



Year 8 Knowledge **Organisers** Autumn Term (Half term 1 and 2) 2023-2024





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.

CONTENTS

(Subjects are arranged alphabetically)

How to use your

3	Knowledge organiser
4	Tier 2 Vocabulary
5	Art
8	Design Tech
17	English
21	Food Tech
27	French
31	Geography
33	German
37	History
41	Computing
45	Maths
49	Music
50	Religious Studies
54	Science

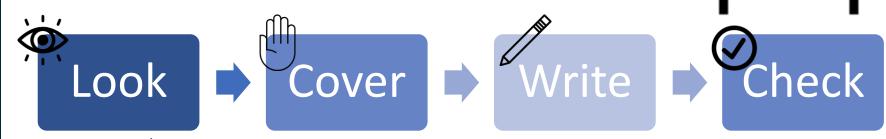
58

Spanish



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



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

	List 1	List 2		List 3	
acquire (verb)	get	final (adj)	last	primary (adj)	First/main
appropriate (adj)	suitable/correct	Institute (n)	Company/society	regulations (n)	rules
authority (n)	the person in charge/expert/power	injury (n)	Pain/discomfort	resident (n)	Person who lives there
acquire (v)	get	indicate (v)	show	restricted (adj)	Limited/controlled
consistent (adj)	same every time	journal (n)	diary/bulletin/paper	significant (adj)	important
construct (v)	make	legislation (n)	laws	sought (v)	Looked for/wanted
consumer (n)	customer	labour (n)	work	subsequent (adj)	coming after
credit (n/v)	(to give) money	maintenance (n)	Repairs/upkeep	traditional (adj)	Old fashioned/typical
conduct (v)	do/carry out	obtain (v)	get	veritable (adj)	real/true
distribution (n)	the spread of something	perceive (v)	Think/believe	withstand (v)	bear/survive
economic (adj)	to do with wealth and money	previous (adj)	Earlier/before	yield (v)	Stop/give in
Evaluation (n)	review	purchase (v)	buy	zeitgeist (n)	what's currently popular



YEAR 8 KNOWLEDGE ORGANISER -**BASIC SKILLS**

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
Still life	A painting or drawing of an arrangement of
	objects.
Cubism	A movement in art, especially painting, in
	which perspective with a single viewpoint was
	abandoned and use was made of simple
	geometric shapes, interlocking planes, and,
	later, collage.

doodling. as a meditative, relaxing activity similar to seemingly complex patterns. This is carried out repeated simple shapes and lines which form **Zentangle**- a type of pattern made from

line of symmetry. parts facing each other or around an axis or Symmetry-being made up of exactly similar

What makes a successful artist research

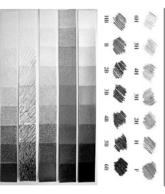
- You must include:
- Artists name (title)
- Imagery of the artists work
- analysing the artists work) (facts about the artist as well as Annotation and your own opinion
- the artists work. Your own drawings or 'mini studies' of
- Consider presentation of your page. Try style (through use of colour or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







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



Grades of Pencils

Pencils come in different grades. The softer the pencil the darker the tone.

pencils are B, 2B and 4B H = hard, B = black (soft)In Art the most useful If your pencil has no

(hard black in the middle it is likely to be an HB of the scale)

grade

- WHO made it
- WHEN it was made
- WHY it is inspiring to you
- HOW it will effect your own work

- WHAT you have done
- HOW have you done it
- WHAT inspired you
- WHAT else did you try
- WHY is it successful
- IS there anything you would change When talking about your own work, try

ALWAYS TRY TO BE POSITIVE!





YEAR ∞ KNOWLEDGE ORGANISER **BASIC** SKILLS

The colour wheel	This is a diagram that shows how colours are mixed or the
Primary colours	Red, blue and yellow. These are colours that cant be made by mixing other colours together.
Secondary colours	Green, orange and purple. Mix two primary colours to create a secondary colour
Tertiary colours	These are colours create by mixing a primary and a secondary colour together.
Complimentary colours	These are colours that are opposite on the colour wheel.
Harmonious colours	These are colours from the same section of the colour wheel. These work well when blending.
Cool colours	Fall on one half of the colour wheel. Calm or soothing in nature. They are not overpowering and tend to recede in space. For this reason, they typically make a space seem larger.
Warm colours	Fall on the opposite side to the cool colours on the colour wheel. They are vivid or bold in nature. They tend to advance in space and can be overwhelming.
:	

Blending

- darker colour in small amounts Always start with the lightest colour and add the
- Harmonious colours blend well together.
- when blending dry materials. Cross hatching is a good mark making method
- Wet materials should be mixed on a palette before blending.



Mixing paint

- amounts. darker colour in small colour and add the Always start with the lightest
- Use a palette to mix your colour.

paint. on mixing help guide to view a Scan here







method - QR code below **Enlarging using the grid**

drawing a grid of equal drawing a grid over your **ratio** on your work surface. reference photo, and then The grid method involves



Scale
The overall physical size of an artwork or objects in the

Proportion

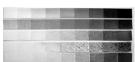
depth. between height, width and composition and relationships The dimensions of a



LYMM

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











Scan this QR

code to find out

interesting facts

about bugs and

insects

Insect	Insects have a chitinous exoskeleton, a three- part body (head, thorax and abdomen), three pairs of jointed legs, compound eyes and one pair of antennae. Insects are the most diverse group of animals.
Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.
Line drawing	A drawing done using only narrow lines, without blocks of shading.
Continuous line drawing	A drawing completed without taking your pen/pencil off the page.
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.
Mono printing	A form of printmaking that has lines or images that can only be made once, unlike most printmaking, which allows for multiple originals.
Mixed Media	A term used to describe artworks composed from a combination of different media or materials.
Needle eye	The narrow opening at the top of the needle
Pattern cutting	The process of turning a design into a piece of fabric. However, before a design is made into a three-dimensional (3D) fabric, it is usually made on two-dimensional (2D) paper. In simple words, just imagine what you are wearing right

Yumi Okita

Yumi Okita is a North Carolina based artist who creates beautiful textile sculptures with various textiles and embroidery techniques. The pieces are quite large and measure to almost a foot wide and contain other techniques like painting the feathers and using false fur.







What makes a successful artist research page?

You must include:

- · 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 your page. Try to make your page reflect the artists style (through use of colour or even media you choose to use).

Mr Finch

About | Mister Finch (mister-finch.com)

- Professional artist
- Born in Warrington, lives in Stafford.
- Flowers, insects and birds really fascinate him.
- Most of his work uses recycled materials.



Embroidery	the craft of decorating fabric or other materials using a needle to apply thread or yarn. <i>Embroidery</i> may also incorporate other materials such as pearls, beads, quills, and sequins.
Embellishment	is a decorative detail or feature added to something to make it more attractive.
2D	Two dimensional: Having or appearing to have length and breadth but no depth.
3D	Three dimensional: Having or appearing to have length, breadth, and depth.





now and think of it as a design that was first

made on paper and, later, turned into a fabric.







Places of interest to visit

- Chester Zoo Butterfly house
- World Museum Liverpool
- Manchester Museum



Scan below to view how to do basic embroidery

stitches.

Year 8 Material Focus: Polymers

Types of Polymers.....

The properties and uses of some common thermosoftening plastics are shown in the table below.

Scan the QR code to learn about different types of polymers.....



THERMOPLASTICS



(Can be melted repeatedly)

THERMOSETS



(Once shaped, cannot be melted)

Scan the QR code to learn how plastic bottles are made.....



Scan the QR code to learn about Bio Plastics.....



2.3 Sustainability of plastics

End of life considerations are important for all products, but as most plastics take so long to biodegrade extra care should be taken to decide how it should be managed.



Many responsible companies producing plastic products conduct a Life Cycle Assessment (LCA) which informs them of the environmental impact of manufacturing their products. The information gathered helps them decide how to deal with their product when it has reached the end of its working life.

Almost all plastics are recyclable or biodegradable in some form – however, the difference in the quality of the recycled products varies dramatically.

Thermosetting plastics are generally considered non-recycled although they are frequently ground down and used as a filler material or they are used for **energy recovery** through incineration.

Thermoplastics are much more easily recycled for use as a recycled plastic product. If the plastics are carefully separated into the different types, the resulting material remains high quality and commands a higher price than mixed plastics. It is important to recycle as much as possible, and poorly discarded plastics are becoming a major environmental concern, especially in our countryside, rivers and ocean.

Principal uses Name Properties Bearings, gear wheels, casings for Creamy colour, tough, fairly hard, Polyamide power tools, hinges for small resists wear, self-lubricating, good (Nylon) cupboards, curtain rail fittings and resistance to chemicals and machines clothing Stiff, hard but scratches easily, Polymethyl Signs, covers of storage boxes, aircraft durable, brittle in small sections, good canopies and windows, covers for car methacrylate electrical insulator, machines and (Acrylic) lights, wash basins and baths polishes well Medical equipment, laboratory Light, hard but scratches easily, tough, equipment, containers with built-in Polypropylene good resistance to chemicals, resists hinges, 'plastic' seats, string, rope, work fotique kitchen equipment Light, hard, stiff, transparent, brittle, Toys, especially model kits, packaging, Polystyrene with good water resistance 'plastic' boxes and containers Low density Tough, good resistance to chemicals, Packaging, especially bottles, toys, polythene flexible, fairly soft, good electrical packaging film and bags (LDPE) insulator High density Plastic bottles, tubing, household polythene Hard, stiff, able to be sterilised equipment (HDPE)

The properties and uses of some common thermosetting plastics are shown in the table below.

