food is often cheaper
- Mechanisation and changes to grants have meant smaller farms and hill farms go out of business

Farms can **diversify** to try and keep making money. This means that the farm will start to create other areas of income, such as creating a tourist attraction, offering bed and breakfast or selling produce via a farm shop. Some farms may also close and start a different business on the land.

Organic farming

Organically farmed produce

Organic farming does not use chemical fertilisers or feed additives for livestock. It relies upon more natural forms of farming such as biological pest control and crop rotation. Using ladybirds which eat aphids is one example where a natural process replaces a chemical pesticide. Organic farming is less efficient and so produce does cost more. The demand for organic produce is increasing in the UK. However people may go back to non-organically produced produce if their income falls.

Positive aspects of organic farming

- √ The environment benefits because natural habitats are less threatened.
- ✓ The soil can be in better condition because of the manure used.
- ✓ It can provide healthier food for people.
- ✓ Biodiversity increases with fewer chemicals which harm bees and other insects.
- ✓ The industry is worth over £1 billion a year.

Negative aspects of organic farming

- ✓ More produce is damaged by pests.
- Weed control is time consuming as weeds are often removed mechanically.
- ✓ Organic dairy farms produce more methane per animal than nonorganically produced. This is because of the diet of the cattle.
- Some organic farming methods use more water than non-organicall produce methods.
- Yields from organic crops are usually lower than those from nonorganically produced but the difference varies between types of cro and over time.

Voluntary – this is information that the manufacturer includes as they feel it may be useful for the consumer. For example, 'suitable for vegetarians'

Most of the organic food bought is actually imported.

7. Food Labeling

Mandatory and voluntary information

Food labels have both mandatory and voluntary information.

Mandatory – this means information that must be included by law.

Ethical and environmental food labelling The Fairtrade Foundation

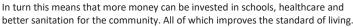
You may recognize the Fairtrade logo from different foods such as bananas, chocolate, coffee and tea.

The Fairtrade logo is displayed on foods which have been grown using sustainable methods by farmers in developing countries. These farmers will have received a fair price for their product and have decent working conditions.

Fairtrade helps disadvantaged producers or farmers in developing countries by promoting fair trading conditions, combatting poverty and helping them take control over their own lives.

Fairtrade provides the following for farmers and producers:

- √ fair prices for their product
- ✓ good working conditions
- ✓ support for the communities where the farmers live
- ✓ protection for the environment farmers work in



The Soil Association

The Soil Association works through the food chain to set high standards for healthy, humane, sustainable and organic food production.

The association works with farmers, manufacturers and retailers to maintain high standards of organic food production.

The Soil Association aims to change food culture by working with schools and work places, while securing the future of farming by helping the government to implement policy changes.

8. Cake making methods and what went wrong & why?

What has gone wrong when...The cake sinks in the middle...The oven door was opened before the cake was set. The cake was removed from the oven too soon, the cake is under baked The surface of the cake is covered with little air holes...The cake was not placed in the oven quick enough. The oven temperature was too low. The raising agent was not evenly mixed through the batter The cake has a thick crust...The oven temperature was too high. The cake is overbaked The top of the cake is domed and cracked...The over temperature was too high The cake has a sour flavour and odd colour...Too much bicarbonate of soda was used

Preparing the tin The cake tin should be prepared before starting the recipe. Brush the tin lightly with vegetable oil. To line the base of the tin accurately use the tin as a template and draw around the outside of the base of the tin onto greaseproof paper or non-stick baking parchment with a pencil. Using scissors cut just inside the pencil mark and place into the tin





Year 9 Half-Term 3 French Knowledge Organiser Unit 3: Projets d'avenir

Point de départ

Pour gagner de l'argent, on peut / je dois ... travailler dans le jardin. aider à la maison. aider les voisins. trouver un petit boulot. nourrir les animaux. faire du baby-sitting. Qu'est-ce que tu achètes avec ton argent?

J'achète ... Je fais des économies pour acheter ...

du maquillage. de la musique. du crédit téléphonique. des fournitures scolaires. des trucs à manger. des billets de cinéma. des jeux vidéo.

C'est ... une bonne idée. une mauvaise idée.

des vêtements.

facile / difficile. cool / ennuyeux. (In order) to earn money. you can / I must ... work in the garden. help at home. help the neighbours. find a part-time job. feed the animals. do babysitting. What do you buy with your money? I buy ...

make-up. music. phone credit. school supplies. things to eat. cinema tickets. video games. clothes.

I am saving up to buy ...

It is ... a good idea. a bad idea. easy / difficult. cool / boring.

Unit 1 Qu'est-ce que tu veux faire plus tard?

Qu'est-ce qu'on fait comme métier? Qu'est-ce que tu veux faire plus tard? II/Elle est ... Je veux être ... Je ne veux pas être ... scientifique pilote ingénieur(e) danseur/danseuse instituteur/institutrice infirmier/infirmière policier/policière

mécanicien/mécanicienne musicien/musicienne architecte vétérinaire

car c'est ... créatif. dangereux. fatigant. intéressant. passionnant.

utile. varié. What job do we do?

What do you want to do later? He/She is a ... I want to be a(n) ... I don't want to be a(n) ...

> pilot dancer

nurse police officer mechanic musician architect vet

because it is ... creative. dangerous. tiring. interesting. exciting.

useful. varied.

scientist engineer

primary school teacher

À l'âge de 16 ans, je veux ... rester à l'école. étudier les sciences. étudier les maths. étudier le dessin. étudier les langues. trouver un petit boulot. aller au lycée.

J'adore les enfants.

J'adore les animaux.

J'adore les voitures

faire un apprentissage. faire du travail bénévole. travailler en équipe.

travailler avec des personnes âgées.





Je dois gagner de l'argent. I must earn money. J'aime aider les autres. I like helping others. I love children. I love animals. Hove cars.

> At the age of 16, I want ... to stay at school. to study science. to study maths. to study art. to study languages. to find a part-time job. to go to sixth form college. to do an apprenticeship. to do voluntary work. to work in a team. to work with elderly people.



Unit 2 Qu'est-ce que tu feras à l'avenir? Qu'est-ce que tu feras à What will you do in the l'avenir? future? J'habiterai ... I will live in Europe / in Afric en Europe / en Afrique / à l'étranger. abroad. Je travaillerai ... I will work ... avec des enfants. with children. chez Google. at Google. J'achèterai ... I will buy ... une belle maison. a beautiful house. a red Ferrari. une Ferrari rouge. J'aurai... I will have ... une Mobylette. a moped. cing enfants. five children. a boyfriend. un petit copain. une petite copine. a girlfriend. J'irai ... I will go ... à New York / en Chine to New York / to C en Amérique du Sud. to South America. Je ferai I will do ... du travail bénévole. voluntary work. du snowboard. snowboarding. Je serai ... I will be ... célèbre / marié. famous / married.

I will help others.

heureux/heureuse

Je gagnerai beaucoup

J'aiderai les autres.

d'argent.

ras à l'avenir?	U
What will you do in the	À
future?	
I will live	C
in Europe / in Africa /	•
abroad.	C
I will work	C
with children.	
at Google.	C
I will buy	C
a beautiful house.	
a red Ferrari.	II
I will have	
a moped.	
five children.	
a boyfriend.	
a girlfriend.	
I will go	
to New York / to China	
to South America.	
I will do	
voluntary work.	
snowboarding.	
I will be	
famous / married.	
happy.	
I will earn a lot of money.	
Lwill halp others	1

Unit 3 Retour vers le futur À l'avenir, le monde sera comment? On portera des vêtements « intelligents ». On mangera des insectes. On voyagera en voiture sans conducteur. On achètera tout en ligne. On ira en vacances sur la Lune. y aura ... un robot dans chaque maison. des collèges virtuels pour les élèves. des drones dans chaque entreprise. Il est inventeur. Il est né ... Il a immigré ... Il a fait des études ... Il a développé ...

What will the world be like in the future? We will wear "smart" clothes. We will eat insects. We will travel by driverless We will buy everything online. We will go on holiday on the moon. There will be a robot in every house. virtual schools for pupils. drones in every business.

Ce sera très différent. passionnant. effrayant. dangereux / utile. Il y aura un robot pour aider / travailler ... II ... organisera ... / fera ... ira ... / jouera ... coupera (les cheveux). appliquera (du maquillage). rapportera ... / examinera ... décidera ... / donnera ...

very different. exciting. frightening. dangerous / useful. There will be a robot to help / work ... It ... will organise ... / will do ... will go ... / will play ... will cut (hair). will apply (make-up). will bring (back) ... / will examine ... will decide ... / will give ...

It will be

Unit 4 Profil I d'un inventeur ou d'une inventrice

Il a inventé ... un robot pour aider les personnes handicapées. des lunettes pour traduire en anglais. Qu'est-ce que tu fais

comme métier?

He is an inventor. He was born ... He immigrated ... He studied ... He developed ... He invented ... a robot to help people with disabilities. glasses to translate into English. What is your job?

Où est-ce que tu travailles pour gagner de l'argent? Pourquoi est-ce que tu veux être inventeur/inventrice professionnel(le)? Qu'est-ce que tu as inventé récemment, et quand? Avec qui est-ce que tu as travaillé sur ton invention? J'ai travaillé seul(e). J'ai travaillé en équipe. Qu'est-ce que tu inventeras à l'avenir? À mon avis, ce sera utile.

professional inventor? What did you invent recently. and when? Who did you work with on vour invention? I worked alone. I worked in a team. What will you invent in the future? In my opinion, it will be useful.

Where do you work to earn

Why do you want to be a

money?

Year 9 Half-Term 4 French Knowledge Organiser

Unit 3: Ma vie en musique

Point de départ

Sur la photo, il y a un groupe pop. À gauche / droite, il y a ...

une fille qui chante. un garçon qui porte ...

II/Elle a les cheveux

Derrière lui/elle II/Elle joue ...

du violon / du piano.

de la batterie.

de la clarinette.

de la flûte. de la guitare.

de la trompette.

du jazz / du R'n'B.

de la musique classique.

du hip-hop / du rap.

du hard rock.

de la techno.

Comment tu trouves ...

le chanteur/la chanteuse?

la mélodie?

les paroles?

le rythme?

les musiciens?

la chanson en général?

In the photo, there is a pop group.

On the left / right, there is . a girl who is singing.

a boy who is wearing ...

He/She has hair Behind him/her

He/She is playing ...

the violin / the piano.

the drums.

the clarinet. the flute.

the guitar.

the trumpet.

jazz / RnB.

classical music.

hip-hop / rap music.

hard rock.

techno music.

What do you think of ... the singer?

> the melody? the lyrics? the rhythm? the musicians? the song in general?

Je le/la/les trouve ... démodé(s/e/es).

original/originaux/

originale(s).

ennuyeux/ennuyeuse(s). bon(s)/bonne(s).

bête(s).

Qu'est-ce que tu aimes comme musique?

J'aime toutes sortes de musique.

J'écoute souvent du hip-hop.

Ca me donne envie de Ca me rend heureux/

heureuse. Sa musique est inspirante.

Est-ce que tu joues d'un instrument?

Je ne joue pas d'un instrument.

Je joue de la flûte.

I find it/them ... old-fashioned.

original.

boring. good.

stupid.

What sort of music do you like?

I like all sorts of music.

I often listen to hip-hop. It makes me want to dance.

It makes me happy.

His/Her music is inspiring. Do you play an instrument?

I don't play an instrument.

I play the flute.

Unit 1 Tu étais comment?

Tu étais comment? Quand j'étais petit(e) ...

j'avais (les cheveux frisés).

i'étais

sage / méchant(e).

timide / mignon(ne).

je n'étais pas très sage.

I didn't use to be very well behaved.

good / naughty.

shy / cute.

What were you like?

hair).

I used to be

When I was younger ...

I used to have (very curly

Qu'est-ce que tu portais? What did you wear?

Je portais (un sweat jaune). I used to wear (a yellow

sweatshirt).

What did you do at school?

Qu'est-ce que tu faisais à

l'école?

Qu'est-ce que tu faisais à la What did you do at home?

maison?

Je jouais ...

Je faisais ...

J'allais

Je lisais ... Je restais (dans ma

chambre).

Qu'est-ce que tu aimais?

J'aimais (le chocolat). Cependant, je n'aimais pas

I used to play ...

I used to do ... I used to go ...

I used to read ... I used to stay (in my

bedroom). What did you like?

I used to like (chocolate). However, I didn't use to like

(fish).









Unit 2 Ton école primaire était comment? Ton école primaire était What was your primary comment? school like? Mon école primaire était ... My primary school was ... grande / petite. big / small. de taille moyenne. middle-sized. The building was ... Le bâtiment était ... moderne / vieux modern / old beau / laid. beautiful / ugly. Il y avait combien d'élèves? How many pupils were there? Mon instituteur était moins There were 300 pupils. Il y avait trois cents élèves. Ton instituteur était What was your primary comment? school teacher like? II/Elle était ... He/She was ... drôle / gentil(le). funny / kind. sévère / impatient(e). strict / impatient. patient / nice. patient(e) / sympa. Qu'est-ce que tu étudiais? What did you study? J'étudiais l'anglais. I studied English. What was your favourite Quelle était ta matière préférée? subject? Ma matière préférée, c'était My favourite subject was le français. French. J'adorais lire. I loved to read. Tu étais heureux/heureuse Were you happy at school? à l'école?