Name	Properties	Principal uses
Epoxy resin	Good electrical insulator, hard, brittle unless reinforced, resists chemicals well	Casting and encapsulation, adhesives, bonding of other materials
Melamine formaldehyde	Stiff, hard, strong, resists some chemicals and stains	Laminates for work surfaces, electrical insulation, tableware
Polyester resin	Laminated, good electrical insulator, resists chemicals well	Casting and encapsulation, bonding of other materials
Urea formaldehyde	Stiff, hard, strong, brittle, good electrical insulator	Electrical fittings, handles and control knobs, adhesives

Plastic Resin Identification Codes

PETE	L23 HDPE	233 PVC	LDPE	25 PP	263 PS	OTHER
Polyethylene Terephthalate	High-Density Polyethylene	Polyvinyl Chloride	Low-Density Polyethylene	Polypropylene	Polystyrene	Other
Common products: soda & water bottles; cups, jars, trays, clamshells	Common products: milk jugs, detergent & shampoo bottles, flower pots, grocery bags	Common products: cleaning supply jugs, pool liners, twine, sheeting, automotive product bottles, sheeting	Common products: bread bags, paper towels & tissue overwrap, squeeze bottles, trash bags, six-pack rings	Common products: yogurt tubs, cups, juice bottles, straws, hangers, sand & shipping bags	Common products: to-go containers & flatware, hot cups, razors, CD cases, shipping cushion, cartons, trays	Common types & products: polycarbonate, nylon, ABS, acrylic, PLA; bottles, safety glasses, CDs, headlight lenses
Recycled products: clothing, carpet, clamshells, soda & water bottles	Recycled products: detergent bottles, flower pots, crates, pipe, decking	Recycled products: pipe, wall siding, binders, carpet backing, flooring	Recycled products: trash bags, plastic lumber, furniture, shipping envelopes, compost bins	Recycled products: paint cans, speed bumps, auto parts, food containers, hangers, plant pots, razor handles	Recycled products: picture frames, crown molding, rulers, flower pots, hangers, toys, tape dispensers	Recycled products: electronic housings, auto parts,
				70		

Year 8 Material Focus: Metals Types of Metals..

Scan the QR code to learn where metal comes from.....



FERROUS METALS:

Metals that contain iron and are magnetic. They are prone to rust.

NAME	PROPERTIES	USES
Mild Steel	Tough. High tensile strength. Can be case hardened. Rusts very easily.	Most common metal used in school workshops. Used in general metal products and engineering.
Carbon Steel	Carbon Steel Tough. Can be hardened and tempered.	Cutting tools such as drills.
Stainless steel	Stainless steel Tough, resistant to rust and stains.	Cutlery, medical instruments.
Cast iron	Strong but brittle. Compressive strength very high.	Castings, manhole covers, engines.
Wrought iron	Wrought iron Fibrous, tough, ductile, resistant to rusting.	Ornamental gates and railings. Not in much use today.

NON-FERROUS METALS:

Metals that do not contain iron and are not magnetic. They do not rust.

NAME	NAME COLOUR	PROPERTIES	USES
Aluminium Light grey	Light grey	Ductile, soft, malleable, machines well. Very light.	Ductile, soft, malleable, machines Window frames, aircraft, kitchen ware. well. Very light.
Copper	Reddish brown	Ductile, can be beaten into shape. Conducts electricity and heat.	Reddish brown Ductile, can be beaten into shape. Electrical wiring, tubing, kettles, bowls, Conducts electricity and heat.
Brass	Yellow	Hard. Casts and machines well. Surface tarnishes. Conducts electricity.	Parts for electrical fittings, ornaments.
Silver	Whitish grey	Ductile, Malleable, solders, resists Jewellery, solder, ornaments. corrosion.	Jewellery, solder, ornaments.
Lead	Bluish grey	Soft, heavy, ductile, loses its shape Solders, pipes, batteries, roofing.	Solders, pipes, batteries, roofing.

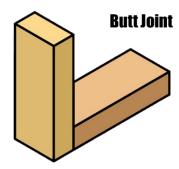
ALLOYS:

Alloys are mixtures of metal with an element to improve its properties or aesthetic. For example brass is a mixture of copper and zinc. Alloys can also be classified as ferrous or non-ferrous.

NAME COLOUR An alloy of copper and zinc, can be cast and machined, used for musical instruments Brass Gold An alloy of copper and zinc, can be cast and machined, used for musical instruments Pewter Made up of tin (approximately 90 per cent), antimony (7 per cent) and other metals such as copper or bismuth, it has a low melting point (approximately 200°C), often used to make jewellery, candlesticks, outside light fixtures or tankards Solder An alloy of 60 per cent tin and 40 per cent lead, it has a low melting point Solder Grey	manufacture	
Brass Gold Pewter grey Solder Grey		
Lour K V		

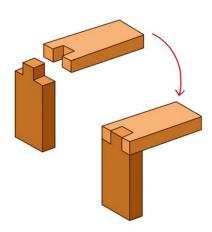
10

Wood Joints Frame/Box Joints.....



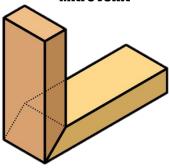
A **butt joint** is a technique in which two pieces of material are joined by simply placing their ends together without any special shaping. A butt joint can be strengthened with dowels, nails and screws.

Comb/Finger Joint



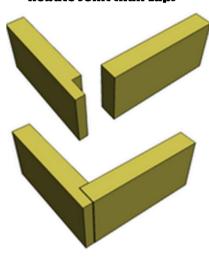
A finger joint, also known as a comb joint, is a woodworking joint made by cutting a set of complementary, interlocking profiles in two pieces of wood, which are then glued. The cross-section of the joint resembles the interlocking of fingers between two hands, hence the name "finger joint"

Mitre Joint



A mitre joint is a joint made by cutting each of two parts to be joined, across the main surface, usually at a 45° angle, to form a corner, usually to form a 90° angle, though it can comprise any angle greater than 0 degrees.

Rebate Joint (Half Lap)



The rebate joint is a very similar to the butt joint but the big difference between the two is that one of the ends of the timber has a groove cut out of it to create much better holding strength.

Manufacturing Processes

CAD/CAM (Computer Aided Design/Computer Aided Manufacture)







Scan the QR code to learn how laser cutters work.....

A drawing is sent from a CAD program such as 2D Design, to the laser cutter.

A laser cutter can cut through acrylic, laser plywood and some metals.

Tools and Equipment.....



Paper



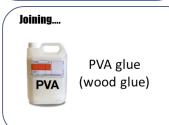


Cloth

Oil

(Wood)

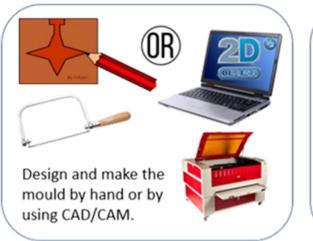




Manufacturing Processes

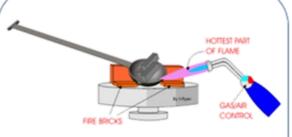
Stages of Pewter Casting.....



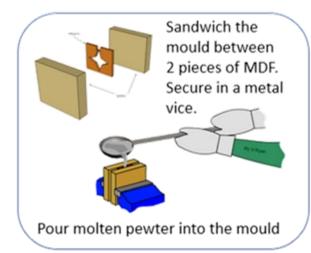


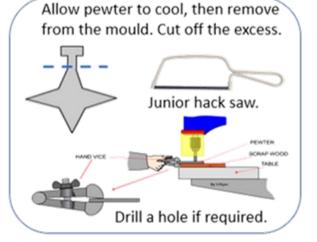


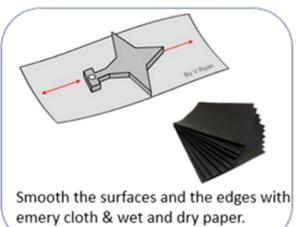
Scan the OR code to learn how to cast metal

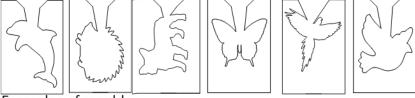


Place pewter ingots in the ladle and heat the pewter with a gas torch or heat gun. Melt the pewter.







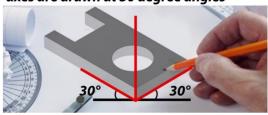




Design Movement	Images	Influences	Designers	Features	
Arts and Crafts (1850-1900)		Traditional craft and hand skills rather than machinery	William Morris Charles Voysey Richard Norman Shaw	Traditional wood joints in furniture Use of natural forms Highly decorative – with birds and florals shown on textiles and wallpapers	
Art Nouveau (1880-1910)		Linear patterns of Japanese prints French Post-impressionist art Arts and Crafts Movement	Alphonse Mucha Louis Comfort Tiffany Charles Rennie Macintosh	Floral and decorative patterns Elegant and graceful lines Use of traditional materials	
Art Deco (1925-1939)		End of WW1, growth of mass production Range of international styles coming into the public eye	Claric Cliff Eileen Gray Rene Lalique Walkter Dorwin Teague	Stylised geometric shapes Bold colours often paired with black, chromes and metallic Sunburst motiffs	
Bauhaus (1919-1933)		Post-WW1 idealism Arts and crafts movement WW1 industry methods and materials Art Deco's geometric forms	 Walter Gropius Marcel Breuer Marianne Brandt Mies Van Der Rohe 	Form follows function principle Use of steels, chromes and leather Modernism style-design	
Streamlining (1930-1950)		Post-WW2 lack of materials Vehicle innovations breaking speed records Rise of Bakelite	Raymond Loewy Norman Bel Geddes Henry Dreyfuss Walter Dorwin Teague	Long horizontal lines and curving forms Aesthetic influences from industrial and nautical design Sleek appearance Use of metals and plastics	
Scandinavian Modern (1935-Present)		Dark Scandinavian winters leading to designers maximising light and cozy features Practical and functional designs	Finn Juhl Hans Wegner Arne Jacobsen	Clean lines Neutral colour palette Sleek and functional	
Minimalism (1967-1978)	F	Japanese traditional design and architecture De Stijl art and design	 Donald Judd Agnes Martin Dan Flavin Anne Truitt 	Repetition of simple geometric forms Monochromatic/limited colour Hard-edged Little/minimal use of materials	
Memphis (1981-1988)		Rebelling against functional modernism Art Deco Pop Art	Ettore Sottsass Michele De Lucchi Martine Bedine	Less is Bore principles Post-modernism design Bright, colourful and sculptural design Simple and Abstract forms Use of non-traditional materials	

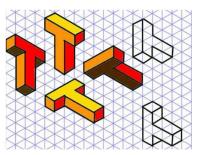
Isometric Drawing......

axes are drawn so that the two horizontal axes are drawn at 30 degree angles



Scan the QR code to learn how to draw simple shapes in isometric.....





Measurements for Manufacturing the Rebate Joint (Half Lap Joint)



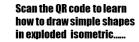
2mm gap should be left for the saw cut

All dimensions in mm

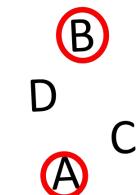
Exploded Isometric.....

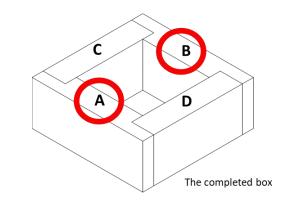
Exploded views

Exploded drawings are extremely useful when explaining a design / idea. The drawing opposite is a design for an educational toy (for a young child) has been drawn with all the parts disassembled. It is important when drawing an exploded view that all the parts line up with each other when disassembled. The vertical guidelines clearly show how the various parts are in line with each other. If an exploded drawing is constructed properly anyone looking at the drawing should be able to see how the various parts go together to form the finished design/object.





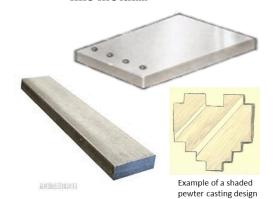




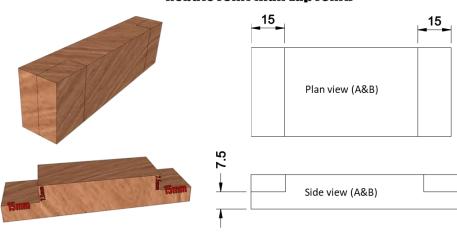
Shading an object to look like wood....



Shading an object to look like metal....

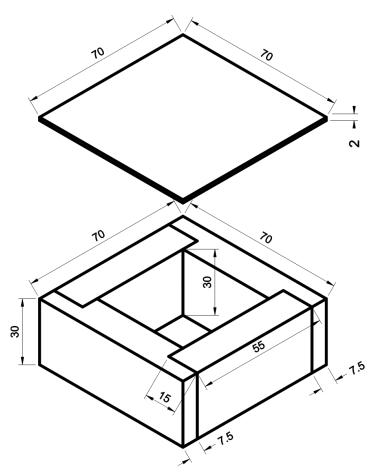


Rebate Joint (Half Lap Joint)



Exploded Isometric Drawing of Box

Draw the box in an isometric projection. Use the dimensions given on the drawing. Use isometric paper, a ruler and a pencil to complete the drawing accurately.



All dimensions in mm

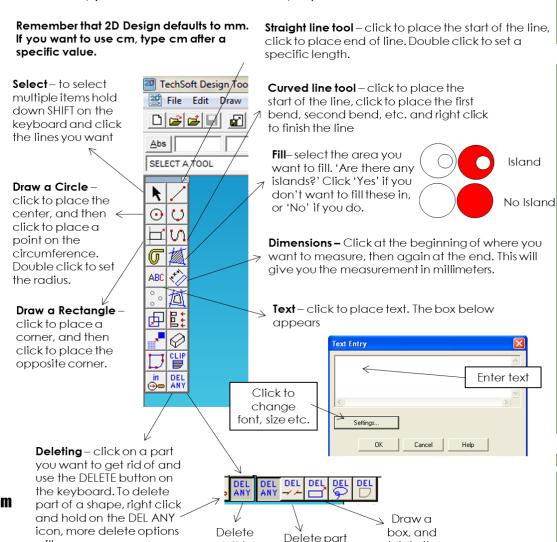
will appear.

Manufacturing Processes CAD/CAM CAD 2D Design....



(Computer Aided Design/Computer Aided Manufacture) (DESIGN)

The drawing tools are all located on the right hand side of your screen. At the top of your screen here, you will also find the default 'File,' 'Open' and 'Save' buttons.



anything

of a line

delete the

contents

CAD 2D Design....

Your arid tools are all located on the left hand side of your screen.

Lock to grid - Keep this on to keep your lines straight and < measurements accurate

Attach - Use this tool to attach one point directly to another

Zoom in/Out

Undo - Undo or Delete your last move.

Remember: You can only undo one last step!

Using the ARC TOOL

Click on the Arc button. When drawing an arc tool it needs three points, a start, middle and an end. Click once onto the drawing screen move the pointer up there will be a straight line. Click again move the pointer to the end of the arc click once and the arc will be created.

Create the drawing as shown.

Remember to use the delete part, arc, circle and group functions.

Using the GROUP TOOL

To group the lines together, select Edit from the main tool bar and click on Group. This combines all four lines into one object.



Grid – The grid dots can be present or you can turn them off. Double click and you can change the spacing of the dots. The default is 10mm. You can also change the grid from orthogonal to isometric.

DESIGN

GRID STEP

LOCK LOCK

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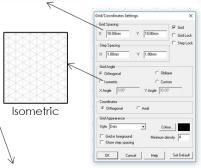
GRID STEP LOCK LOCK

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Radial Lock - Allows you to draw straight lines when not attached to the arid.

Using the ATTACH TOOL

The Attach tool allows you to connect a drawing to a point on the screen.

- 1. Draw a rectangle
- 2. Press the attach button
- 3. Press the line button
- 4. Move near the rectangle and click, the tool will attach your line to the rectangle.





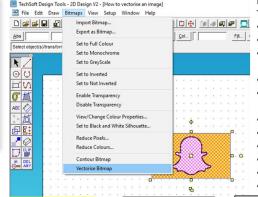
Group - Grouping an object makes it easier to move around and to resize. Use the quick group tool to group and ungroup a collection of objects.

Manufacturing Processes CAD/CAM

(Computer Aided Design/Computer Aided Manufacture)



How to vectorise an image.....



Find an image that you would like to use To vectorise, follow the instructions:

- Go to Bitmaps
- Vectorise Bitmap
- A hand will appear, use this to select the image
- Set to Monochrome
- · Slide the luminance bar to get the best quality image
- · Then select OK
- Then select OK again
- · Select the object
- Select Fill at the top (next to col)
- Select 'No Fill'
- Select OK











1. Bitmap Image

End Cell Width Adios

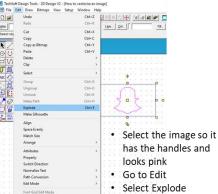
2. Vectorised Image

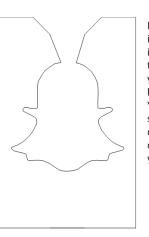
· Then continue

3. Outline Image with no 'fill'

4. Parts of image deleted to create a silhouette

How to delete parts of an image.....





Re-size your image to fit into the template that your teacher has given you. You have successfully drawn the design for vour mould.

DYSTOPIAN FICTION



Key Vocabulary

Dystopia: an imagined state or society in which there is great suffering or injustice, typically one that is totalitarian or postapocalyptic.

Revolution: a forcible overthrow of a government or social order, in favour of a new system.

Totalitarian: relating to a system of government that is centralized and dictatorial and requires complete subservience to the state.

Inequality: a lack of fairness or justice.

Nihilistic: rejecting all religious and moral principles in the belief that life is meaningless.

Key Context

The Industrial Revolution



Scientific and technological inventions created societal fear and religious uncertainty which led writers to explore how this could lead to a Dystopian future.

Revolutions



1789 French Revolution 1917 Russian Revolution

War

War is destructive both to humanity and the natural environment.

Nature



The subtle or puzzling hook

The power of nature to destroy (natural disasters) and the aftermath of those events is a key feature of dystopian literature.

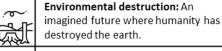
The visual or atmospheric hook

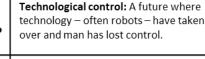
sight, sound, smell, touch/feel, taste.

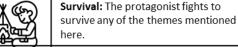
Central Themes of Dystopian Literature

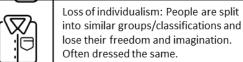
Didactic: intended to teach, particularly in having moral instruction as an ulterior motive

Government control: The government abuses their power and the people live in fear - often watched, listened to, and recorded.









War: The after-effects of war on civilisations and humanity. The destruction of order and a life of chaos.

Narrative Vocabulary / Short Story Structure

P	
人	J

Narrative hooks

These appeal to the reader's curiosity and immediately encourage questions of the story.

The 'In medias res' opening The story starts in the middle of the action. •

The Emic opening

An exposition that explains everything the reader needs to know.

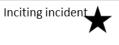
rising action

freytag's pyramid

falling action

resolution

This is descriptive, appeals to the reader's senses



An event that introduces conflict and sets everything else that happens into motion. E.g. in Harry Potter, the inciting incident takes place when Harry receives his letter from Hogwarts.



This is the main part of a story where most of the conflict and action occurs. There should be a significant even for the protagonist that moves the plot forward.

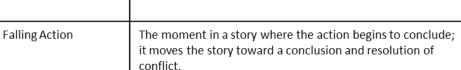


The most intense, exciting, or important point of a story.





The moment in a story where the action begins to conclude;



inciting incident The conclusion of a story's plot and conflict. Also known as the denouement, the resolution is a literary Resolution term for the final plot points that occur after a story's climax and falling action. Sometimes a story may be left open for interpretation – this is called a cliffhanger.





Romeo and Juliet Knowledge Organiser

PLOT

The Chorus gives an overview of the key events and themes in the play. We learn of a long-standing hatred between two families in the Italian city of Verona, and this feud affects the whole community.