J'étais heureux/heureuse ... I was happy ... J'aimais ... / J'adorais ... I liked ... / I loved ... Je détestais ... I hated ... I preferred my primary school. Je préférais mon école primaire. I prefer secondary school. Je préfère le collège. Les activités extrascolaires The extra-curricular activities du collège sont plus at secondary school are amusantes. more fun. My primary school teacher sérieux que mes profs au was less serious than my collège. teachers at secondary school. La journée scolaire est trop The school day is too long! longue! Les repas de la cantine sont The meals at the canteen are meilleurs. better. L'emploi du temps est plus The timetable is fuller. chargé. Les cours sont plus The lessons are more stimulants. stimulating.

Unit 3 Autrefois ... aujourd'hui ... il y a (six) ans (six) years ago To listen to music, ... Pour écouter de la musique, ... on achetait des CD. people used to buy CDs. people used to go to a on allait à un concert. concert. on utilisait Spotify. people used to use Spotify. Écouter de la musique à la Listening to music on the radio était ... radio was ... plus populaire. more popular. Pour écouter de la musique To listen to music today, ... aujourd'hui, ... people use a gramophone. on utilise un gramophone. people buy audio cassettes. on achète des cassettes audio. people listen by streaming. on écoute en streaming. Today, young French people Aujourd'hui, les jeunes Français écoutent ... listen to ... toutes sortes de all sorts of music. musique. de la musique rap. rap music.

Unit 4 De jeunes réfugiés Où est-ce que tu es né(e)? Where were you born? Je suis né(e) en / au ... J'habite maintenant en / au ... Où est-ce que tu habitais?

J'habitais ...

Maintenant, j'habite ...

I was born in ... Now I live in ... Where did you live? I lived ... Now I live ...

Pourquoi est-ce que tu as quitté (le Soudan)? Nous avons quitté le Soudan à cause de ... la guerre. la pauvreté. la famine. la persécution. Quand est-ce que tu as immigré en France?

Why did you leave (Sudan)? We left Sudan because of ... war. poverty. famine. persecution. When did you immigrate to France?

J'ai immigré en France il y a 1 immigrated to France four quatre ans. years ago. Qu'est-ce que tu fais What do you do now? maintenant? Je vais au collège. I go to school. What do you want to do in the Qu'est-ce que tu veux faire. à l'avenir? future? Je veux être (professeur). I want to be (a teacher). Je veux devenir infirmier/ I want to become a nurse. infirmière.

Development Indicators - Trend GNI per capita \$6500 Growing

1101	<u></u>	OLOWING
Infant mortality	35 (per 1000 live births)	Falling
Literacy rate	75%	Growing

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

Rural to Urban Migration - Mumbai

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 (people away from an area)	Pull (people to an area)	
Poverty Few jobs available Lack of schools Lack of healthcare Harsh climate Lack of services	Chance of employment Healthcare Education Family links Entertainment and Better transport links	
The wealth and importance of Mumbai		

The wealth and importance of Mumbai

Mumbai is on the west coast of India. It was once seven islands and the main industry was fishing. It is now a mega city with a population of over 21 million.

There are 51 billionaires living in Mumbai and this number is expected to increase. The number of billionaires will increase faster than USA and China.

These billionaires generate huge tax revenues for the Indian government, giving them more money to spend on education, sanitation and healthcare.

Property in Mumbai is amongst the most expensive in the world. Antilla house owned by a billionaire, cost over \$2.5 billion to build. The natural geography limits the amount of suitable land for development.

Mumbai Trade links

Mumbai has become one of the most important cities in Asia and is India's most important trading port.

Mumbai has trade and transport links all over the world. Its is home to a number of huge Trans National Companies (TNCs) such as Tata. Jaguar Landrover is owned by Tata which is based in Mumbai, Jaguar Landrover employs over 37 000 people in the UK.

Asian Giant -India

Location of India

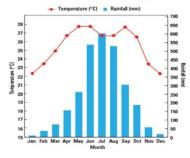
South Asia South of China SE of Pakistan Indian Ocean to S Himalayas to NE

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 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

Life in Mumbai Slums

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. Almost 1 million people live in Dharavi, the second largest slum in Asia.

Positives of Dharavi:

- Great community feel
- · Low crime rates
- Good use of space street turns into mosque
- 85% employment rate (lots of informal jobs)
- 15,000 factories
- 80% of Mumbai's plastic waste is recycled.
- \$1billion added to economy p/yr.

Negatives of Dharavi:

- · Hazardous working conditions
- Poor housing conditions Water rationed to 2 hours a day
- Limited sewage systems
- High levels of disease e.g. Cholera, Typhoid, TB
- Very cramped 1 million people in 1sq mile.

The Sundarbans Mangrove Swamps

The Sundarbans is a network of marine streams, mud shores and 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, 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 tigers each year in the Sundarbans.

Slum Redevelopment in Mumbai

Authorities in Mumbai are trying to redevelop areas of the slums in order to improve peoples lives. Various techniques have been used:

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. So the project provides 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. The industries such as pottery will be destroyed too.

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. The Indian Plate is moving north into the

COLLSION PLATE BOUNDARY

Fold Mountains produced by upthrust on collision

Himalayas Tourism - Opportunities and Challenges

Opportunities:

Eurasian Plate.

- Provides the local Nepalese people (Sherpas) with jobs. Improving their quality of life.
- Money spent on improving education, healthcare, clothing.

Challenges:

- Waste left on mountainside
- Loss of life High amount are Sherpas. • Climate change – reducing

snow and ice levels.

What is China like?

Environmental Issues

Location of China

South East Asia
East of India
South of Mongolia
Yellow Sea to the East
Himalayas to the South West
Gobi Desert
Kun Lun Mountain range



How is China developing?

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.

Development Indicators - Trend

GNI per capita	\$15 500	Growing
HDI	0.74	Growing
Infant mortality	9 (per 1000 live births)	Falling
Literacy rate	<mark>96.4%</mark>	Growing
Life expectancy	76 years	Increasing

China is classed as a NEE Country - Newly Emerging Economy.

Population

China was the first country in the world to record a population in excess of 1 billion; it is now over 1.4 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 controversial One Child Policy.

- Couples had to be married to have a child
- Couples had to apply to the government to have a child
- Those who had one child received benefits and free health care
- Forced abortions were given if pregnant with 2nd child.

It led to a number of unplanned side effects:

- Baby boys were favoured over girls; this led to a gender imbalance.
- The poorest became reliant upon the benefits
- Babies being abandoned or dumped in orphanages.

+ The policy was so successful that the government is now actively encouraging larger families. There are concerns that some areas will be underpopulated and industry will suffer in the future and they will struggle to fund the elderly population

The policy was formally phased out in 2015.

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 dominated by dry seasons and wet monsoons, which lead to temperature differences between winter and summer.

TNCs in China – Apple and Foxconn

Why are TNCs located in China?

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. Little Health and safety factories can be up and running quickly.
- 6. Roads products can be transported and exported easily and quickly.
- o. Noaus products can be transported and exported easily and quickly.
- 7. Flat land-suitable and cheaper for construction.
- 8. Cities specialise
- 9. Special Economic Zones financial incentives offered by the government in certain areas of the country.

What are they?	Positives	Negatives	
TNCs are also known as Multi National Companies. They are companies that operate in a number of different countries. They often locate their factories in NEE/LIC countries and have their headquarters in HICs. They have helped to increase globalisation. spoken.	Employment is provided for local people. Roads and infrastructure are built by the TNCs. Increased taxes for the government can be spent on improving education/health/sa nitation. Other local businesses benefit as people have more money to spend.	Very long working hours. Wages are low. There is no job security. Health and safety regulations are not as stringent as in HICs Most of the profit goes back to HICs. Suicide rates amongst workers ar very high. Poor quality of live amongst workers.	



Population pyramids show the structure of the population in a country in any one year. A narrow base means low birth rates. A wide top means people are surviving to old age like in China. They worried they won't be able to adequately support their elderly population now.

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 and ecosystems throughout China.

Water pollution - Coastal pollution is widespread, leading to declines in habitat 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

Powering Chinas' future Economic Growth

The 3 Gorges Dam

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 need to reduce the amount of fossil fuels they currently consume (namely coal).

Benefits

Reduced risk of flooding.
Water stored behind the dam is available for irrigation.
Hydroelectric Power (HEP) is generated by turbines in the dam. It's the worlds largest capacity HEP station.

The electric produced means China saves 31 million tonnes of coal each year, reducing their greenhouse gas emissions.

Negatives

Good farmland has been lost
Over 1.3million people were forced
to move their homes
Archaeological sites were lost.
These is an increased risk of
landslides in some places.
The project was very expensive.
US\$22.5 billion
Downstream areas been more at
risk from flooding.

Panda Solar Farm - 248 acres in size, located in northern China. One of two built in the shape of a giant panda! There are plans to build another 98 around the country. China will become the worlds largest producer of solar energy. Construction created 1000s of jobs and reliable renewable energy.

Investment in Africa – China has invested billions of dollars throughout Africa, funding more than 1000 projects in Nigeria, South Africa and Zambia. They have become Africa's most important trading partner.

Positives

New transport links enables better trade links and public transport Jobs created in new mines Quality of Life increases for locals who now access improved facilities such schools/healthcare

Negatives

Valuable natural resources are exported out of Africa Dangerous working conditions in copper mines Lots of jobs go to Chinese workers

Year 9 Half-Term 3 German Knowledge Organiser Pocket money and Shopping?

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

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

Die Geschäfte the shops im Musikladen m in the music shop in der Buchhandlung f in the book shop im Modegeschäft n in the clothes shop in der Konditorei f in the cake shop in the chemist's in der Drogerie f im Sportgeschäft n in the sportshop in der Metzgerei f in the butcher's im Kaufhaus n in the department store in der Bäckerei f in the bakery

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

Note: IM is short for IN DEM

Ich werde I will
Du wirst you will
Er / sie / es / man wird he / she / one will
wir werden we will
ihr werdet you will
sie werden they will

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

Vocabulary

das Taschengeld pocket money Sportschuhe trainers Computerspiele computergames ein Fahrrad a bike make-up Make-up CDs / Musik CDs / music Bücher books clothes Kleidung 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 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 (re	eceive) bekommen
verdienen = to earn	verdient
ausgeben = to spend	ausgegeben
tragen = to wear	getragen
kosten = to cost	gekostet
helfen = to help	geholfen
arbeiten = to work	gearbeitet
gehen = to go	gegangen*
einkaufen gehen = to g	go shopping
einkaı	ıfen gegangen*

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

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** *schwarze* Jacke = I am wearing a black jacket

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

German

Year 9 Half-Term 3 German Knowledge Organiser Pocket money and Shopping?

Ich bekomme (I get)	jeden Monat (every month) jede Woche (every week)	von meinen Eltern (from my parents) von meiner Oma (from grandma)	zehn Pfund (£10) fünf Pfund (£5)	Taschengeld.
Ich spare (I save)	auf ein Handy (for a phone) für die Ferien (for the holiday)			
Ich trage (I wear) Er/ Sie trägt (he/she is wearing)	ein langes Kleid (a long dress) eine enge Jeans (skinny Jeans) einen modischen Pullover (trendy jumper) neue Stiefel (new boots)	zur Schule. (to school) zur Party. (to the party)		
Ich werde (I will) Sophie wird (Sophie will) Er wird (he will) Wir werden (we will)	CDs und Bonbons (CDs and sweets) ein neues Handy (a new phone) eine blaue Mütze (a blue hat)	kaufen (to buy)		
Letztes Wochenende (last weekend) Gestern (yesterday) Letzten Sonntag (last Sunday)	habe ich (I have)	einen karierten Rock (a checked skirt) eine unbequeme Jacke (an uncomfortable jacket) ein gelbes T-shirt (a yellow T-shirt)	gekauft. (bought) getragen. (worn)	
				32

German

Year 9 Half-Term 4 German Knowledge Organiser Bleibst du gesund?

Breakfast

yoghurt

cheese

ham

bacon

toast

coffee

butter

orange juice

marmalade

hot chocolate

tea

iam

milk

roll

fruit

egg

eggs

cereal

Year 9 German – Knowledge Organiser Half term 4 – Bleibst du gesund?

Das Frühstück
der/das Joghurt
der Käse
der Schinken
der Speck
der Toast
der Kaffee
der Tee
der Orangensaft
die Butter
die Marmelade
die Orangenmarmelade
die Milch
die heiße Schokolade
das Brötchen
das Obst
das Ei
die Eier (pl)
die Frühstücksflocken (pl)

Wie ist das? süß sweet sauer salzig scharf vegetarisch lecker What is it like? sweet sour salty spicy vegetarian delicious

disgusting

ekelhaft

Was isst du zum Frühstück? What do you eat for breakfast?

lch esse einen Joghurt. ein Brötchen mit Butter
lch esse kein Frühstück.
Max isst Toast mit Butter.
Ellie und Sarah essen Eier
lch trinke einen Kaffee.
eine Tasse Tee
Das ist (un)gesund.
Das ist lecker/furchtbar.

I eat a yoghurt.
a roll with butter and jam
und Marmelade
I don't eat any breakfast.
Max eats toast with butter.
Ellie and Sarah eat eggs.
I drink a coffee.
a cup of tea
That's (un)healthy.
That's delicious/awful.