Capulet's servants, Sampson and Gregory, pick a fight with Montague's servants. Benvolio tries to stop the fight and encourages Tybalt to do the same, but he refuses and the violence escalates. The Prince arrives and threatens death for the next person to fight in public. Meanwhile, Romeo is broken-hearted over Rosaline so Benvolio encourages him to go to the Capulets' masked ball. Romeo falls in love with Juliet at first sight and they kiss. Only then do they learn of each other's' identities.

Romeo scales the wall of the Capulet orchard and watches Juliet on her balcony. She wishes he was not a Montague. He signals his presence, they talk and declare their love for one another, and make plans to marry. Friar Laurence warns Romeo not to rush but agrees to help because he thinks the marriage will end the feuding.

Benvolio and Mercutio cross Tybalt, who is looking to duel Romeo because of his attendance at the Capulet ball. Newly-married Romeo refuses to get involved and Mercutio is drawn into the fight instead and is killed. Romeo, blinded by fury, then kills Tybalt. He hides in the Friar's cell as Escales decides to banish him. He is distraught but he and Juliet spend the night together. Meanwhile, Capulet brings the wedding between Juliet and Paris forward and when told, Juliet refuses to obey and Capulet threatens to disown her.

Juliet seeks the Friar's help. He gives her a sleeping potion which will give the impression she is dead, and says he will write to Romeo and let him know. Juliet returns home and makes peace with her parents before taking the potion. When the Nurse cannot wake her the next morning, they fear she is dead and take her to the family tomb.

The Friar's letter does not reach Romeo so when Balthazar, his servant, reports of Juliet's death, Romeo buys poison. Arriving at the tomb, he fights and kills Paris. He says goodbye to Juliet, drinks the poison and dies. Juliet wakes, realises what Romeo has done and stabs herself with his dagger. Following the Friar's explanation of events to Escales, the Capulets and Montagues decide to reconcile.

Cast and Characters

Romeo Montague: Heir to the Montague family. Intense, intelligent, quick witted, and loved by his friends.

Juliet Capulet: Naïve and sheltered at the beginning but develops into a woman with strength. Grounded.

Friar Laurence: A Franciscan monk and a friend to both Romeo and Juliet. **Nurse:** Juliet's best friend and confidante, and in many ways is more her mother than Lady Capulet is.

Benvolio: Romeo's cousin who is less quick witted than Romeo and Mercutio, and tries to keep the peace.

Mercutio: Romeo's close friend. Wild, playful and sarcastic. Good-humoured.

Tybalt Heir to the Capulet family and Juliet's cousin. Quick to anger and consumed by issues of family honour. Hates the Montagues.

Capulet: Juliet's father: loving but controlling.

Prince Escales: Leader of Verona, concerned with keeping order between the warring families.

Paris: Prince Escales' kinsman and Juliet's suitor.

The universal gold **Punishment** as An exploration of the consequences of sin (crime and consequence for sin 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. The cyclical nature Osepnskey's theory of time: When we die, we re-enter our life of human life. again from the beginning, unless we learn from our mistakes. As humans we need the the opportunity to learn from the mistakes of the past. The two feuding families fail to learn from their mistakes until they suffer catastrophic loss Exploration of Exploration of gender roles -women as the second sex. De gender roles Beauvoir's feminist theories showing women as subservient, restricted and objectified. Men as victims and perpetrators of toxic masculinity.

Historical and Social Context

Queen Elizabeth I — She was queen while Shakespeare was writing, and supported him. Elizabeth I made Protestantism the official religion of England, which angered many Catholics, and led to much conflict. Shakespeare may be referencing this in 'Romeo and Juliet', with the two warring families.



The role of women in a patriarchal society: Elizabethan 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.

Courtly Love: a medieval tradition of love between a knight and an unattainable noblewoman common in European literature of the time. The love of the knight for his lady was regarded as an overwhelming passion and the relationship was typically one sided.

Duelling and the concept of honour: Honour was hugely important at the time, and maintaining the honour of your family name was crucial. If you were challenged to a duel and you refused, you would be deemed a coward, thus damaging your honour and the status of your family.

Arranged marriages: Marriages amongst the wealthy were arranged by parents, and were not about love. Mostly the marriages were arranged for the purposes of status and power, and improving the social standings of families.

The Catholic setting of the play: The play is set in Italy, which is a Catholic country. Religion was extremely important: marriage vows were sacred – once made, they could not be broken, and suicide was considered a sin.

The Humours – Elizabethans believed the body contained four 'humours': blood, phlegm, yellow bile and black bile. The amount you had of each determined your personality. People with too much phlegm are emotional. People with too much blood are irresponsible and gluttonous. People with too much yellow bile are violent and vengeful. People with too much black bile are depressed and self-centred.

Bubonic Plague/Black Death – a plague that killed many people. Sufferers were quarantined in their houses, with a red 'X' painted on the door, and left to die.

Key Themes						
In the play, love is an overpowering force that supersedes all other values, emotions, and loyalties. Through their love, Romeo and Juliet conspire to go against the forces of their entire social world. Romeo returns to visit Juliet at points, even though he is well aware of the threat of death. At times, love is presented as fickle (Mercutio's speeches, Romeo + Rosaline).						
Conflict	A serious disagreement or argument. We see the conflict between the Montagues and Capulets which makes 'civil hands unclean'. This demonstrates how violence leads to the degradation of man and morality.					
Family	The play centres around two key families within Verona. It calls into question the expectations put upon family duty: marriage, loyalty and love. Our 'star crossed lovers' battle with their duty to their family which comes into conflict with their love for one another.					
Power	Throughout the play we see shifting power dynamics and influence. Parents over their children. Men over women. Religion through society. Society over the people. The titular characters spend the majority of the play subverting society's power dynamics in the pursuit of their love.					
Death and revenge	Death lurks throughout the play, acting as a motivator for revenge and instilling a sense of duty in those who feel they have been wronged. The use of suicide (which translates as self-murder) would have been seen as truly tragic as this would bar the victims from heaven according to Christianity.					
Fate and Destiny Juliet are 'star-cross'd' lovers, meaning that fate had intended for their paths to cross, and that fate controls their actions. A series of unfortunate accidents towards the end of the play thwart Friar Laurence's plan and eventually manifest in both Romeo and Juliet committing suicide, thus adding to the sense of fate.						
Drar Dramatic Irony – something that a	The Tragic Genre Tragic hero - The main character who has a fundamental flaw in their character which					

Dramatic Irony – The audience knowing something that a characters doesn't. **Soliloquy** – One person speaking their thoughts aloud on stage but directed at themselves.

Foreshadowing – Giving a hint or allusion to a future significant event.

fundamental flaw in their character which will lead to their death.

Hamartia – The fatal flaw in a character. **Catharsis** – The release of intense emotions

Peripeteia – A sudden reversal of fortune.



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, <u>viruses</u>, 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.

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
- Babies
- Young children
- Pregnant women

Pathogenic Bacteria	Source	Symptoms	Average Onset Time
Salmonella	Raw meat Poultry and eggs Pests and pets Human and animal intestines Dirt and refuse	Vomiting Nausea Diarrhoea Abdominal pain	12 - 36 hours after eating
Staphylococ cus aureus	Human nose, throat, ears, skin Septic wounds Animals and raw milk	Vomiting Abdominal pain Low temperature	1 – 7 hours after eating
Clostridium perfingens	Raw meat and poultry Soil, dirt and refuse Raw vegetables Pests and pets Human and animal intestines	Diarrhoea Abdominal pain	12 - 18 hours after eating
Clostridium botulinum	Soil Marine sediment Raw fish and meat Animal intestines	Paralysis Breathing and swallowing difficulty Diarrhoea followed by constipation	12 – 36 hours after eating
Bacillus cereus	Dust and soil Cereal, rice and pasta	Nausea Vomiting Abdominal pain Diarrhoea	1 - 5 hours or 8 –16 hours depending on the form of the food poisoning

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.

Core temperatures:

The 4C's for Good Food Safety

- Cooking
- Cleaning
- Chilling
 - Cross contamination



Food Hygiene and Safety:

Before Cooking:

- Put your apron on
- Roll your sleeves up
- 3. 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

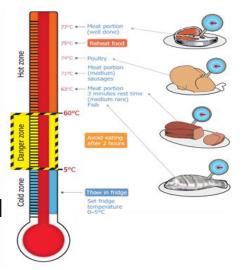
When Using The Cooker:

- Turn pan handles in away from edge of cooker
- 2. Always turn hob off when not in use
- Never leave food cooking on the hob unattended
- 4. 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
- \checkmark Clean and dry sinks with no suds or residue food



3. Commodities Fish

Classifi cation	Туре	Examples
White	White fish have less than 5 per cent fat (oil) in their flesh, which is why their flesh appears white. Instead, they have oil in their liver. Examples of white fish are: cod, haddock, halibut, whiting, coley, plaice and Dover sole. White fish are round (e.g. cod, haddock and whiting) or flat (e.g. plaice and sole).	
Oily	have between 10 and 20 per cent fat (oil) in their flesh, which makes their flesh quite dark. Examples of oily fish are mackerel, herring, pilchard, sprat, sardines and salmon.	
Shell	Shell fish are found in the sea. Shellfish are divided into: Crustaceans – these have a shell and legs. Examples include prawns, scampi, lobster, and crab. Molluscs – these have a shell but no legs and they often fix themselves to rocks. Examples include cockles, mussels, winkles and oysters. Squid and Octopus - are also classed as molluscs—even though their shell is inside! Fish produced in fresh water include trout and carp	

Ways of preserving fish. Salting - If enough salt is used, then the fish may keep for up to a year.

Smoking - Fish can be smoked using different techniques. Hot smoked fish are moist, lightly salted and fully cooked. They can be eaten without further cooking. Cold smoked fish are generally saltier in flavour and have less moisture. Cold smoking does not cook the fish. It merely adds a smoked flavour. Smoked fish and salted fish such as kippers and bloaters should have a firm flesh, shiny skin and a good 'smoky' smell. Pickling - Pickling fish was originally conceived as a way to preserve it. It is a common technique in Scandinavia.

Pickling is now used widely to

add flavour and sharpness. Canning - Produces a moist, flaky product and makes the bones edible. Oily fish and shellfish such as tuna, salmon, and prawns can be canned in brine, tomato sauce or oil which adds flavour to the fish.

Drying - Fish are laid out to be dried.

Freezing - Packaged in blocks or freeze in water brushing glaze on top.

MEAT. Meat is an important food commodity which provides nutrients essential for health. It is the muscle tissues of dead animals and birds are classified as meat and poultry, whereas the edible internal organs are called Offal. Game refers to wild animals

2. Commodities - Meat, Poultry,

Internaro	igans are caned Orial. Game refers to wild animals			
<u>Beef</u>	British reared breeds such as Aberdeen Angus, Longhorn and Hereford have traditionally been considered to provide the best beef in the world.			
Organic Beef Organic beef and beef from rare breeds, is the most expensive to buy as the highest farming standards will have been needed at all stages of the animal's life.				
Wagu Beef	Wagu meat comes from a group of Japanese breeds whose meat is renowned for its high level of fat marbling.			
Veal was comes from the male calves of cows bred for dairy, slaughtered when they are a few months old.				
Meat from sheep	Lamb is sheep under one-year-old. Hogget is a lamb older than one year. Mutton is the meat of older sheep.			
<u>Pork</u>	This is all the meat that comes from pigs. To add extra choice pork can be cured and smoked.			
_ပ ္ Ham	This is a specific cut of the thigh part of the pig which has been cured and or salted.			
Bacon This is produced by curing pork with salt or in brine solution. After maturing it is sold as unsmoked bacon. It can be smoked to add extra flavour to the bacon. The meat is usually darker in colour and has a distinctive flavour.				
Gammon Famou	This is cured whole leg of pork. It is cut into slices and eaten hot as gammon steaks. It could be eaten cold as ham. Some hams may be cured and smoked such as 'honey roast'. This adds a distinctive flavour and extends the shelf-life of the			

Other sources of meat can include:

product.

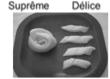
Horsemeat	M	Pot
Goat	18	(6)
Rabbit	1	
Venison		4



Offal: Meat is the edible internal organs are called Offal

Know your fish cuts





Paupiette

Gougons

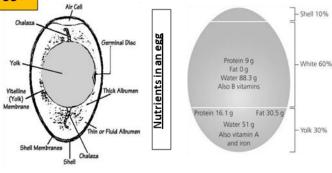
Cuts of fish:

Large fish (e.g. cod, coley, haddock) are cut into fillets, steaks or cutlets. Small and medium fish (e.g. herrings, mackerel, rainbow trout) are usually sold whole and can be filleted by removing the backbone, tail, head and fins2 Very small fish (e.g. sprats and whitebait) can be fried and eaten whole.

4. Commodities Eggs

Eggs are an important food commodity which provides nutrients essential for health. Eggs provide a variety of different textures, colours and flavours to dishes. Eggs can be used in a variety of different

ways.



Organic	These are more expensive as hens have to have access to organic land and eat an organic diet.
Free Range:	The hens are reared in large barns with daytime access to outside runs. There are no feeding guidelines (by products and GM foods to increase productivity and profit margins)
Barn:	The hens are reared in barns with no outside access. They are provided with perches, platforms, nest boxes and litter areas. Areas can be quite crowded with up to 16,000 hens in a barn—depends on the keeper.
Caged;	This makes up approximately 78% of the market. Hens are crammed into a cage so small they can't stretch their wings. The space they have is about the size of an A4 (this page) piece of paper. They cannot follow their natural behavior patterns. Their bodies suffer through lack of exercise. Birds can lay dead for days before they are taken out of the cage. Debeaking, brittle bones, tumors and pecking are common.

How to grade Eggs

All eggs sold at grocery stores must meet strict standards. Only those of high quality reach the consumer. Eggs must be checked for interior quality by candling, a process where eggs are passed over a strong light to show the shell and interior.

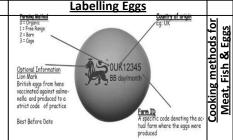
Grade A: Thick white Round, well centered yolk Small air cell (less than 5mm deep)Clean, un-cracked shell with normal shape

Grade B: Mostly used for commercial baking or go to hospitals, restaurants, etc. very few are sold at retail stores. Yolk is slightly flattened; white is thinner Shell is un-cracked and may have a rough texture; and/or be slightly soiled and stained.

Grade C: The lowest egg grade, these are used in the production of processed egg products only. They are not sold in retail stores Yolk is flattened and may be oblong in shape; white is thin and watery. Shell may be cracked and/or stained

Storing eggs Eggs should be stored in the fridge or a cool place away from strong smelling foods. Eggs should be 2 = Barn 3 = Cage stored blunt end upwards. They should be removed an hour or so before use, because cold eggs do not SOUK12345 whisk well. Optional Information Lion Mark

Eggs stay in good condition if stored correctly for two to three weeks. Eggs cannot be frozen whole but the whites and yolks can be frozen separately in containers. Always use eggs by the best before date. Eggs can be preserved by pickling.



The structure of a hen's egg

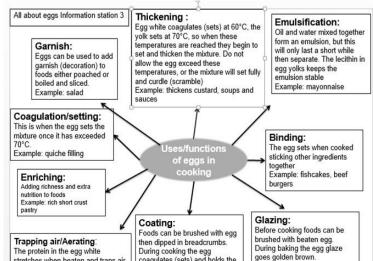
The shell: consists of an outer cuticle (a transparent, protective coating, a true shell and inner membranes. The shell is porous (pores are tiny holes), and therefore allows the developing chick to obtain oxygen. At one end of the egg, the membranes separate into an air space, to supply the chick with oxygen.

The air space: increases in size as an egg gets older, because water is lost from the egg and air is drawn in. The fresher the egg, the smaller the air space. This is why fresh eggs sink in water and rotten eggs float.

The yolk: full of goodness (vitamins A, D, E & K) and has a higher concentration of protein than the white.

The white: contains riboflavin and other B vitamins and a small trace of fat The anchors/chalazae: white strands attached to the thick albumen which anchor the yolk in the middle of the egg.

Functions of eggs



Sizing Eggs

Size	Weig ht
SMALL	53g + under
MEDIUM	53-63g
LARGE	63-73g
EXTRA LARGE	73g+ over

coagulates (sets) and holds the product together.

Example: fish cakes

stretches when beaten and traps air Example: sponge cake and meringues

Storing Meat, Fish & Eggs

Example: pasties, sausage rolls

READY TO EAT FOOD Such as dairy products, yoghurt & cream

READY TO EAT FOOD Such as cream cakes, butter, cooked meats, leftovers & other packaged food.

RAW MEAT. POULTRY & FISH Always cover & keep in sealed containers

SALAD, FRUIT & VEGETABLES Keep ready to eat fruit and vegetables in sealed bags or containers, always wash before use.

Another substitute milk for people allergic to

A concentrated, sterilised milk product. It has

a concentration twice that of standard milk.

Evaporated milk is heat treated and then

temperatures between 60°C and 65°C The

evaporated milk is poured into cans, which

moved to a steriliser where they are held for

Concentrated in the same way as evaporated

Produced by evaporating the water content

An alternative for vegans or people with

are then sealed. At this point the cans are

milk, but with the addition of sugar.

evaporated under reduced pressure, at

Under EU law, all meat and poultry for human consumption has to show traceability. Under the law, traceability means the ability to track any food, feed, food-producing animal or substance that will be used for consumption through all stages of production, processing and distribution.

Red Tractor

The Red Tractor

logo gives information on where the food has been farmed, processed and packed. Food given to animals on farms displaying the Red Tractor logo is safe from them to eat with no risk of contamination to the meat or milk produced. The animals' health and welfare is regularly checked.

Farmers under this scheme must also use responsible farming methods not to pollute land and minimise the impact of their farming methods on wildlife, fauna Red Tractor DAGRY Farm Assurance FARMS

and flowers.

RSPCA Assured



Previously Freedom Food, this is the RSPCA's ethical food label dedicated to animal welfare. The RSPCA Assured label makes it easy to recognise products from animals that have had a better life. It is found on the packaging of meat and dairy products which have met animal welfare

Animal Welfare

There are symbols on packaging to show that meat and poultry have met welfare standards. Animal welfare refers to the well-being of animals and covers areas such as the animals' access to fresh water and a diet to maintain full health. It also gives assurance that animals are reared free of any discomfort, pain, injury or disease, and are provided with adequate shelter and a comfortable resting area.

Commodities – Milk

Milk is an important food commodity which provides nutrients essential for health. Milk is considered nature's most perfect food. A variety of different foods can be made from milk.

Milk is a pale liquid produced by the mammary glands of mammals. It is the primary source of nutrition for infant mammals (including humans who breastfeed)

How milk is used:

As a drink on its own or flavoured - for its nutritional content. Added to cereal to improve the nutritional content, it changes the texture

As an essential ingredient in batter, sauces and custards—it allows Gelatinisation., combining with egg to coagulate into a soft product. In baked products such as cakes, biscuits and bread, providing moisture to help them rise and produces a soft texture as it stops starch and fat clumping together.

The fat is separated from the rest of the milk to make

When acid is added it curdles and becomes solid or semi-solid, making cheese

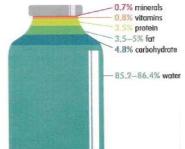
Cream is churned (moved around quickly—beaten) to make butter Yoghurt is fermented milk. A bacteria culture is added.

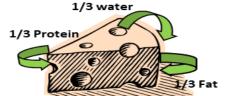
This breaks down the protein and makes it coagulate

Where does Milk come from?

Milk can come from, a cow, a goat, a sheep and even a horse. Milk can also be made from sova beans, rice and wheat.







Goat's milk

Evaporated

Condensed

Dried milk

Almond and

coconut milk

powder

milk

milk

cow's milk.

10 minutes.

allergies

of milk using heat.