Mein My favourite Lieblingssandwich sandwich das Ketchup ketchup der Senf mustard tuna fish der Thunfisch die Erdnussbutter peanut butter die Gurke gherkin die Mayo mayonnaise die Olive olive die Sardelle sardine, anchovy

Oft benutzte Wörter

normalerweise gestern bis früh spät mehr wenig weniger oft besser mein dein sein ihr mit ohne in

auf

High-frequency words usually vesterday until early late more little less, fewer often better my your his her with without

in, into

on, onto

German

Year 9 Half-Term 4 German Knowledge Organiser

Bleibst du gesund?

Year 9 German – Knowledge Organiser Half term 4 – Bleibst du gesund? Seite 2

Die Mahlzeiten
die Vorspeise
die Hauptspeise
die Nachspeise

Im Restaurant

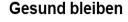
Was nimmst du?
Ich nehme ...
den Fisch
die Gemüsesuppe
das Hähnchen

Mealtimes

the starter the main course the dessert

In the restaurant

What are you having?
I'll take/I'm having ...
the fish
the vegetable soup
the chicken



Man muss ...
acht Stunden schlafen
wenig Fett und Zucker essen
viel Obst und Gemüse essen
mehr Wasser trinken
früh ins Bett gehen
drei Stunden trainieren
zweimal pro Woche joggen

Staying healthy

One/You/People must ...
sleep for eight hours
eat little fat and sugar
eat lots of fruit and vegetables
drink more water
go to bed early
exercise for three hours
jog twice a week

Die Speisekarte

(der) Fisch mit Reis und Erbsen der Flammkuchen mit Sauerkraut

(die) Bratwurst mit Eiern

(die) Gemüsesuppe mit Brötchen

(das) Hähnchen mit Pommes

frites und Karotten

(das) Schnitzel mit Kartoffeln

(das) Steak mit Rösti

(die) Käsespätzle mit Salat

Menu

fish with rice and peas
Flammkuchen with pickled cabbage

fried sausage with eggs vegetable soup with a roll chicken with chips and carrots

pork fillet in breadcrumbs with potatoes steak with rösti potatoes/ hash browns speciality cheesy pasta with salad

Grammatik

Page 69

müssen (must, to have to) is a modal verb like *können* and *dürfen*. Use it with the infinitive of another verb, which goes at the end of the sentence:

Du musst jeden Tag trainieren. You have to train every day.

ich **muss** wir müssen du **musst** ihr müsst er/sie/es **muss** Sie müssen sie müssen

Germar

Year 9 Half-Term 4 German Knowledge Organiser Bleibst du gesund?

			<u> </u>	
Ich esse gern (I like to eat) Ich trinke gern (I like to drink) Ich esse nicht gern I don't like to eat) Meine Mutter isst gern (My mum likes to eat) Mein Bruder isst nicht gern (My brother does not like to eat)	Gemüse (vegetables) Obst (fruit) Getreideflocken (cereal) Fleisch (meat) Wasser (water) Orangensaft (orange juice)	weil (because) obwohl (although)	es lecker (it tasty) es ekelhaft (it disgusting) es gesund (it healthy) es süß (sweet) es ungesund (unhealthy) es salzig (salty) es sauer (sauer)	ist
Ich esse (I eat) Er isst/Sie isst (he eats/she eats) Ich trinke (I drink) Er trinkt/Sie trinkt (He/she drinks)	oft (often) immer(always) wenig (a little) normalerweise (normally) kein/keine/keinen (no) nicht gern	Suppe (soup) Schaschlik (kebab) Vorspeisen (starter) Nachspeisen (deserts) Milchprodukte (dairy products)		
Ich muss (I must) Er/Sie muss (he/she must) Wir müssen (we must)	früh ins Bett gehen. (go to bed early) gesund essen. (eat healthily) wenig Fett essen (eat little fat) zweimal pro Woche trainieren (train 2x per week)			

1. Why did America experience an economic boom?

The First World War was beneficial for the USA for the following reasons:

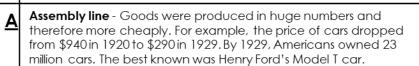
-They supplied the Allies with industrial goods such as weapons, which sped up their industrial production. This led to the economic boom of the 1920s and America replacing Britain as the most important creditor nation.

-The USA did not suffer any physical damage from the war, unlike France, meaning it was able to take the lead in the post-war negotiations leading to the Treaty of Versailles. They chose to adopt a policy of isolationism.

ı	Laissez-faire – They believed the government should not interfere in the economy so big businesses could expand without being held
-	the economy so big businesses could expand without being held
	back by the government. They feared too much interference would
	upset the natural patterns in the economy.

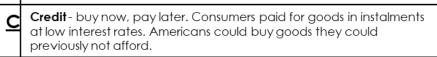


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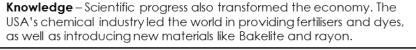




 $\overline{\cdots}$









Position of USA in the world - The US came out of WW1 in a strong position. Largely unaffected by the enormous cost of the war, having sold arms and supplies to Western Europe. The USA was also very strong in natural resources such as timber, iron, coal, minerals, oil and land, so didn't have to import them from other countries.



Advertising – Advertising industry grew, and advertisements were sophisticated, colourful and full of catchphrases. They were placed on roadsides, on the radio, in newspapers and in cinemas. This encouraged people to buy more.



New consumer goods - New, highly desirable goods began to be massed produced and purchased, such as telephones, radios, fridges and cars. E.g. in 1920 there were 60,000 radios in America and by 1929 there were 10 million.



Tariffs – American products would be bought by consumers because they were cheaper than their foreign rivals. (More tax was put on foreign goods making them more expensive).

Share confidence - Confidence in the economic boom amongst

goods, try new ideas and invest in companies.

Americans was very high, which meant they were prepared to buy



2. Why were the 20's 'roaring'? Before the war, girls were expected to behave modestly and wear long dresses. When they went out, they had to be accompanied by an older woman or a married woman. Females were employed in jobs that were traditionally associated with women, for example servants, seamstresses, secretaries and nurses. By the end of the 1920s there were significant changes to the role of women. In 1920 the Nineteenth Amendment to the Constitution gave women the right to vote. The National American Woman Suffrage Association (NAWSA) had been campaigning for decades to get the vote. By 1928, 145 women had seats in 35 State governments and 2 were State Governors, but these were the exceptions. There was an increase of 25 per cent in the number of women working during the 1920s. It became acceptable for women to wear short skirts, drive cars and take part in energetic sports. It was all the rage for women to cut their hair in a bob. They wore a lot of jewellery and make-up. **Spending on cosmetics** increased from \$17 million to \$200 million per year. Chanel and Elizabeth Arden were favourites. Young women danced the **new daring dances**, such as the Charleston and the Bunny Hug. The women who either chose or could afford this lifestyle were mainly young, middle- class women. They were referred to as 'flappers'. Before the cinema became popular during the 1920s, the radio was the main medium of entertainment in America. By the end of the 1920s, 50 million people had a radio set. Spectator sports developed quickly, especially baseball and boxing. Stadiums such as the Yankee Stadium were built and Madison Square Garden was rebuilt in 1925 in order to hold sporting events, such as

3. What was prohibition?

attracting more and more people

On 16 January 1918, the Eighteenth Amendment to the USA's Constitution made it illegal to manufacture, transport and sell alcohol in the USA. The following year, in 1919, the Volstead Act set out the details of what **Prohibition** meant and the punishments for breaking the new law. Drinks containing more than 0.5 per cent alcohol were banned. The aim of **Prohibition**, also known as "The Noble Experiment", was to stop the trade in alcohol. During the 19th century powerful groups (Anti-Saloon League and The Women's Christian **Temperance Union**) supported the idea of banning the sale of alcohol. They argued that alcohol consumption damaged family life. Many 'dries' argued alcohol was responsible for crime and violence. Henry Ford and other industrialists were concerned drinking reduced efficiency at work. Many religious groups saw alcohol as the root of sin and evil. It was thought prohibition would support traditional American values. Many brewers were German (for example, 'Budweiser') and after WW1 some people saw the sale and drinking of German alcohol as unpatriotic. Those who disliked Prohibition, i.e. the "wets", thought the government ³⁶ was interfering too much in the lives of the individual.

boxing, ice hockey and basketball. Sports became a profitable business,

4. What was the impact of prohibition and why did it fail?

There was a lack of public support. Many people were "wets" and it was impossible to persuade drinkers to change the habit of a lifetime. Plus, the law did not forbid the consumption of alcohol (only the manufacture, transport and sale of it), so many felt justified in drinking. Alcohol was readily available. It was supplied by bootleagers, moonshiners and rum-runners. There were 280,000 illegal stills seized, and speakeasies were everywhere, including 30,000 in New York by 1929. Enforcement of Prohibition by government officials was very ineffective. Patrollina the USA's borders was impossible. Blocking the coastline was also difficult. Rum continued to come in from the West Indies through rumrunners. There were only 2,300 special Prohibition Agents and they were on low salaries (\$2,500 per year). One in twelve agents were sacked for taking bribes. Judges and politicians were also often willing to take bribes. Prohibition led to the growth of organised crime gangs, like gangsters, such as **Al Capone**. They not only

Thus, crime increased dramatically. 5. What was life like for immigrants?

At the end of the nineteenth century, the USA had an Open Door policy which encouraged immigration. By 1920, more than 40 million

supplied alcohol on a massive scale, but they

also ran prostitution, gambling and other rackets.

people had arrived. As a result, there was a mixture of people from different races, cultures and religions living in America. This mixture became known as the 'Melting Pot'. By 1920, many Americans began to disapprove of the government's Open Door policy because they feared the economic, political and social impact of immigration. As a result of these concerns, the US Congress passed three laws to restrict immigration. Literacy Test, 1917: Immigrants had to pass a series of reading and writing tests. If they failed the tests they were refused entry. The Emergency Quota Act, 1921: This law restricted the number of immigrants to 357,000 per year. The National Origins Act, 1924: This law reduced the maximum number of immigrants to 150,000 per year. Nicola Sacco and Bartolomeo Vanzetti were Italian immigrants. They were convicted of armed robbery and murder. Although a man named Celestino Madeiros admitted that he had

committed the crime, they were both executed..

6. Did all Americans benefit from the 1920s?

militant than the NAACP.

In 1920, there were 12 million black Americans living in the USA with 75 per cent of them living in the south. Racial intolerance affected every aspect of their lives. Although slavery had ended in 1865, black Americans in the southern states suffered more discrimination than those in the north. This was because of the **Jim Crow laws in the south**. **legalising and encouraging segregation**. When unemployment increased, they were the first to be sacked. There was hostility from white people and attacks from the Ku Klux Klan (KKK) because they felt the black Americans were taking their jobs. They also feared the crime and violence in the ghettos. Race riots, such as those in Chicago in 1919, fuelled anxieties and sparked an increase in the membership of the KKK. The NAACP, led by William du Bois, grew rapidly. In 1919, it had 90,000 members. It wanted to make black Americans more aware of their civil rights and to campaign for the abolition of segregation, the right to vote and equality in education. The Universal Negro Improvement Association (UNIA) was led by Marcus Garvey and had over one million members in 1921. Its aim was to increase black American pride in their colour, culture and history. "Black is beautiful" was his most famous slogan. UNIA members were more

7. What was the impact of the Wall Street Crash? -In October 1929, the 'Roaring Twenties' came to a dramatic end and the USA economy went into deep depression. On 29th October, known as "Black Thursday", 16 million shares were sold at a fraction of their original price, and consequently the economy collapsed. This became known as the 'Wall Street Crash'. For many workers the Great Depression was a period of misery and destitution. **Unemployment** increased: It rose from 1.6 million in 1929 to 14 million in 1933 (i.e. from 3 per cent to 25 per cent of the workforce). **People** were desperate for work. For example, in 1930 there were 6,000 men on the streets of New York trying to survive by selling apples. Demonstrations, by both the unemployed and employed, at the lack of action by the government turned into violence. In 1930, a rally of unemployed people became a riot as police charged the crowd. There were strikes and bitter clashes in many American cities because of starvation level wages. Millions of people had to exist in "Hoovervilles" under "Hoover blankets" (newspapers). Natural disasters made the problems worse. From 1930 onwards, farmers in the Midwest were hit by a series of droughts, which eventually created the Dust Bowl of 20 million hectares of land.

Economic boom- A period of prosperity in the economy. The economy was doing well and many people benefited.

Isolationism- a policy of remaining apart from the political affairs of other countries

Consumer- a person who purchases goods and services for personal use.

Laissez-faire- A government policy of interfering as little as possible in the economy.

Prosperity-wealth and success

Flapper- a liberated, young, fashionable woman in the 1920s

Prohibition- A name given to a period in the United States' history between 1920-1933 when alcohol was banned.

Speakeasy- A bar that sold alcoholic beverages illegally during Prohibition in the 1920s.

Bootlegging-illegal manufacture, distribution, or sale of alcohol

Segregation-setting someone or something apart from others.