6. Commodities - Dairy **Produce**

Cheese can be described as a solid or semi-solid form of milk. It is sometimes referred to as a fermented dairy food. It is made from cows', ewes', goats' or buffalo milk.

Ways to preserve milk - Heat treatments Pasteurised A mild heat treatment. It only kills pathogenic bacteria to make it safe to drink. It extends the shelf life. It needs to be kept chilled. There is no change in flavour or nutritional value. The fat (cream) rises to the top.

UHT or Long life Milk is sterilised—heated to 100°C for 20 minutes to kill all bacteria. It also destroys the B vitamins. Milk is homogenised. Milk is packaged using aseptic packaging.

Evaporated Milk Evaporated milk is a concentrated, sterilised milk product. It has a concentration twice that of standard milk. The process of producing evaporated milk involves standardising, heat treating and evaporating the milk under reduced pressure, at temperatures between 60°C and 65°C. It is then homogenised and cooled. The evaporated milk is poured into cans, which are then sealed. At this point the cans are moved to a steriliser where they are held for 10 minutes. A cooling stage follows and the cans are then labelled and packed.

Condensed Milk Condensed milk is concentrated in the same way as evaporated milk, but with the addition of sugar. It is not sterlised but is preserved by the high concentration of sugar. It can be made from whole milk, semi skimmed or skimmed milk. The heat treatment used consists of holding standardised milk at a temperature of 110-115°C for one to two minutes. The milk is then homogenised. the sugar added and the sweetened milk is then evaporated at low temperatures (between 55-60°C). The concentration of the condensed milk is now up to 3 times that of the original milk. The milk is then cooled rapidly to 30°C and packaged. Sweetened condensed milk is commonly used in the sugar Dried Milk Powder Milk powder is produced by evaporating the water from the milk using heat. The milk is homogenised, heat treated. Skimmed milk powder can be mixed easily with water; however whole milk isn't easily reconstituted due to its

Uses of Cheese

Cheese can:

- provide flavour (e.g. when making a white sauce adding cheese gives improved flavour)
- be used to make both sweet and savory dishes.
- provide colour (e.g. when sprinkled on top of dishes and grilled or baked it will turn an attractive brown colour)
- provide texture (e.g. when melted in can provide a soft, moist and stringy texture)
- increase the nutritional value of a dish

How should cream be stored:

All fresh cream must be stored in a refrigerator at 5'C. sterilised/long life/ UHT cream has a long shelf life and can be stored, unopened, in a kitchen cupboard. However once opened this cream must be treated the same as fresh cream.

6. Commodities - Dairy Produce

Soft cheeses have the most moisture

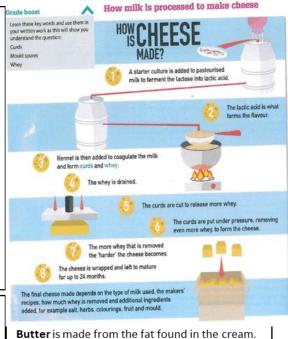
- Some soft cheeses are left to ripen such as Brie and Camembert
- Cottage cheese has a bacteria added to it that makes it clump together in lumps
- Ricotta is a soft whey cheese low in fat Moulds grow on the outside and help to soften the curds inside

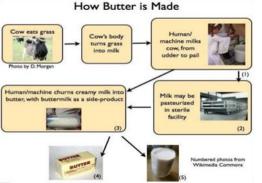
Semi-hard cheeses are 'pressed' cheeses - but not pressed as much as hard cheeses! are examples

- · Lancashire, Wensleydale, Caerphilly, Edam, Gouda Port Salut, St Paulin
- Feta cheese is preserved in a brine solution
- Mozzarella is a cheese that is cooked during its process. This gives it its stringy texture

Hard cheeses have the least moisture. Examples are: Cheddar, Leicester, Double Gloucester, Cheshire Gruyère, Emmental, Parmesan, Parmesan is the hardest cheese of

Cream is derived from the fat found in all fresh milk. Cream is the concentrated fat, which has been skimmed from the top of milk. Types of cream: Single cream, Double cream, Whipping cream, Clotted cream, Ultra heat treated (UHT) cream. Cream is used to add a creamy texture and flavour to dishes. The correct cream must be used for specific tasks because different types of cream have different properties – for instance single and clotted creams cannot be whisked for pipping whereas whipping and double cream will aerate when whisked.





Made by adding bacterial culture to cream Whole grain wheat Whole grain wheat as harvested

HOW IS CREAM

. . . .

Creem with a bocterial

culture added.

· Produces lectic acid.

. This sours and thicker

Refined wheat flour

produced >

· Fresh caws' milk is placed in a shallow pen and left for 6-14 hours

a temperature of 80-90°C for 40-50 minute

ed, 'potted' up and sold as clotted crea

· Produced from LINT milk.

High temperatures during Util processing gi

Unopened cream can be stored at ombie

Once opened must be stored in a refrigerate

Mode by mixing creem with pic

Volume doubles

Cooled for 24 hours and 'clots' of cream with a firm yellow crust are formed. This cream is

Clotted creem has a rich, buttery flevour, and

. Green floots to the surface of the milk. This mixture is then heated over a water both or

Yoghurt is made from milk. It is made by adding harmless edible bacteria to the milk, which causes it to ferment. This means the carbohydrate (sugar) in the milk, which is lactose, is converted into lactic acid by the bacteria. The lactic acid will set the milk's protein, which will thicken it. The lactic acid will also give the yoghurt its characteristically tangy flavour. Different yoghurts can be made from different types of milk. Some yoghurt will include additional ingredients such as sugar, which is used to sweeten it (e.g. fruit and other flavours such as honey or vanilla). Examples of types of yoghurt: Set yoghurt: is set in the pot in which it is sold. Has a firmer texture than other yoghurts. Live yoghurt: this has been fermented with live culture bacteria that are still living. Greek (strained) yoghurt: made from cows' or ewes' milk. It can be quite a thick yoghurt and is higher in fat. Nutritive value of yoghurt: Yoghurt will provide the following nutrients: Protein, Fat Calcium, Carbohydrates, Vitamins, Water Storage of yoghurt - Store in the refrigerator between 1 and 5°C. Use before the use-by date.

Bread is a staple food in much of the world. It is made from strong flour, yeast, salt and water. Fat is often added to extend the shelf life of bread. Sugar is added for sweetness and to add colour.

Whole wheat flour

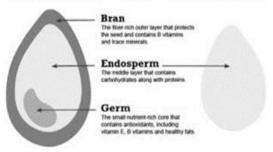
7. Commodities: Cereals

A 'wholegrain' is made up of three elements:

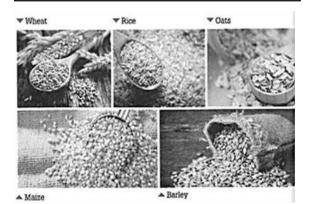
- a fibre-rich outer layer the bran
- a nutrient-packed inner part the germ
- a central starchy part the endosperm.

Whole Grain

"White" Grain



Cereals provide a valuable source on energy in the diet, as well as other nutrients if the wholegrain is used. These include: Fibre, Protein, Carbohydrates, VitaminE, Bvitamins, Fat, Iron.



How cereals are processed:

Processing the flour after milling

After the milling process, different grades of flour are produced by sifting, separating and regrinding the flour several times. These grades are combined as needed to produce different types of flour. Small amounts of bleaching agents (to make the flour white) and oxidizing agents (to enhance the baking

quality of the flour) are usually added to the flour after milling. Nutrients calcium, iron and B group vitamins are added to. This is called fortification. Baking powder will be

added to make self-raising flour. Flour: Flour comes from different types of cereals,

e.g. rye and wheat. Wheat flour is one of the main flours produced. There are different strengths of wheat flour depending on its uses: Strong flour is used in bread making and comes from winter wheat, which is a hard Wholemeal flour is made from the whole wheat grain, nothing is added or taken away. It is referred to as having 100% extraction rate. It is a good source of dietary fibre. Brown flour usually contains about 85% of the original grain. Some bran and germ have been removed. White flour usually contains around 70-72% of the wheat grain. Most of the bran and wheat germ have been removed during the milling process. Granary flour is made by adding malted wheat (which has been toasted and flaked), to any type of flour but usually it is added to wholemeal or brown flour. Stoneground flour is wholemeal flour ground in a traditional way between two stones. Organic flour is made from grain that has



Rice is one of the most popular staple foods eaten by the world's population.

- It is a very versatile commodity because it can be used to make both sweet and savour dishes
- Rice is served as part of a meal to provide bulk and a feeling of fullness.
- It is quick to cook
- It is a good store cupboard ingredient as it has a long shelf life and is easy to store.
- Rice can be quite bland in flavour. This can be improved by cooking it with flavoursome ingredients such as garlic and herbs, or by cooking the rice in stock instead of water.

Varieties of rice:

There are many different varieties of rice available in supermarkets and it is sold in a variety of different forms, for example boil-in-the-bag, easy cook and pre-cooked. Rice can be short grain or long grain and most types are available as brown or white rice.

Pasta is made from strong wheat known as durum wheat. This type of wheat contains more protein than common wheat. During the milling process the wheat produces semolina. This is the coarsest grade of the starchy endosperm. To make pasta, water is added to form a dough, which can be shaped or extruded (forced though an opening in a shaped plate and then cut to a specific size) to produce the type of pasta required. Other ingredients that can be added during the making of the pasta dough include eggs, oil, salt and various flavourings. Different shapes, sizes and styles of pasta are widely available to buy in shops. Various colours of pasta re also sold: Green pasta is made using spinach, which provides the colour as well as some flavour. Red pasta is made using tomato paste. Squid ink pasta or black pasta is dark grey, almost black in colour and is made using, as the name suggests, squid ink. This can sometimes give the pasta a mild seafood flavour. Dried pasta is popular due to its long shelf life and versatility. It can be combined with many other ingredients. Fresh pasta must be stored in a refrigerator. Fresh and homemade pasta can be frozen Homemade pasta must be allowed to dry and then stored in an airtight container in the refrigerator. Cooked pasta should be stored in an airtight container in the refrigerator. Rinsing with cold water after cooking will stop it sticking together.