White Supremacy- the belief that white people constitute a superior race

Speculation-purchasing and selling shares on the stock market in the hope that the value of what is purchased will increase

Great Depression- A prolonged economic downturn, beginning after the Wall Street Crash

Hooverville-Shanty towns, which are large settlements consisting of very poor quality housing

Y9 Unit 3: What's significant about WW2?			What was the main cause of WW2? (steps to war)	
In the 1920s, increasing nu became drawn towards of as Fascism. Fascism emer	In the 1920s, increasing numbers of people in Europe became drawn towards a new political idea known as Fascism. Fascism emerged largely due to unhappiness with democratic governments, such as		Saar Plebiscite 1935: In 1935 the inhabitants of the Saar voted to return to Germany. The Saar plebiscite is cited by many historians as the first step to war. It demonstrated that Germans were NOT just being forced into supporting the Nazis. The result gave a massive boost to Hitler's prestige and provided him with authority to advance his demands for unity with Austrian and the Sudeten Germans.	
Germany's Weimar Republic. Having experienced the chaos of WW1, many people were more willing to accept governments who used force to impose order and discipline. Hitler, inspired by Mussolini in Italy used the economic chaos in Germany gain to popularity by promising to restore Germany. Hitler		<u>C</u>	Conscription and re-armament 1933-1935: Conscription was specifically forbidden by the Treaty of Versailles. Rearmament had been going on secretly since 1933. In March 1935 Hitler reintroduced conscription. Between 1932-9, the number of soldiers grew from 100,000 to a million, and the number of airplanes grew from 36 to 8250. No country questioned the breach of the Treaty of Versailles. It made Hitler very popular in Germany – it reduced unemployment, it made Germany strong.	
nationalism and lebensrar brutal, fascist police state Why did Britain try to app	used fascist ideals to gain support. For example, nationalism and lebensraum. He then enforced a brutal, fascist police state with himself as Fuhrer. Why did Britain try to appease Hitler? Britain initially pursued a policy of appeasement,		Remilitarisation of Rhineland 1936: Hitler invaded the Rhineland on 7 March 1936, there was no resistance - Britain was not keen to provoke Germany. Hitler openly broke the Treaty of VersaillesHitler's position strengthened and it increased his confidence. It was the start of a feeling that he would always get away with it (Britain & France would always back down). It encouraged Hitler to try to reunite with Austria - Anschluss.	
seeking to give Hitler son	seeking to give Hitler some of what he wanted in order to preserve peace. Arguments 'for' appeasement appeasement		Anschluss with Austria 1938 Hitler invaded Austria (11 March 1938). This broke the Trea of Versailles, but Britain and France did nothing. Hitler was Austrian and many people welcomed the Anschluss. Over 99% voted in favour of union with Germany. The result was influenced by Nazi pressure. There was a feeling that the Treaty of Versailles had been harsh on Germany and Britain should not defend it. It was the first time Hitler had	
the Treaty of Versailles had been unfair to Germany Stalin and the USSR was a greater threat— Hitler might stop him Britain wasn't ready for	Hitler an advantage. Germany was strong they had taken resources of Austria & Czechoslovakia It allowed Hitler to break international	W	tried aggression outside Germany, Hitler's confidence grew. Munich agreement September 1938: In 1938, Hitler tried to take over the Sudetenland. At Munich, on 29 September 1938, Britain and France gave Hitler the Sudetenland. Hitler had gained the Sudetenland without fighting. Czechoslovakia was now defenceless. Britain and France had again shown their weakness, Hitler decided that Britain and France were afraid of him and would not stop him whatever he did.	
anotherwar – it gave chance to prepare. How do historians judge significance? Remembered: The event/development was important to a large group of people Resulting in change: It had consequences for the future. Did is cause other events? Revealing: It reveals some other aspect of the past or further details about another event or individual. Remarkable: The event/development was/is remarked upon – unusual/unexpected		<u>C</u>	<u>Czechoslovakia March 1939:</u> Hitler's troops marched into the rest of Czechoslovakia. This broke the Munich agreement. There were no German speaking people there and no demand from the people to join Germany. Hitler had proved to Chamberlain that he could not be trusted.	
		<u>U</u>	USSR/NAZI PACT – Nazi-Soviet Pact August 1939: In August 1939, Hitler made a secret treaty with Russia. Both countries agreed not to attack each other. Germany was to attack Poland from the west, the USSR to attack from the east. Hitler felt free to attack Poland. He thought Britain would back down as it had at Munich, especially as Danzig was German & the Polish Corridor separated Germany from East Prussia.	
		<u>P</u>	Poland September 1939: The German army invaded Poland on 1 September 1939. Chamberlain tried to get them to withdraw and hold a peace conference. This failed, 38 and on 3 September 1939 Britain declared war on Germany.	

Was Dunkirk a colossal military disaster? On 10 May 1940, the German army entered France, capturing Paris on 14 June. The British Expeditionary Force (BEF), which had been sent to France to try and stop the German invasion, had to retreat. They reached the English Channel and waited on beaches at Dunkirk to be rescued. Britain organised a huge evacuation effort, **sending over a whole** range of naval and civilian boats to pick up the stranded soldiers. Dutch, Belgian, French and Norwegian ships were also involved in the operation. The evacuation was considered to be a success, with 340,000 French and British soldiers brought back to England in one week. However, there were also big losses: over 68,000 soldiers were killed, wounded, captured or unaccounted for. Over 400 tanks, six destroyers and 145 aircraft were also lost. These losses were hugely damaging to the war effort. The evacuation of the British Army was going on for 4 days before the British government told the people at home what was going on. The British newspapers were

As Britain is an island, Germany needed to send soldiers in by sea to invade successfully. To do this safely, they would need to have control of the skies over the English Channel, so the German Luftwaffe needed to defeat the British RAF. The Luftwaffe heavily outnumbered the RAF. During the Battle of Britain, they had 2,550 fighter planes available, while the RAF only had 749. British pilots were also less experienced that the Luftwaffe pilots. By September 1940, the Luftwaffe was not able to sustain the losses it was experiencing. Germany had underestimated the strength and skill of the RAF. The success of Britain's air force owed a great deal to the contributions of the British Empire: Jamaica, Canada, Australia and New Zealand. The RAF's ranks were also boosted by pilots from Poland and Czechoslovakia, who had escaped capture by the German military. Members of the Women's Auxiliary Air Force (WAAF) played a vital role. Many women were employed as plotters. This involved tracking German planes as they made their way to Britain, and keeping an eye on how many aircraft were coming.

How did Britain win the Battle of Britain?

How truthful was 'Blitz Spirit'? (THE BLITZ IN MANCHESTER)

told to keep quiet and then to write what they

were told to report by the government.

'Blitz spirit' is a term used to reflect the endurance of pain or hardship without complaint and to show determination in a difficult or dangerous situation. The government had realised the importance of using propaganda to maintain morale and support for the war. For 57 days, London was bombed night and day and fires raged through the city. The government wanted to create the idea of a 'Blitz Spirit' so that, despite the bombing and damage being caused, British people would carry on their lives as normal. The Ministry of Information oversaw the stories that newspapers were printing. They censored information about planned military operations and details of troop movements. When the Blitz ended in May 1941, over 300,000 Londoners were dead and thousands more injured and homeless. The aim of the German bombings was to frighten the British people and so force British politicians to negotiate a peace. The British government had to make sure people stayed focused on the war effort, on the need to win and to keep their morale high. The Ministry of Information wanted people to feel as though life was carrying on as normal.

MANCHESTER was hit by two nights of air raids in December 1940. These are often referred to as the 'Christmas Blitz'. As a result of these raids, an estimated 684 people died and more than 2,000 were injured. During the air raids on 22-24 December, the Metropolitan-Vickers works in Mosley Road was just one of the area's factories to be badly damaged. In a later raid on Trafford Park in March 1941, Manchester United's Old Trafford football ground was hit by a bomb and put out of action until 1949.

Was Britain strong enough to fight alone?

World War Two was not the first time that Britain sought help from countries from across the British Empire. Many nations whose soldiers made a valuable contribution to the war effort from 1939 – 1945 had already fought alongside British troops during World War One. When World War Two broke out, India was not self-governed. This meant that they were ruled directly by the British government, so the decision for them to join the war and fight with Britain was taken in London. Men from the Caribbean, sometimes also called the West Indies, who joined the war effort were placed in their own Caribbean Regiment. The Caribbean Regiment had 10,000 volunteer troops. There were still racist attitudes in the British armed forces. A ban on Black people serving in the Royal Air Force (RAF) was lifted in World War Two. 320,000 men in total were recruited from East Africa. The British Army also recruited 200,000 men from **West Africa**. This included setting up an RAF base in Sierra Leone to search for submarines. **There was also** contributions from Nepal, Australia and New Zealand.

Why did the USA enter the war?

The USA had remained neutral when WW2 broke out. However, American President Franklin Roosevelt was keen to provide support to Britain. On 7 December 1941 Japan carried out a surprise attack on the American Naval base at Pearl Harbor, in Hawaii. The bombing followed several years of rising tension between Japan and the USA. The USA had imposed economic sanctions on Japan, which affected trade in goods such as oil and aircraft, and prevented Japan from becoming a bigger global power. The USA did not expect Japan to attack them in Hawaii. Japan took advantage of this in the knowledge. On 8 December, the US declared war on Japan and Germany. This was one of the turning points in the war, resulting in American troops and supplies joining the war in Europe to support Britain. The support of American forces was crucial for Britain. By early 1944, plans were being made to return to France to try and push Germany back. The landings took place on 6 June 1944. This was known as D-Day. 160,000 troops landed on the Normandy beaches; over 4,000 lost their lives. The invasion was a success, and German forces were driven back. By February 1945, the Allies were confident enough of victory that they met at Yalta to discuss how to rebuild Europe and recover from the effects of war. In April 1945, Allied troops entered Berlin. Hitler, realising that defeat was now inevitable, died by suicide on 12 April. Germany surrendered on 8 May. This is known as VE Day (Victory in Europe Day)

computer Scienc

CS - Computational thinking

Sorting algorithms

Bubble sort

- · The first two values are compared
- · The larger is placed first
- The next two values are compared and order is swapped
- · Repeat until the items are in order

Merge sort

- Repeatedly split data into halves until each bit contains only one item
- Merge the items back together in the order required

Insertion sort

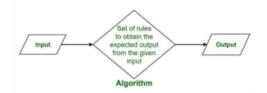
- · Each item is examined
- Higher values are left in the same place, lower values are compared with each until they can be inserted into the correct place.
- · Repeat until the list is in the correct position

Searching algorithms

Binary search

- · Look for the specific item in an ordered list
- Compare with the middle value deciding if it is higher or lower
- Taking the half of the list and once again find the middle item
- · Repeat the profess until the specific value is found

What is Algorithm?



Thinking computationally is not programming. It is not even thinking like a computer, as computers do not, and cannot, think. Simply put, programming tells a computer what to do and how to do it. Computational

thinking enables you to work out exactly what to tell the computer to do.

Standard Flow Chart Symbols

	Used at the start or end point of a flow diagram.
	Used to represent the input or output of data in a process.
\Diamond	Used when a decision or choice must be made.
	A process symbol, used to indicate a process or computational task being carried out.
	Used to represen a sub-routine that can be called at various points of an algorithm.

Computational Shriking Abolivation Alphonomical Alphono
inking involves taking that complex prob ries of small, more manageable problem aller problems can then be looked at ind

Computational thinking involves taking that complex problem and breaking it down into a series of small, more manageable problems (decomposition). Each of these smaller problems can then be looked at individually, considering how similar problems have been solved previously (pattern recognition) and focusing only on the important details, while ignoring irrelevant information (abstraction). Next, simple steps or rules to solve each of the smaller problems can be designed (algorithms).

	Key Terms	Definition
	Searching algorithm	Searching for information based on a given criterion is a common task for computer algorithms.
	Sorting algorithms	Sorting data means that data is generally easier to search, and it allows for more efficient algorithms.
١	Binary Search	First of all, for binary search to work, the list must be arranged in an order. Binary search is a faster method for searching for an item that is in an ordered list. A binary search algorithm takes the data and keeps dividing it in half until it finds the item it is looking for
l	Algorithm	A sequence of logical instructions for carrying out a task. In computing, algorithms are needed to design computer programs.
	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.
	Bubble sort	A bubble sort algorithm goes through a list of data a number of times, comparing two items that are side by side to see which is out of order. It will keep going through the list of data until all the data is sorted into order. Each time the algorithm goes through the list it is called a 'pass'.
	Merge sort	The merge sort was developed to handle the sorting of large lists. It does this by breaking them down into multiple smaller lists, quickly sorting them, and then merging them back together into one larger list
/	Insertion sort	An insertion sort is less complex and efficient than a merge sort, but more efficient than a bubble sort.

COMPUTER SCOENCE CYBERCROME

- Harms your computer in some way, usually by deleting or altering files and stopping programs from running.
- Starts by
 pretending to be
 a trusted file, but
 gives unauthorise
 d access to your
 computer when
 you run it.
- Worms are
 difficult to get rid
 of. They copy
 themselves over
 networks
 to external
 storage devices
- Collects
 information from
 your computer
 and sends it to
 someone.
- Tricks you into thinking it's software that you need to buy.
- A logic bomb tells the computer to execute a set of instructions at a certain date and time or under certain specified conditions
- Ransomware is software illegally installed on a computer so that the user cannot access their files until a ransom is paid
- Tricking someone into giving out information over email. They usually include a link to a fake website that looks identical to the real one.



Common malware types

Browser

 Hijacks some browser functions, for example your default search page, or diverts you to particular websites. Also called Spyware

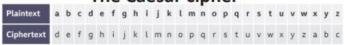
File infector

 The virus infects a particular file. It may completely or partially overwrite the file

Macro virus

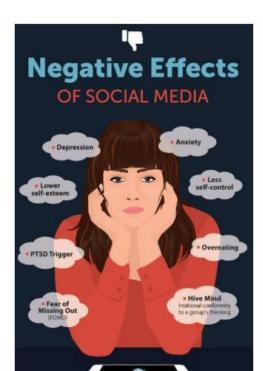
 Embedded in the template files (for example, of Word or Excel). The virus spreads if the file is opened on a different computer





A simple method of encryption requires the use of a technique known as the Caesar cipher. Each **plaintext** letter is replaced by a new letter - the one found at the original letter's position in the alphabet plus or minus the value of the key.

For example, a key value of +three would change the plaintext message "see you tonight" to the **ciphertext** message "vhh brx wrqljkw".





Hacking is when someone accesses your computer or the data held on it without your permission or knowledge. Hackers generally come in one of three forms: Black Hat, White Hat, and Grey Hat

White Hat

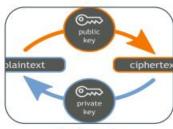
- · White-Hat Hackers are also known as Ethical Hackers.
- They are certified hackers who learn hacking from courses.
- These are good hackers who try to secure our data, websites. With the rise of cyberattacks, organizations and governments have come to understand that they need ethical hackers.

Black Hat

- · They hack systems illegally.
- They use their skills to deceive and harm people.
- They conduct various attacks, write malware, and damage system security.
- They steal users' passwords, data, and credit card information by damaging system security.

Grey Hat

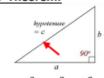
- These types of hackers find vulnerabilities in systems without the permission of owners.
- They don't have any malicious intent. However, this type of hacking is still considered illegal.
- They find issues and report the owner, sometimes requesting a small amount of money to fix it.



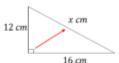
Cryptography

- Encryption is when you put data/text into code making it difficult to read or understand. A cipher is the key to an encrypted message. Decryption is when the encrypted message is no longer ciphertext but plaintext meaning we can now read it.
- Like all methods of disguise, encryption is of little use if unauthorised users know the key. They can use it to unlock any message that is encrypted with that key.
- One way around this issue is to use an algorithm that generates two keys - a public key and a private key. This method is known as asymmetric encryption. A public key can be given to anyone. Anyone can then use this key to encrypt a message. However, the public key cannot decrypt a message only the second key (the private key) can do that. So long as the private key is never given out, messages will stay safely

Pythagoras' Theorem:



$$c^2 = a^2 + b^2$$



$$a^{2} + b^{2} = c^{2}$$

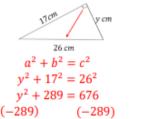
$$12^{2} + 16^{2} = x^{2}$$

$$144 + 256 = x^{2}$$

$$x^{2} = 400$$

$$(\sqrt{)} \qquad (\sqrt{)}$$

$$x = 20cm$$



 $y^2 = 387$ $(\sqrt{}) \qquad (\sqrt{})$

 $y = \sqrt{387} \ cm \ or \ y = 19.7 cm (3sf)$

Sequences

Find the first 5 terms of the sequence with *nth* term:

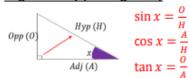
$$3n^{2}+2 = \begin{bmatrix} Eg: n=2 \\ 3x(2^{2})+2=14 \end{bmatrix}$$

$$= 1 \quad n=2 \quad n=3 \quad n=4 \quad n=5$$

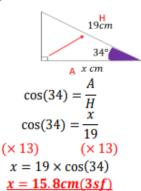
$$= 14 \quad 29 \quad 50 \quad 77$$

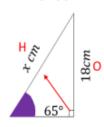
$$= 17 \quad Term 1 \quad Term 2 \quad Term 3 \quad Term 4 \quad Term 5$$

Trigonometry (Finding Sides)



Use the word <u>SOHCAHTOA</u> to help you remember!





$$\sin(65) = \frac{0}{H}$$

$$\sin(65) = \frac{18}{x}$$

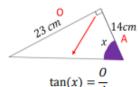
$$(\times x) \qquad (\times x)$$

$$x \times \sin(65) = 18$$

$$(\div \sin(65)) \qquad (\div \sin(65))$$

$$x = \frac{18}{\sin(65)} = 19.9cm(3sf)$$

Trigonometry (Finding Angles)



$$\tan(x) = \frac{A}{14}$$

$$(\tan^{-1}) \quad (\tan^{-1})$$

$$x = \tan^{-1}(\frac{23}{14})$$

$$x = 58.7^{\circ}(3sf)$$

Compound Interest:

£2000 is paid into an account that pays 4.8% compound interest per annum (pa). The amount in the account after 3 years is:

$$£2000 \times 1.048^3 = £2302.05(2dp)$$

Reverse Percentages:

A Football shirt is reduced by 17%. It now costs £51.66. The original cost was:

$$51.46 \div 0.83 = £62$$

A House increases in price by 16%. It is now worth £162,400. The original price was:

$$162400 \div 1.16 = £140,000$$

Averages from Grouped Frequency Tables:

Height,	Freq	Midpoint,	$m \times Freq.$
h (cm)		m	
$0 < h \le 10$	15	5	$5 \times 15 = 75$
$10 < h \le 20$	37	15	15 × 37
			= 555
$20 < h \le 30$	26	25	25 × 26
			= 650
$30 < h \le 40$	22	35	35 × 22
			= 770
Total	100		2050

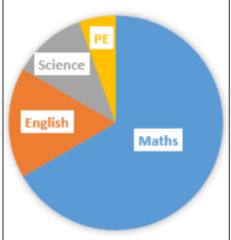
Estimate for the Mean = $\frac{2050}{100}$ = 20.5cm Using midpoints gives us an estimate as exact values are unknown

Modal Class = $10 < h \le 20$ (The category with the biggest frequency!)

Class in which the Median lies: The median is the $\left(\frac{n+1}{2}\right)^{th}$ Value. There are 20 people, so the median is the $\left(\frac{100+1}{2}\right)^{th}=55.5^{th}$ Value. The median is therefore in the $20 < h \leq 30$ category!

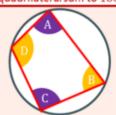
Pie Charts: Subject Frequency Angle = Magic Number \times Freq. Maths 12 $18 \times 12 = 216^{\circ}$ English 3 $18 \times 3 = 54^{\circ}$ Science 2 $18 \times 2 = 36^{\circ}$ PE 1 $18 \times 1 = 18^{\circ}$ Total = 20 $18 \times 1 = 18^{\circ}$

Degreees Per Person = 360 ÷ Total Frequency = 360 ÷ 20 = 18

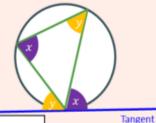


Circle Theorems Angle at the centre is twice Angle subtended at circumference Tangents and radii Tangents from a point by a semicircle is 90° have equal length the angle at the circumference meet at 90° Tangent just touches the circumference Opposite angle to the diameter! Look for the 'Arrow' Shape! Angles in the same segment Opposite angles in a cyclic Alternate Segment Theorem are equal quadrilateral sum to 180°





 $A + C = 180^{\circ}$



Look for the 'Bow' Shape!

Plotting Quadratic Graphs:

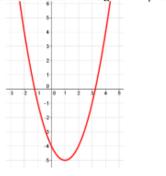
$$y = x^2 - 2x - 4$$

When $x = -2$, $y = (-2)^2 - (2 \times -2) - 4 = 4$							
x	-2	-1	0	1	2	3	4
y	4	-1	-4	-5	-4	-1	4

Coordinates are (-2, 4), (0,-4) etc.

Plot these coordinates on a coordinate grid and plot a

SMOOTH curve.



Plotting Linear Graphs:

$$y = 3x - 5$$

When $x = 2$, $y = (3 \times 2) - 5 =$	1	1
---	---	---

x	-2	-1	0	1
y	-11	-8	-5	-2

Coordinates are

(-3, -14), (-2,-11) etc.

Plot these coordinates on a coordinate grid and join them together to form a STRAIGHT

LINE



Volume

Volume of Prism

= Cross sectional area

 \times Length

Volume of Cylinder $=\pi r^2 h$

Solving Simulatenous Equations using Elimination

$$4x + 7y = 15$$

(1)

$$5x - 2y = 8$$

(2)

Make the coefficient of x or y the same to eliminate one of the vaiables

$$(1) \times 2 \Rightarrow 8x + 14y = 30$$

$$(2) \times 7 \Rightarrow 35x - 14y = 56$$

Add the two equations together as the signs of y are different

$$43x = 86$$

(÷ 43) (÷ 43)
 $x = 2$

To find our y value, we need to substitute x=2 into either equation. Using equation 1:

$$(4 \times 2) + 7y = 15$$

 $8 + 7y = 15$
 (-8) (-8)
 $7y = 7$
 $(\div 7)$ $(\div 7)$
 $y = 1$
Solution: $x = 2, y = 1$

$$3x + 5y = 14 \tag{1}$$

$$7x + 2y = 23 \tag{2}$$

Make the coefficient of x or y the same to eliminate one of the variables

$$(1) \times 7 \Rightarrow 21x + 35y = 98$$

 $(2) \times 3 \Rightarrow 21x + 6y = 69$

<u>Subtract</u> the two equations together as the signs of xare the same

$$29y = 29$$

(÷ 29) (÷ 29)
 $y = 1$

To find our x value, we need to substitute y = 1 into either equation. Using equation 2:

$$7x + (2 \times 1) = 23$$

 $7x + 2 = 23$
 (-2) (-2)
 $7x = 21$
 $(\div 7)$ $(\div 7)$
 $x = 3$
Solution: $x = 3$, $y = 1$

9A Half-term 4

Areas of 2D Shapes:

Rectangle = $base \times perpendicular \ height$

Triangle =
$$\frac{base \times perpendicuclar\ height}{2}$$

 $Parallelogram = base \times perpendicular height$

Trapezium =
$$\frac{(a+b)\times h}{2}$$

Generating Sequences

Find the first 3 terms of the sequence with nth term: $3n^2 - 7$

$$n = 1, \Rightarrow (3 \times 1^2) - 7 = -4$$

 $n = 2, \Rightarrow (3 \times 2^2) - 7 = 5$
 $n = 3, \Rightarrow (3 \times 3^2) - 7 = 20$

Find the first 3 terms of the sequence given by: n(n-4)

Remember:
$$n(n-4) = n \times (n-4)$$

 $n = 1, \Rightarrow 1 \times (1-4) = 1 \times -3 = -3$
 $n = 2, \Rightarrow 2 \times (2-4) = 2 \times -2 = -4$
 $n = 3, \Rightarrow 3 \times (3-4) = 3 \times -1 = -3$

Finding the nth term

The sequence goes up in 2's like the 2 times table. We write this as: 2n

Each term is 3 bigger than the 2 times table so we need to +3. Therefore, the nth term is:

$$2n + 3$$

Fibonacci Sequence

Add the two previous terms to get the next.

$$(1+1=2,1+2=3,2+3=5 etc.)$$

Percentage of Amounts without a Calculator:

$$47\% \ of \ £120$$

 $10\% = £12 \Rightarrow 40\% = £12 \times 4 = £48$
 $1\% = £1.20 \Rightarrow 7\% = £1.20 \times 7 = £8.40$

Add these two answers together to get 47%:

$$£48 + £8.40 = 56.40$$

Percentage Decrease without a calculator

1.) Decrease £48 by 13% 13% of £48 = £6.24

2.) To decrease, SUBTRACT the £6.24. New Amount = £48 - £6.24 = £41.76

Percentage Decrease with a Calculator:

Decrease £48 by 13%

$$100\% - 13\% = 67\%$$

 $67\% \times £48 = £41.76$

Other Sequences:

Squares: 1, 4, 9, 16, 25 ...

nth term: n^2

Cubes: 1, 8, 27, 64, 125 ...

nth term: n^3

Triangular Numbers: 1, 3, 6, 10, 15 ...

nth term: $\frac{n(n+1)}{2}$

Percentage of Amounts with a Calculator:

$$47\% \ of \ £120$$

 $47\% \times 120 = £56.40$

To use the Percentage Button on your calculator, press <u>SHIFT</u> and then the (button.

Percentage Increase with a Calculator:

Increase £48 by 13%

$$100\% + 13\% = 113\%$$

 $113\% \times £48 = £54.24$

Percentage Increase without a calculator

1.) Increase £48 by 13% 13% of £48 = £6.24

2.) To increase, ADD on the £6.24. New Amount = £48 + £6.24 = £54.24

Calculating Percentage Change:

 $Percentage\ Change = \frac{Difference}{Original} \times 100$

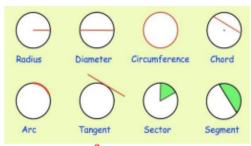
A new car is valued at a price of £17000. 4 years later it is valued at £9450.