Year 8 Half-Term 1 French Knowledge Organiser

Unit 1: Vive les vacances!

Point de départ

J'habite... I live in England / Scotland / (Northern) Ireland en Angleterre / Écosse / Irlande (du Nord). au pays de Galles in Wales J'ai / On a... I have / We have une semaine /deux semaines de vacances a week / two weeks of holiday in January / February (etc.). en janvier / février (etc.). at Christmas / at Easter

à Noël / à Pâques. Je suis / Nous sommes en vacances... au bord de la mer.

à la montagne

à la campagne en colo (en colonie de vacances). chez mes grands-parents.

C'est... assez / très / trop / un peu / complètement quite / very / too / a bit / completely nul / sympa

ennuyeux / intéressant

triste / marrant

Unit 1- Tu as passé de bonnes vacances?

Pendant les vacances... During the holidays... J'ai joué au tennis I played tennis J'ai mangé des glaces I ate ice creams J'ai retrouvé mes amis I met my friends J'ai écouté de la musique I listened to music J'ai acheté des baskets I bought some trainers J'ai regardé des clips vidéo I watched video clips J'ai nagé dans la mer I swam in the sea J'ai traîné à la maison I hung around the house

Unit 4- Quel désastre!

J'ai oublié mon I forgot my passeport passport I broke my J'ai cassé mon portable phone J'ai perdu mon I lost my porte-monnaie purse J'ai choisi le I chose the fish poisson I vomited a J'ai beaucoup vomi lot I fell over on Je suis tombé sur la plage the beach Je suis resté(e) I stayed in au lit bed

we missed On a raté l'avion the plane On est arrivé(e)s we arrived en retard late

by train / by en train / en voiture car

Unit 2- Qu'est-ce que tu as fait?

What did you do during Qu'est-ce que tu as fait pendant les vacances? the holidays?

J'ai visité un parc

d'attractions I visited a theme park

J'ai bu un coca au café I drank a cola in the café

J'ai pris beaucoup de

photos I took lots of photos J'ai vu un spectacle I saw a show

J'ai fait une balade en

bateau I went on a boat ride j'ai vu mes personnages I saw my favourite

préférés characters

J'ai fait tous les manèges I went on all the rides

d'abord first ensuite / puis then / next après after finalement finally C'était... it was

fantastique/génial/super! fantastic/great/super amusant/marrant/sympa fun/funny/nice intéressant/ennuyeux/nul interesting/boring/rubbish

Ce n'était pas mal it wasn't bad

Unit 3 - Tu es allé(e) où?

Tu es allé (e) où en Where did you go on vacances? holiday? Tu es allé(e) en vacances Who did you go on avec qui? holiday with? Je suis allé(e) en I went on holiday

vacances avec... with... ma famille / mes my family / my

parents / my friends parents / mes copains

On est allé(e)s / Nous

sommes allé(e)s... We went... to Spain / France / en Espagne / France /

to Morocco / to the

Grèce Greece

au Maroc / aux États-Unis USA

Phonics! Nasel

sounds

I am / We are on holiday...

at the seaside

in the mountains

rubbish / nice

sad / funny

boring / interesting

in the countryside

at a holiday camp

at my grandparents' home

- en/an, un/in vacances / ennuyeux / intéressant / on a / un peu

é (in past j'ai joué participles)

silent final e ie ioue j'ai bu / j'ai vu

Tu as voyagé comment? How did you travel? I travelled

J'ai voyagé... On a / Nous avons

voyagé... en avion / en bateau en bus / en car en train / en voiture

We travelled... by plane / by boat by bus / by coach by train / by car

Unit 5 - Mon voyage extraordinaire!

j'ai nagé dans la mer I swam in the sea J'ai fait de la voile I went sailing J'ai vu des dauphins I saw dolphins

Frenc

Year 8 Half-Term 1 French Knowledge Organiser

Unit 1: Vive les vacances!

Qu'est-ce que tu as fait?														
J'ai visité I visited				J'ai vu un spectacle. I saw mes personnages préférés.		ersonnages	J'ai fait I did	une balade en bateau tous les manéges		et c'ét and it	was co	ul – rubbish rmpa - good ool – cool nnuyeux - boring uper – great		
Point de dép	part													
J'habite en Angleterre - in England I live en Angleterre - in England au Pays de Galles – in Wales et j'ai – and I have deux semaines de vacances – 2 weeks holiday à Noël /Pâques – at Christma: Easter														
Tu as passé	des bo	nnes vaccances?												
Pendant les vacances During the holidays J'ai joué au tennis J'ai mangé des glaces J'ai mangé des glaces J'ai retrouvé mes amis J'ai écouté de la musique J'ai écouté des baskets J'ai equaté des clips vidéo / watched video clips J'ai i joué au tennis J'ai joué au tennis J'ai joué au tennis J'ai joué au tennis J'ai i nagé dans la mer J'ai fait de la voile J'ai vu des dauphins J'ai vu des dauphins														
Tu es allé(e)) où?													
Je suis allé(e) en Espagne /France/ Grèce I went au Maroc Nous sommes allés(e)s aux États-Unis We went				et	voyag en av en bu	/ Nous av gé vion / en b us / en car ain / en vo	We tro bateau by pla ar by bus	avelled ane / by boat s / by coach ain / by car	et	J'ai bu un co J'ai pris beat photos J'ai vu un sp J'ai fait une bateau	ucoup de pectacle	I drank a co I took lots o I saw a sho I went on a	w	
Quel désast	Quel désastre!													
J'ai oublié r passeport J'ai cassé m portable J'ai perdu n porte-moni	non	I forgot my passport I broke my phone I lost my purse	et	sur la p	plage s resté(e)	I fell over o the beach I stayed in bed)	et aussi	On est arriv en retard en train / e voiture	ivé(e)s <i>we an</i> late en <i>by</i> tra car	rrived ain / by		l désastre! lle horreur!	What a disaster! How horrible!

Year 8 Half-Term 2 French Knowledge Organiser

Unit 2: J'adore les fêtes

<u>Unit 5- Mon</u> voyage extraordinaire!

Normalement, normally, pendant les during the vacances... holidays...

I go to a holiday

je vais en colo camp

je nage dans la I swim in

piscine the pool

je fais du sport I do sport
je mange des I eat
hamburger- burgers
frites and chips
Mais l'année but last
dernière... year...
j'ai gagné un I won a

concours

Point de départ

Noël Christmas
Pâques Easter
le 14 juillet Bastille Day
le Nouvel An New Year's Day
la Toussaint All Saints' Day
la Saint-Valentin Valentine's Day

l'Aïd Eid

mon anniversaire my birthday

Quelle est ta fête préférée? What's your favourite festival?

j'aime (beaucoup) ... I love ...
je préfère ... I prefer ...

je n'aime pas tellement ... I don't particularly like ...

je n'aime pas ... I don't like ...
je n'aime pas du tout ... I really don't like ...

Je déteste ... I hate ...

manger des œufs en chocolat. eating chocolate eggs. danser et chanter. dancing and singing.

choosing presents.

visiting my cousins.

having a sleepover.

fun, funny / boring.

It is ...

silly.

choisir des cadeaux.

rendre visite à mes cousins. faire une soirée pyjama.

C'est ...

marrant / ennuyeux.

bête.

trop militaire. too militaristic.
trop commercial. too commercialised.

Unité 1 Quelle est ta fête préférée?

ie porte un masque
ie retrouve mes copains
ie regarde la parade
je finis mes devoirs
je choisis des vêtements ...
j'attends la fête avec impatience
je rends visite à ...
j'entends la musique
les spectateurs
chaque année

les spectateu chaque année le matin l'après-midi le soir

une parade / un défilé

un groupe de gens / filles / garçons /

musiciens / d'enfants Ils/Elles sont ...

dans la rue. / en ville.

IIs/Elles ... marchent / applaudissent

dansent

jouent d'un instrument.

lls/Elles portent des vêtements ... traditionnels / colorés /

bizarres / incroyables
IIs/Elles portent des drapeaux.

I wear a mask
I meet my friends
I watch the parade

I finish my homework
I choose ... clothes

I am looking forward to the festival

I visit ...

I hear (the) music

spectators every year (in) the morning

(in) the afternoon (in) the evening

a parade

a group of people / girls / boys /

musicians / children

They are ...

in the street. / in town.

They ...

are walking / clapping

dancing

playing an instrument.
They are wearing ... clothes.

traditional / colourful / strange / amazing They are holding flags.

Unité 4 Tu vas faire un voyage scolaire?

competition

Qu'est-ce que tu vas faire? je vais ... aller en Alsace visiter les marchés de Noël choisir des cadeaux admirer les maisons illuminées What are you going to do? I am going ... to go to Alsace to visit the Christmas markets to choose presents

to admire the illuminated houses

écouter des chorales goûter du pain d'épices acheter une boule de Noël manger une tarte flambée / de la choucroute boire un jus de pomme chaud to listen to some choirs to try gingerbread to buy a Christmas bauble to eat a pizza-like tart / sauerkraut to drink a hot apple juice

Phonics	
Nasel sounds	– en/an/em, un/in tellem en t / m an ger nov em bre / v in gt-et- un
silent final e	je port e / je regard e

Year 8 Half-Term 2 French Knowledge Organiser

Unit 2: J'adore les fêtes

Mon voyage extraordinaire

Normalment - normally Pendant les vacances - On holiday à Noël – At Christmas à Pâques - At Easter

je vais en France – I go to France ie vais en colo – I go to a holiday camp je nage dans la piscine – I swim in the pool je mange dans un restaurant – i eat in a restaurant je fais du sport – I do sport

à la campagne – in the countryside au bord de la mer - at the coast avec ma famille / mes amis with my family / friends

et c'est and it is nul – rubbish sympa - good cool - cool ennuveux - boring super - great

Quelle est ta fête préférée?