The Percentage Change is:

$$\frac{17000 - 9450}{17000} \times 100 = 44.4\%(1dp)$$

The car has lost 55.6% of its original value

9B Half-term 3



Area of a Circle = πr^2 Circumference of a Circle = $\pi d = 2\pi r$

A Circle has radius 5cm. The area and circumference are as follows:

Area =
$$\pi \times 5^2 = 25\pi$$
 $cm^2 = 78.5cm^2(1dp)$
Circumference = $\pi \times 10 = 10\pi$ $cm = 31.4cm(1dp)$

Dividing into a Ratio:

Share £480 in the ratio 3:5:4 3+5+4=12 $1 Part = £480 \div 12 = £40$

Ratio:

Tom has 24 Xbox games and 38 PS4 games. The ratio of PS4 games to Xbox games is:

9B Half-term 4

Recipes and Proportion:

8 People:

400g Pasta
2 Tins Chopped Tomatoes
1 Onion
4tbsp Tomato Puree

To find the recipe for 6 people, divide each amount by 8 and then multiply by 6:

6 People:

$$(400 \div 8) \times 6 = 300g Pasta$$

$$(2 \div 8) \times 6 = 1.5 Tins Tomato$$

$$(1 \div 8) \times 6 = \frac{3}{4} Onion$$

 $(4 \div 8) \times 6 = 3tbsp Puree$

Ratio

Billy and James have some sweets in the ratio **9:2**. Billy has **35 more** sweets than James. How many sweets are there altogether?

Billy has 7 more parts than James.

$$1 Part = 35 \div 7 = 5.$$

$$2 Parts = 2 \times 5 = 10$$

$$9 Parts = 9 \times 5 = 45$$

Total Number of sweets = 45 + 10 = 55

Area and Perimeter of Part Circles:



Radius = 6cm Diameter = 12cm

12cm

Area =
$$\frac{\pi r^2}{2} = \frac{\pi \times 6^2}{2} = \frac{36\pi}{2} = 18\pi \ cm^2 = 56.5cm^2(1dp)$$

Perimeter = Curved Edge + Straight Edge

Curved Edge =
$$\frac{\pi d}{2} = \frac{\pi \times 12}{2} = 6\pi \ cm = 18.8cm \ (1dp)$$

Perimeter = 12 + 18.8 = 30.8cm (1dp)

Sample Space Diagrams

We use sample space diagrams to list all outcomes when carrying out two probability experiments at the same time

Player 2

Rock Paper Sci

	Rock	Paper	Scissors
Rock	RR	RP	RS
Paper	PR	PP	PS
Scissors	SR	SP	SS

$$P(Scissors) = \frac{3}{9}$$

Player 1

	+	1	Z	3	4	5	ь
	1	2	3	4	5	6	7
ı	2	3	4	5	6	7	8
1	3	4	5	6	7	8	9
1	4	5	6	7	8	9	10
1	5	6	7	8	9	10	11
,	6	7	8	9	10	11	12

.

$$P(Prime) = \frac{15}{36} = \frac{5}{12}$$

Combining Ratios

In a field, the ratio is Cows to Pigs is 3:4 and the ratio of Pigs to Sheep is 6:1. The ratio of Cows to Pigs to Sheep is Given by:

C:P	P:S
3:4	6:1

We need to make the number of Pigs the same as they are common to both ratios

C:P	Pis
9:12	12:

C:P:S 9:12:2

Y9 Music HT3&4 Sequencing, Main Element Focus:Texture

DAW - Digital Audio Workstation: GarageBand/LogicProX

Texture describes how layers of sound within a piece of music interact.

Melody The main tune

Harmony The chords that support the melody

<u>Layering</u> Introducing each new sound one by one. The addition of each layer creates a thicker texture.

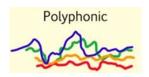
<u>Monophonic</u> music has only one melodic line, with no harmony or counterpoint.



<u>Homophonic</u> music has one clear melodic line; it's the line that naturally draws your attention. All other parts provide accompaniment.

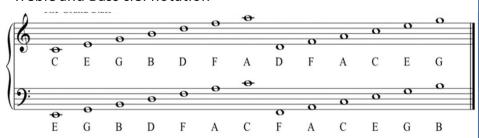


<u>Polyphonic</u> music has more than one independent melody is occurring at the same time, the music is polyphonic.

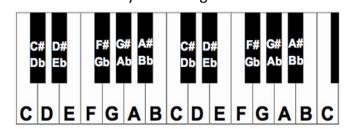


Y9 Music HT3&4 Sequencing

Treble and Bass clef notation



Piano keyboard diagram



Velocity Shaping altering the dynamic level of a layer



Music

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What do Christians believe is right & wrong? Year 9 Topic 3 - Religion, Philosophy & Ethics

Key Terms	Definition
Ethics	Moral principles that govern a person's behaviors
Moral Principles	Ideas that we try to follow in our attempt to live right and be good people
Moral Dilemma	A situation where a person must make a decision about what is right and wrong
Situation Ethics	A theory that to decide what is right and wrong we must consider the situation first
Parable	A story used to demonstrate a moral teaching, by Jesus in the Bible
Stewardship	is caring for others and the environment for the benefit of future generations

■ Bibleinfo

You shall not murder

You shall not steal

You shall not covet

NEIGHBOR

You shall not bear false

witness against your neighbor

You shall not commit adultery

Ten

Commandments

gods before Me

You shall have no other

You shall make no idols

You shall not take the name

of the Lord your God in vain

Keep the Sabbath day holy

Honor your father and

"The greatest happiness for the areatest number" Jeremy Bentham (Utilitarianism)

"Only one thing is intrinsically good, Fletcher (Situation Ethics)

"Love your neighbour" Jesus, Bible

namely love" Joseph

Christian Ethical Teachings

The Ten Commandments are written in the Old Testament (Jewish Torah). They outline five ways someone should show love to God and five ways someone should show love to their neighbour.

Jesus was born Jewish but rejected Jewish beliefs to promote a new covenant (set of beliefs) which is now known as Christianity.

When asked which of the Jewish teachings (10 Commandments) were most important Jesus said the Greatest Commandment is to Love God and Love your neighbour.

Parables like the Sheep and Goats explain how someone can do this.

Situation Ethics

Focuses on doing the most loving thing in the situation

This ethical theory takes the situation into account before deciding on what is right and wrong.

- Christian Philosopher Joseph Fletcher developed the theory of situation ethics in the 1960's, in his book entitled Situation Ethics.
- · Agape love (unconditional love) is at the heart of Christianity and this theory.
- Based on Christian ethics, this theory suggests there are no set moral laws that apply to all circumstances, instead it is important to consider the circumstance and what the most loving thing to do is.
- For example, killing could be considered immoral (wrong) in one circumstance but morally permissible (allowed) in another. As each situation is different, the outcome therefore will be too.
- Weakness: each person's definition and interpretation of love is different so we cannot ensure the most loving action is always carried out





Utilitarianism

Focuses on the amount of happiness the action produces

This ethical theory determines what is right and wrong by focusing on the outcome of happiness (utility).

- Philosopher Jeremy Bentham (18th century) promoted "act utilitarianism" what is morally right is what brings about the greatest happiness for the greatest number.
- Weaknesses: some people have different definitions of what happiness is and the outcome of actions can not always be predicted correctly

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Other Moral Views...

Charity				
Judaism	Tzedaka means giving to those in need. Jews are taught to give one tenth of their wealth to the poor to help them survive.			
Christianity	The Bible has many teachings that encourage giving to charity although here is no set amount. Parables such as the Sheep & the Goats encourage charity which will be rewarded in heaven.			
Islam	Zakat is the Muslim duty to give to charity in order to reduce suffering in the world. Muslims believe that paying Zakat purifies, increases and blesses the wealth they have left. After bills, Muslims are taught to give 2.5% of any remaining wealth to charity			











Humanist (atheist) Ethics

Humanists actively seek to live good lives without following a religion. Their moral values are based on human nature and life experiences. Humanists base their moral principles on reason, shared human values and respect for others. They believe people should work together to improve the quality of life for all. Thinkers such as Charles Darwin, Marie Curie and George Eliot have all influenced Humanism.

Ethical Decisions -To live good lives, decisions must be weighed up for their positive and negative consequences for all. Humanists believe there are no perfect decisions.

The British Humanist Association Values

The Dittisit Humanist Association values						
Treating people with fairness and respect.	Respecting and promoting freedom, human rights and the law. Engaging in conversation and discussion with attention to detail.					
Celebrating human achievement, progress	Engaging in conversation and discussion with					

Celebrating human
achievement, progress
and potential.

Engaging in conversatio
and discussion with
attention to detail
and evidence.

Cooperating with others to make good things happen, including with those of different beliefs.



Epistemology – What can I know?

Year 9 Topic 4 - Religion, Philosophy & Ethics

Key Terms	Definition
Epistemology	The study of knowledge, thinking about what we can and cannot know.
Philosophy	A love of wisdom and the study of life's big questions e.g. why are we here?
Empirical Evidence	Evidence that comes from using our senses
Truth	Something that is fact
Scientific Method	The process of find out what is true by applying 6 steps involving observation, testing and critical thinking
Doubt	To be unsure of something, to question if it is true
Universal Doubt	A method of doubting everything you believe in order to find out what is true
Empiricist belief	knowledge comes from our experiences and senses.
Rationalist belief	Knowledge comes from reason and logic, not experiences

Philosophy & Epistemology

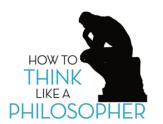
- Philosophers have a love of wisdom and question the world around
- One part of philosophy is epistemology, the study of knowledge and truth.
- Epistemology aims to understand what we can know as truth and fact.
- Many philosophers disagree on how we can know what is real and true. Some like to use their senses and observations of the world, others do not.
- Truth can be found in many different ways; through scientific experiments, from the evidence of historical document, by observation and through spiritual faith.

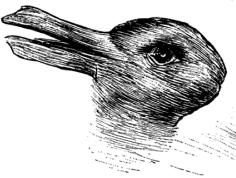
"I think therefore I am" Descartes

"The only reason to believe anything is true is that there's evidence," Dawkins

"Reality is created by the mind, we can change our reality by changing our mind." Plato

"All our knowledge begins with the senses" Kant





All knowledge comes from our senses – Ayn Rand

- Modern philosopher Ayn Rand believed that the only knowledge we can have comes from our senses.
- We cannot know anything through our "instinct" or by spiritual revelation (E.g. God appeared in a dream). We are not born with knowledge.
- Because of this belief, Rand did not believe in any religion or spiritual reality.





We cannot trust our senses; all I can know is that I exist= Descartes

- Rene Descartes was a 17th Century mathematician
- Whilst trying to understand the world, Descartes concluded that we shouldn't accept that anything is true if there is a chance that it isn't.
- Descartes was famous for not trusting his senses and believing we can only know things through thought and logic.
- We have five senses taste, smell, hearing, touch and sight and
 we use them constantly to understand the world. However our
 senses can be fooled. For example optical illusions may show a stick
 bending when it is placed in water.
- Because our senses can't be trusted, everything we believe about the world may be wrong.
- However, we are able to know one thing... that we exist. Our ability to doubt is proof that we exist.
- This led to the famous phrase "cogito, ergo sun" (I think, therefore I am)



Epistemology - What can I know?

Year 9 Topic 4 - Religion, Philosophy & Ethics

The truth about reality is in our minds - Plato

- Plato was a famous Greek philosopher born in the 4th century BC.
- A student of Socrates and teacher of Aristotle, Plato studied with some of the greatest philosophers.
- Plato wrote 36 dialogues discussions between characters on philosophical issues.
- Plato's questioned what is real in his Allegory of the Cave. The allegory is a short story about three prisons in a cave, they have been chained up since birth facing a wall where shadows of passers by are cast. The prisoners have never seen anything outside of the cave, to them the shadows are real. They give the shadows names life 'dog' and 'hat'. Eventually one prisoner is freed and leaves the cave. At first he is blinded by the sun but soon he sees reality he the shadows are imperfect copies of things passing by and, in fact, the shadows are not living things like him. He goes back to the cave to inform the other prisoners but do not believe him, they think he is crazy.
- Plato's story is meant to make us question reality. Is there something "more real" than what we experience in this life? Plato used this story to demonstrate that we cannot trust our senses.
- Plato believed that, just as a shadow is an imperfect copy of an object, our world could be an imperfect copy of something else (what he called 'the forms').
- Some people have likened this allegory to humans existing within a game like Sims.



We cannot know everything about reality, but we should trust our senses - Kant

- 18th Century philosopher, Immanual Kant, was raised very religious but instead of following religion Kant focused his life on what it means to be a good person.
- Kant was an empiricist, he believed that we could trust our sense to find truth, however he argued there were some things we would never know, some things our senses could not tell us. He claimed the world was divided into two:
- 1. The Phenomenon: The world we can understand though our senses
- 2. The Noumenon: The world we can never understand. We cannot access the noumenon as it is beyond human understanding. Answers to ultimate questions such as 'what is the meaning of life' all exist there and can never be accessed by humans using our senses.

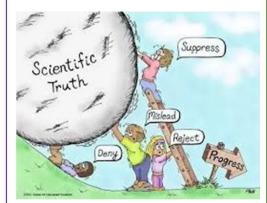


"That all our knowledge begins with experience there can be no doubt."

Immanuel Kant (Critique of Pure Reason)

The truth about reality is found in science – Richard Dawkins

- Modern scientist Richard Dawkins believes that what is true and real can be decided based on scientific studies. He is an atheist because religion cannot be proven scientifically. He used scientific methods to prove or disprove different ideas.
- Dawkins argues that we can learn facts about the world by testing it scientifically. If a test gives the same result every time then we can conclude that it is fact. For example, no matter where in the world someone stands, if they drop something it will always fall to the floor proving gravity exists.
- Using our senses is an important part of scientific investigation and we should trust those senses and use them to find evidence for our beliefs.

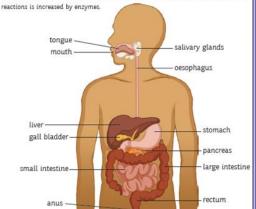


<u>Year 9 Biology Term 2 - Human Biology</u>

Principles of Organisation organism tissue organ organ system Cells are the basic Organ systems work A group of cells with An organ is a Organs work together building blocks of all a similar structure together to form whole combination of tissues within an organ carrying out a specific living things. and function is called system. living organisms. a tissue. function.

The Digestive System

The purpose of the digestive system is to break down large molecules into smaller, soluble molecules, which are then absorbed into the bloodstream. The rate of these



Enzymes

An enzyme is a biological catalyst; enzymes speed up chemical reactions without being changed or used up.



This happens because the enzyme lowers the activation energy required for the reaction to occur. Enzymes are made up of chains of amino acids folded into a globular shape.

Enzymes have an active site which the substrate (reactants)

fits into. Enzymes are very specific and will only catalyse one specific reaction. If the reactants are not the complimentary shape, the enzyme will not work for that reaction. Enzymes also work optimally at specific conditions of pH and temperature. In extremes of pH or temperature, the enzyme will denature. This means that the bonds holding together the 3D shape of the active site will break and the active shape will deform. The substrate will not be able to fit into the active site anymore and the enzyme cannot function.

Enzyme Reactant		Product
amylase	starch	sugars (glucose)
protease	protein	amino acids
lipase	lipid	glycerol and fatty acids

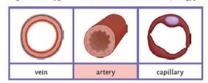
The products of digestion are used to build new carbohydrates and proteins and some of the glucose is used for respiration.

Bile is produced in the liver and stored in the gall bladder. It is an alkaline substance which neutralises the hydrochloric acid in the stomach. It also works to emulsify fats into small droplets. The fat droplets have a higher surface area and so the rate of their digestion by lipase is increased.

The Heart and Blood Vessels

The heart is a large muscular organ which pumps blood carrying oxygen or waste products around the body. The lungs are the site of gas exchange where oxygen from the air is exchanged for waste carbon dioxide in the blood. Oxygen is used in the respiration reaction to release energy for the cells and carbon dioxide is made as a waste product during the reaction.

glucose + oxygen -> carbon dioxide + water + [energy]



The three types of blood vessels, shown above, are each adapted to carry out their specific function.

Capillaries are narrow vessels which form networks to closely supply cells and organs between the veins and arteries. The walls of the capillaries are only one cell thick, which provides a short diffusion pathway to increase the rate at which substances are transferred.

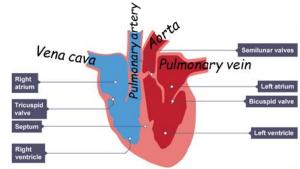
The table below compares the structure and function of arteries and veins:

	Artery	Vein
direction of blood flow	away from the heart	towards the heart
oxygenated or deoxygenated blood?	oxygenated (except the pulmonary artery)	deoxygenated (except the pulmonary vein)
pressure	high	low (negative)
wall structure	thick, elastic, muscular, connective tissue for strength	thin, less muscular, less connective tissue
lumen (channel inside the vessel)	narrow	wide (with valves)

The right atrium receives deoxygenated blood via the vena cava. It is then pumped down through the valves into the right ventricle. From here, it is forced up through the pulmonary artery towards the lungs where it exchanges carbon dioxide for oxygen. The oxygenated blood then enters the left atrium via the pulmonary vein and down into the left ventricle. The muscular wall of the left ventricle is much thicker so it can pump the blood more forcefully out of the heart and around the entire body, via the aorta.

The blood only flows in one direction. This is because there are valves in the heart which close under pressure and prevent the backward flow of blood.



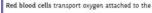


Right side of the heart pumps blood to the lungs as it has less muscle. Left side of the heart pumps blood to the entire body, it has much thicker muscle.

Blood

Blood is composed of red blood cells (erythrocytes), white blood cells and platelets, all suspended within a plasma (a tissue).

The plasma transports the different blood cells around the body as well as carbon dioxide, nutrients, urea and hormones. It also distributes the heat throughout the body.



haem group in their structure. It has a biconcave shape to increase surface area and does not contain a nucleus so it can bind with more oxygen molecules.

White blood cells form part of the immune system and ingest pathogens and produce antibodies. Platelets are important blood clotting factors.

at the lungs

haemoglobin + oxygen 🚧 oxyhaemoglobin

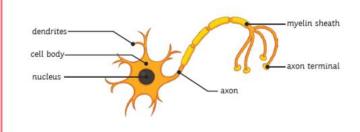
at the cells

ratves Right pum it he of to the much

The Human Nervous System

The nervous system allows a fast, short-lived response to a stimulus in the surroundings. The information is received by a receptor, passed along the neurons (nerve cells) as an electrical impulse and results in a response.

You might have to label the parts of a typical neuron:

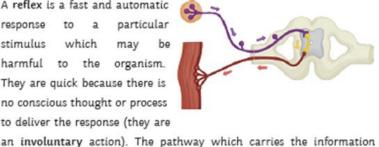


- The axon is the main part of the nerve cell. It is a long, stretched-out fibre of cytoplasm which the electrical impulse will travel along
- Some axons are surrounded in a layer of fatty cells called the myelin sheath and it helps to insulate the electrical impulse.
- The branched endings, dendrites, connect the neurons together to create a network.

nsory neuron	relay neuron	motor neuron
y E	*	Here
λ		34

Reflexes

A reflex is a fast and automatic response particular stimulus which may be harmful to the organism. They are quick because there is no conscious thought or process to deliver the response (they are

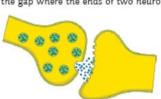


about a reflex action is called a reflex arc.

A reflex arc begins with the stimulus e.g. a bee sting or a hot object on the skin. The stimulus is detected by the receptor cells and an electrical impulse is transmitted along the sensory neuron. The impulse is passed through relay neurons in the spinal cord or the unconscious areas of the brain. The response is coordinated automatically and sent along the motor neuron to the effector cells.

Synapses

A synapse is the gap where the ends of two neurons meet.



The information needs to be passed from one neuron to the next, but cannot be passed as an electrical impulse over the synapse (gap). Instead, the message is transmitted by chemical neurotransmitters.

When the electrical impulse arrives at the terminal of the first neuron, it causes a release of neurotransmitter chemicals into the synapse. They travel across the gap and bind to receptor sites on the terminal of the next neuron.

The receptor sites are specific for each type of neurotransmitter. A nerve impulse will only be created in the second neuron when a complimentary chemical binds.

The Nervous Pathway

A stimulus is a change in the environment (internally or externally). In a typical response to stimuli, this information is received by the receptor and sent as an electrical impulse along a sensory neuron towards the central nervous system (CNS). The CNS is comprised of the brain and spinal cord. Here, the impulse is passed through relay neurons and a response to the stimulus is coordinated. This could be consciously or subconsciously. The CNS sends information about the response along a motor neuron as an electrical impulse. The effector receives the impulse and carries out the response.

 $[\text{stimulus}] \rightarrow \text{receptor} \rightarrow \text{sensory neuron} \rightarrow \text{CNS} \rightarrow \text{motor neuron} \rightarrow \text{effector} \rightarrow [\text{response}]$

Examples of receptors include rod and cone cells within the eye which respond to light and allow us to see. Or it could be the cells in the skin which respond to pressure or temperature changes allowing us to feel.

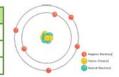
An effector could be a muscle or a gland. In response, a muscle might contract to make a movement or a gland releases a chemical into the body.

Year 9 Term 2 Chemistry - Atoms and Periodic Table

Atoms

Contained in the nucleus are the protons and neutrons. Moving around the nucleus are the electron shells. They are negatively charged.

Particle	Relative Mass	Charge
proton	1	+1
neutron	1	0
electron	Very small	-1



Overall, atoms have no charge; they have the same number of protons as electrons. An ion is a charged particle - it does not have an equal number of protons to electrons.

Equations and Maths

To calculate the relative atomic mass, use the following equation:

relative atomic mass (A,) =

sum of (isotope abundance × isotope mass number)
sum of abundances of all isotopes

Balancing Symbol Equations

There must be the same number of atoms on both sides of the equation:

C = 1

0 = 4

H = 4

Elements

Elements are made of atoms with the same atomic number. Atoms can be represented as symbols.

Ca = calcium

N = nitrogen F = fluorine Zn = zinc

Isotopes – an isotope is an element with the same number of protons but a different number of neutrons. They have the same atomic number, but different mass number.

Isotope	Protons	Electrons	Neutrons
¹ ₁ H	1	1	1-1-0
H	1	1	2 - 1 - 1
3 H	1	1	3 - 1 - 2

 $\label{local_compounds} Compounds - a compound is when two or more elements are chemically joined. \\ Examples of compounds are carbon dioxide and magnesium oxide. Some examples of formulas are CO2, NaCl, HCl, H2O, Na2SO4. They are held together by chemical bonds and are difficult to separate. \\$

Chemical Equations

A chemical reaction can be shown by using a word equation.

e.g. magnesium + oxygen→ magnesium oxide On the left-hand side are the reactants, and the right-hand side are the products.

They can also be shown by a symbol equation.

e.g. 2Mg + O₂ → 2MgO

Equations need to be **balanced**, so the same number of atoms are on each side. To do this, numbers are put in front of the compounds.

Development of the Periodic

In the early 1800s, elements were arranged by atomic mass. The periodic table was not complete because some of the elements had not been found. Some elements were put in the wrong group.

Dimitri Mendeleev (1869) left gaps in the periodic table. He put them in order of atomic mass. The gaps show that he believed there was some undiscovered elements. He was right! Once found, they fitted in the pattern.

The Modern Periodic Table

Elements are in order of atomic mass/proton number. It shows where the metals and non-metals are. Metals are on the left and non-metals on the right. The columns show the groups. The group number shows the number of electrons in the outer shell. The rows are periods – each period shows another full shell of electrons. The periodic table can be used

The periodic table can be used to predict the reactivity of elements.



History of the Atom

Scientist	Time	Discovery
John Dalton	start of 19th century	Atoms were first described as solid spheres.
JJ Thomson	1897	Plum pudding model – the atom is a ball of charge with electrons scattered.
Ernest Rutherford	1909	Alpha scattering experiment – mass concentrated at the centre; the nucleus is charged. Most of the mass is in the nucleus. Most atoms are empty space.
Niels Bohr	around 1911	Electrons are in shells orbiting the nucleus.
James Chadwick	around 1940	Discovered that there are neutrons in the nucleus.

Electronic Structure

Electrons are found in shells. A maximum of two in the most inner shell, then eight in the 2nd and 3rd shell. The inner shell is filled first, then the 2nd then the 3rd shell.



Ions are charged particle. They can be either positively or negatively charged, for example Na⁺or Cl⁻

When an element loses or gains electrons, it becomes an ion.

Metals lose electrons to become positively charged.

Non-metals gain electrons to become negatively charged.

Group 1 and 2 elements lose electrons and group 6 and 7 elements gain electrons.

Group	Ions	Element Example
1	+1	Li → Li ⁺ + e-
2	+2	Ca → Ca ²⁺ + 2e ⁻
6	-2	Br + e⁻→ Br⁻
7	-1	O + 2e ⁻ → O ²⁻

Metals and Non-metals

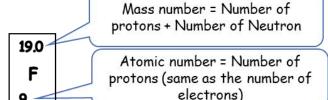
They are found at the **left** part of the periodic table. Non-metals are at the **right** of the table.

Metals

Are strong, malleable, good conductors of electricity and heat. They bond metallically.

Non-Metals

Are dull, brittle, and not always solids at room temperature.



Finding out electrons: Overall an atom must be neutral this means that the number of positive protons is equal to the number of negative electrons.

Electromagnetic induction Turning a magnet in a coil of wire (or vice versa) creates an alternating current in the wire. This where the electrons flow back and forth. This is how generators work.

Year 9 Term 2 Physics - Magnets and Electromagnets

Poles of a Magnet

A magnet has two ends called poles: the north pole and the south pole. The magnetic forces of the magnet are strongest at the poles.



When two magnets are brought close together, they will attract or repel, depending on which poles are brought together:

- · Like poles will repel one another e.g. N-N
- · Opposite poles will attract e.g. N-S.

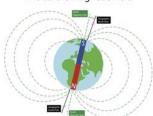
The forces exerted between the poles of two magnets are a type of non-contact force: the magnets do not have to be touching for the effect to be observed.

Remember that only iron, cobalt and nickel (or alloys containing these metals) are magnetic.

A permanent magnet is one with its own magnetic field. The magnetism cannot be turned on or off e.g. a bar magnet or a horseshoe magnet.

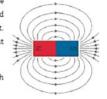
An induced magnet is a material which becomes magnetic only when placed within a magnetic field. Induced magnets only attract other materials and lose most (if not all) of their magnetism when removed from the magnetic field e.g. iron filings.

The Earth's Magnetic Field



Magnetic Fields

The magnetic field is the area surrounding a magnet where the force is acting on another magnet or magnetic material. It can be observed using a compass placed at different points around a bar magnet. The field lines can be drawn by using the compass to mark the direction at a range of points.

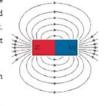


A magnet always causes a magnetic material to be attracted. The strength of the magnetic field is determined by the proximity to the magnet.

When looking at a diagram of magnetic field lines, the force is strongest where the lines are closest together. The magnetic field of the magnet is strongest at the poles. The direction of the magnetic field shows the direction the force would act on another north pole.

As a result, magnetic field lines always come away from the north pole (like poles repel) and towards the south pole (unlike poles attract).

The earth produces a magnetic field and a magnetic compass uses this to help aid navigation. The core of the earth is made of iron (a magnetic material). A compass contains a small bar magnet shaped as a needle, which points in the direction of the earth's magnetic field.

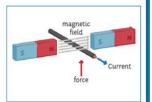


The Motor Effect and Flemings Left-Hand Rule

When a wire with a current flowing is placed in a magnetic field, it experiences a force. This is called the motor effect.

The size of the force can be calculated:

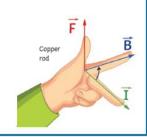
Force = magnetic field strength x length x



The force on the wire, direction of current and direction of the magnetic field are all at right angles to one another. You can work out the directions using your left hand.

Thumb represent the force on the wire First finger represent the direction of the

Second finger represents the direction of the



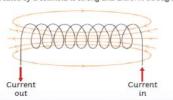
Electromagnetism

A circular magnetic field is produced when a current is passed through a conducting wire. This produces an induced

Switching off the current causes the magnetism to be lost.

The strength of the magnetic field can be increased by increasing the current flowing through the wire. The strength of the magnetic field is stronger closer to the wire.

Coiling the wire to form a solenoid will also increase the strength of the magnetic field. The strength of the magnetic field created by a solenoid is strong and uniform throughout.



To increase the strength of the magnetic field around a solenoid you can...

- add an iron core;
- increase the number of turns in the coil;
- increase the current passing through the wire.

An electromagnet is a solenoid with an iron core. Electromagnets are induced magnets and can be turned on and off.



Electric motors, loudspeakers, electric bells and remotely controlled door locks all use electromagnets.

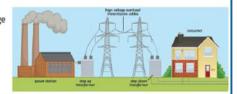
In the generator, a magnet turns inside a coil of wire. The turbine turns the magnet.

The National Grid

The National Grid is a system of cables and transformers. They transfer electrical power from the power station to where it is needed. Power stations are able to change the amount of electricity that is produced to meet the demands. For example, more energy may be needed in the evenings when people come home from work or school. Electricity is transferred at a low current, but a high voltage so less energy is being lost as it travels through the cables.

Step-up transformers - increase the voltage as the electricity flows through the cables.

Step-down transformers - decrease the potential difference to make it safe.



Year 9 Spanish Knowledge Organiser

Unit 2: Por fin vacaciones

2.1 ¡Allá voy!

el autocar coach el avión plane el barco boat la bicicleta bicycle el coche car la motocicleta motorbike el tren train I go/I'm going... voy... on foot ...a pie by coach ...en autocar ...en avión by plane ...en barco by boat by bike ...en bicicleta ...en coche by car ...en motocicleta by motorbike ...en tren by train

Alemania Germany Egipto Egypt Escocia Scotland Estados Unidos **United States** Francia France Gales Wales Grecia Greece England Inglaterra Irlanda Ireland Italia Italy Turquía Turkey estar de vacaciones to be on holiday ir de vacaciones to go on holiday to pay a visit ir de visita una escapada a la ciudad city break unas vacaciones en

2.2 Tengo mucho que hacer

aloiarme en un hotel to stay in a hotel comer en restaurantes to eat in typical típicos restaurants ir de compras a mercados to go shopping in markets iugar al vóley-playa to play beach vollevball nadar en el mar to swim in the sea pasear por la plava to stroll along the beach sacar fotos to take photos tomar el sol to sunbathe visitar los monumentos to visit historical históricos monuments



2.3 ¡Esto es la pera!

jes flipante! it's amazing! it's incredible! ies la pera! it's very cool! jes muy guay! ies un rollo! it's a pain! imola mucho! it's out of this world! ¡qué aburrimiento! what a bore! iqué chulo! how awesome! ¡qué fastidio! how annoying! hacer un picnic to have a picnic hacer senderismo to go hiking

montar en globo to go up in a hot-air balloon

recoger conchas en to collect shells in los charcos rock pools visitar el museo to visit the arqueológico archaeological museum

to plan my holiday

on the Internet

aproximado/a approximate



2.4 Te cuento qué pasó...

el año pasado last year el mes pasado last month en mis últimas on my last holiday vacaciones last summer el verano pasado al aire libre in the open air la barbacoa barbecue el camping campsite la isla island sacar selfis to take selfies salir con los amigos to go out with friends

ver un partido

to watch a match

bailar en una to dance in a discoteca night club to buy comprar recuerdos souvenirs hacer ciclismo to go cycling to swim in the nadar en la piscina loog probar la gastronomía to try the local

la playa

un viaje cultural

local

beach holiday

cultural trip

la tribu tribe el tucán toucan el valle vallev

cuisine

2.5 Mi aventura amazónica

la arena

el plato

la selva tropical

la estrella

el puerto

hacer una visita to take a guided guiada tour observar la to observe naturaleza nature planear to plan subir una montaña to climb a mountain la capibara capybara (large rodent) la deforestación deforestation el delfín dolphin la experiencia experience capuchin monkey el mono capuchino la rana venenosa poisonous frog el río Amazonas the Amazon river

tropical rainforest

2.6 ¡El verano que viene vamos a

flipar! el año que viene next vear el miércoles que viene next Wednesday la semana que viene next week el verano que viene next summer voy a... I am going to... aloiarme en un hotel stay in a hotel dar de comer a las feed the llamas llamas dormir mucho sleep a lot no hacer nada not do anything hacer un crucero go on a cruise pescar en el río fish in the river

planear mis vacaciones

en Internet

trabajar de voluntario/a ganar la lotería ver muchos animales salvaies mundo volar en un avión privado el comedor social incluido/a el mar Mediterráneo primera clase sin techo el/la voluntario/a

wifi

work as a volunteer to win the lottery to see many wild animals viaiar alrededor del to travel around the world to fly in a private plane soup kitchen included Mediterranean Sea first class homeless volunteer

55

wi-fi

Year 9 Spanish Knowledge Organiser Unit 2: Por fin vacaciones

2.1 ¡Alla voy!										
normalmente normally siempre always a veces sometim nunca never	va	I go he/she goes we go they go	a Italia a España	to Germany to Italy to Spain to Greece	en en	coche avión autobú tren ie	by car by plane s by bus by train on foot	con	mi familia mis padres mis amigos la familia de m	is amigos
2.2 Tengo mucho que hace	er									
suelo I usually suele he/she us solemos we usuall suelen they usua	ually nad / juga Ilv ir d	ar al voley-playa play k e compras go sh	athe in the sea beach volleyball opping photos	y visit vista	o I visit amos we vi		los merc sitios de los monu los muse	interés in umentos m	e markets heresting sites honuments huseums	
2.3 ¡Esto es la pera!										
voy a I am going to	montar en	nchas en los charcos	to go u	iking shells in rock p p in a hot air-b e a picnic on the	alloon		porque	-	-	I
2.4 Te cuento qué pasó										
el año pasado el mes pasado el verano pasado en mis últimas vacaciono	last year last month last summe on my last h		I went to we went to	Espaí Greci Franc los Es	a	os	У			
2.5 Mi Aventura amazónica	1									
fui a I went to primero hice una visi fuiste a you went to Peru luego observé las pla fue a he/she went to Lima vimos delfines fuimos a we went to Colombia hizo sol fueron a they went to hubo tormenta		servé las plantas ex elfines	las plantas exoticas later I saw exotic pla we saw dolphins it was sunny		c plants	fue it was				
2.6 ¡El verano que viene vamos a flipar!										
el año que viene el verano que viene la semana que viene el martes que viene	next year next summ next week next Tuesda	var ay var	a he/she mos a we are n a they ar	ng to is going to going to re going to d like to			dormir muc ganar la lote planear mis hacer un cre	ería s vacaciones	sleep a lot win the lottery plan my holidays go on a cruise	56

Year 9 Spanish Knowledge Organiser

Unit 3: ¡Aquí mando yo!

3.1 Generación digital

descargar música gastar batería hacer la compra por Internet

jugar a videojuegos

sacar fotos subir fotos ver vídeos la aplicación/la app

las compras la conexión wifi la cuenta

el navegador la radio digital

el supermercado virtual

la tableta

to download music to waste/use battery to do the shopping online

to play video games llamar por videollamada to make a video call to take photos to upload photos

> to watch videos application ('app') shopping Wi-Fi connection

account sat-nav

diaital radio

virtual/online supermarket

tablet

3.2 ¿Qué ponen en la televisión?

el concurso game show/quiz game los dibujos animados el documental la película el programa de deportes el programa de humor el programa musical la serie el telediario la telenovela a la carta el canal el capítulo el dispositivo la experiencia hacer un maratón de

cartoon/animation documentary film sports programme comedy programme

music programme series news soap opera on demand channel episode, chapte

device experience to binge-watch TV quide/schedule

personal data

varietv

3.3 ¿En el cine o en casa?

una película... a... film ...cómica comedy adventure ...de aventuras ...de ciencia ficción science fiction ...de dibuios

animated

horror

mystery

western

musical

romantic

complex

terrifying

captivating

disappointing

entertainina

animados ...de miedo ...de misterio ...del oeste ...musical ...romántica cautivador(a) complejo/a decepcionante entretenido/a



3.4 Somos melóman@s

los instrumentos la música tocar la batería la flauta la gaita la guitarra la pandereta el piano la trompeta el violín el/la artista

la pasión

instruments music to play (an instrument) drums flute bagpipes quitar tambourine piano trumpet violin artist, performer band/group la banda el/la cantante singer el concierto concert el/la melómano/a music lover

passion

el estado la obsesión el perfil de Internet onales la red social la tendencia el tuit cambiar mi estado comentar las fotos dar 'me gusta' hacer vídeos en directo leer las noticias estar de moda estar bien informado/a estar obsesionado/a poner efectos poner filtros subir selfis

la programación

los datos personales

la variedad

status obsession Internet profile social network trend tweet to update/change my status to comment on photos to 'like' (e.g. a photo) to make live videos to read the news to be in fashion/fashionable to be well informed to be obsessed to add effects to add filters

to upload selfies

3.6 Quiero ser...

espeluznante

el/la actor/actriz el/la arquitecto/a el/la bibliotecario/a el/la bloguero/a el/la carnicero/a el/la científico/a el/la cocinero/a el/la dentista el/la electricista el/la enfermero/a el/la escritor(a) el/la fontanero/a el/la fotógrafo/a el/la granjero/a el/la jugador(a) de

fútbol

actor/actress architect librarian blogger butcher scientist chef dentist electrician nurse writer plumber photographer farmer

football player

57

Sineda

Year 9 Spanish Knowledge Organiser

Unit 3: ¡Aquí mando yo!

3.1 Generación digital

normalmente normally siempre always a veces sometimes nunca never

uso Internet para

llamar por videollamada sacar fotos subir fotos ver vídeos

to make a video call to take photos to upload photos to watch videos

mi aplicación favorita se llama..... my favourite app is called.....



3.2 ¿Qué ponen en la television?

Mi programa favorito se Ilama.... My favourite TV programm

My favourite TV programme is called....

es it is un concurso un documental

un programa de deportes sports programme un programa de humor comedy programme

game show/quiz game documentary sports programme

Me gusta porque es I like it because it is

divertido educativo graciosos fun educational funny



3.3 ¿En el cine o en casa?

Mi película favorita se llama.... My favourite film is called....

porque Its is my favourite film because

Es mi película favorita

me da miedo it scares me me hace pensar it makes me think me hace reír it makes me laugh

Acabo de ver una película I have just watched afilm ...cómica comedy
...de aventuras adventure
...de ciencia ficción science fiction

3.4 Somos melómo@s

Toco I play
Tocaba I used to play
Tocaría I would play
Voy a tocar I am going to play

la guitarra guitar
la pandereta tambourine
el piano piano
la trompeta trumpet
el violín violin

Prefiero tocar la bateria a l'd rather play the drums than

ver la televisión jugar fútbol en el parque ver vídeos en YouTube

watch the TV play football in the park watch videos on YouTube

3.5 Mis intereses personales

En mi opinion In my opinion Creo que I think that Pienso que I think that

las redes sociales son social media is



buenas good malas bad útiles useful inútiles useless

para

hacer vídeos en directo leer las noticias estar de moda estar bien informado/a

to make live videos to read the news to be in fashion/fashionable to be well informed

3.6 Quiero ser.....

En el future Cuando sea mayor Cuando tenga 20 años In the future When I am older When I am 20 quiero ser me gustaría ser trabajaré como I want to be I would like to be I will work as

porque because es interesante es útil es mi sueño está bien pagado es fácil it is interesting It is useful it is my dream it's well paid it's easy