J'adore J'aime Je n'aime pas Je déteste Je préfère

Noel **Paques** le 14 iuillet le nouvel an la Toussaint la Saint-valentin Fid mon anniversaire

car c'est

marrant trop militaire ennuyeux bête trop commercial amusant Sympa nul

Le matin L'après-midi ••• Le soir Chaque année

je porte un masque. je retrouve mes copains. je regarde la parade. ie choisis des vêtements. ie rends visite à..... i'entends la musique. je mange des œufs en chocolat. ie reçois/choisis des cadeaux.

J'adore J'aime Je n'aime pas Je déteste Je préfère

 $\nabla\!\nabla\!\nabla$ danser manger du chocolat acheter des cadeaux aller chez ma mère/mes cousins faire une soirée pyjama



Qu'est ce que tu as mangé comme specialité?

la chandeleur

A Pâques Pour mon anniversaire (place name). A Noel

je suis allé(e) à _. J'ai mangé On a mangé Nous avons mangé J'ai bu On a bu

une crêpe, des moules-frites. une quiche lorraine, de la bouillabaisse. un ius d'orange. un coca,

une spécialité un plat typique du nord du sud de l'est de l'ouest du nord-est du sud-ouest de la France. de la Guadeloupe.

vraiment C'était un peu trop

délicieux léger sucré salé savoureux i'adore le chocolat. i'aime les fruits de mer.

Qu'est-ce que tu vas faire à....?

Le (date) (month) Demain La semaine prochaine on va aller à (place name)

en train en voiture en car en avion

Je vais

goûter

aussi

ie vais acheter

des cadeaux des souvenirs une boule de Noel du chocolat

Year 8 - Rainforests Biomes: A large naturally occurring community of flora (plants) Tropical Rainforest - Layers of the rainforest and fauna (animals) occupying a major habitat. **Emergent layer Key Characteristics Distribution of Biomes** Biome Tallest trees – over 40m. Lots of sunlight here. •Along equator (Asia, Africa / South America). •6% of Eagles, Monkeys, Bats EMERGENT LAYER Tropical earth's surface. •25°C – 30°C and over 250mm rain per Rainforests month. Canopy **Tropical** Primary layer of forest. 30-45m. Lots of leaf cover •Between equator and tropics. •20 – 30°C and between Grasslands creating dense canopy, blocking sun from lower Tropic of 500 - 1500 mm of rain per year. •Wet and dry seasons. (Savanna) layers. Food is abundant for animals here e.g. birds, monkeys, sloths, snakes, frogs. •Tropics (Sahara and Australia). •Over 30°C and less than -Equator Deserts 300 mmm per year rain. •20% of land's surface. Tropic of Understory •Higher latitudes (W Europe, N America, New Zealand). •5 Low light conditions. Plants grow large leaves. **Temperate** – 20°C and between 500 − 1500 mm rain per year. •4 Rarely grow taller than 4m. Birds, butterflies, Deciduous distinct seasons. •Lose leaves in the winter to cope with frogs, snakes and insects. forests the cold. Shrub layer/Forest floor Coniferous •60°N (Scandinavia / Canada). •Cone bearing evergreen Very little light, so very few plants grow. Ground forest (Taiga) trees. •No sunlight for part of the year. Tropical forest Polar and high-mountain ice Temperate deciduous forest Savanna Chaparral Coniferous forest is covered with fallen leaves and rotting branches. •Above 60°N (Arctic Circle). •Less than 10°C and less than Desert Temperate grassland Tundra (arctic and alpine) Jaguars, Leopards, Tigers, Gorillas and insects. 500mm per year rain. •Cold, icy and dry means 2 month Tundra growing season. Tropical rainforests are located along or close to the equator. The lie Causes of deforestation (cutting down and removal of trees by humans) between the Tropics of Cancer and Capricorn. The largest is the Amazon in **Tropical Rainforest – Animal adaptations** South America. Responsible for 63% of Amazon deforestation. Clear trees to Jaguars have spotted fur. This camouflages Cattle ranching provide space for cattle to graze. Need to move regularly due to Rainforest Climate them in the shaded forest floor. lack of nutrients in soil. Climate Graph for Manaus, Brazil Parrots have strong, sharp beaks to help Farming crops such as Soy or Palm plantations for palm oil. Palm Rainforests experience high them crack open nuts. Commercial farming Oil plantations are the biggest cause of deforestation in rainfall (at least over 2000m a Monkeys have long prehensile tails to Indonesia. year) and steady, warm swing easily through the trees. The business of cutting down trees and transporting the logs to temperatures (around 28°C) Poison dart frogs are a bright colour to Logging sawmills. Hard woods like Teak and Mahogany are worth the every day. warn predators away. most. Climate graphs show Mining The removal of minerals from underground e.g. Gold, iron ore **Tropical Rainforest - Plant adaptations** Precipitation and Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec A type of agriculture producing food and materials for the benefit Temperature. Competition for light causes trees to grow fast, tall and ■rainfall (mm) →temperature (C) Subsistence farming only of the farmer and his family or community. Small scale, often straight. slash and burn. Effects of deforestation Buttress roots support the tall trees due to the shallow Dams have been built and large areas of rainforest destroyed by nature of the root system underground. **Economic development** Contribution to climate change **Dams** flooding to provide hydro-electric power (HEP). 90% of Brazils Plants on the forest floor are shade tolerant and able to cope +Provides jobs for local people Trees cut down change the water energy created by HEP. in the darker conditions. +Boosts local economy cycle and make it drier. The 4000km long Trans Amazonia Highway built 1970s. Opened Roads +More taxes are paid to help country Rainforests are the lungs of the Epiphytes grow high up on the branches of trees to gain up rainforest, but allowed loggers in. earth and so when deforested develop access to the light. **Managing Rainforests Sustainably** there is more carbon dioxide in - Destroys resources in the long term. Lianas wrap themselves around other trees to gain access to - Livelihoods of locals destroyed e.g. the air and less oxygen. **Sustainable Development** - Meets the needs of the current population without Burning also releases carbon Rubber tappers. Plants have drip tips and waxy surfaces to allow water to drip compromising the needs of future generations. - Mercury from gold mining poisons dioxide into the air (Greenhouse off, stopping the leaf moulding or snapping with the weight Afforestation – Plant more trees once you've cut some down. fish. effect). Selective logging - Only chop down fully grown trees. Education and conservation - WWF (NGO) educate and train conservation workers. Soil erosion Others **Ecotourism** – Small scale, local guides and food. Environmentally friendly activities. Land left unprotected from heavy Loss of biodiversity Minimises damage to the environment & benefits locals. E.g. Yachana lodge rain leads to landslides and Loss of indigenous tribes & International agreements. International Tropical Trade Agreement restricts trade in flooding. knowledge hard woods. Nutrients are washed away Conflicts between developers and indigenous people. decreasing nutrients in the soil.

Key terms			Nike T shirt chain of	fproduction	TNC's				
Globalisation Globalisation is how the world is becoming interconnected and countries are becoming more interdependent. Interdependent- When 2 countries are dependent on one another			of production is the journey a se lesigns T-shirt in Nike world HO ers grow cotton in India, perfects is in sent to mill to be woven into	Transnational corporations TNCs or multinational corporations (MNCs) are companies that operate in more than one country. They often have factories in countries that are not as economically developed because labour is cheaper. Offices and headquarters tend to be located in the more developed world. Unilever, McDonalds and Apple are all examples of TNCs.					
		4.) Cloth	sent to <mark>factory in Indonesia to</mark>	be made into T-shirt (labels	Advantages		Disadvantages		
LIC : Low Income	rging Economies e.g. India/China.	poor wor 5.) <mark>Transp</mark> 6.) Taken	These are often sweatshops wirking conditions Corted across ocean in contain to shops to be put on sale in to the sound in the sale in t	er ship, all over the world	 Creation of jobs Stable income and more reliable than farming 	th • Po • D	the scale of investment Poorer working conditions Damage to the environment by		
daily life.			Nike Cotton Farm	ers in India	 Improved education and skills 		noring local laws rofits going to companies overseas		
Quality of life: is a social measure of well being e.g. Life expectancy or Literacy Rates.			the most important of natura	l fibres, accounting for almost a plant which is grown in more	• Investment in infra- structure, e.g. new roads - helps locals as	rather than locals Little reinvestment in the local area Factories are often footloose and jobs			
TNC- Tran's national corporation- TNCs or multinational corporations (MNCs) are companies that operate in more than one country			ton farmers in India live in poversion around the price they can sell elow, then they struggle, whe	 well as the TNC A better developed economic base for the country 	• na	insecure. If labour costs increase, the company may move elsewhere natural resources being over-exploited			
	leap clothing produced rapidly by mass- in response to the latest trends	better. Worldwide cotton prices are going down as more and more countries are starting to produce it. Also, less cotton is being grown by farmers due to climate change.			Year 8: Globalisation and fashion industry				
Why has globa	lisation increased?				Winners of the Fashion Losers of the fashion industry				
• Improved tra		Nike in Indonesia			industry				
	che internet coming more developed rge companies	The Nike world HQ is located in Oregon, USA. Nike operates in more than 160 countries. It has nearly 1 million employees worldwide. Many of the factories are located in the Indonesian capital of Jakarta. Positives Negatives			Fashion shops/labels E.g., Nike Charge high amounts for their products, but pay workers in LIC's small amounts of money which gives Cotton Farmers Work long hours, 6 days a wee 7.5p an hour. Work in harsh, b conditions. Suffer from heat e				
					them big profits.		allergies and respiratory problems.		
Apple iPhone e	xample of Globalisation:	Factory workers have a job. E > 3 Workers in the Nike HQ and		\$1.25 an hour is not seen as enough money to maintain a	Sports people Get paid a lot of money to wea	r	Factory workers Earn \$1.25 per hour, not enough to have		
Designed	Designed in SILICON VALLEY California	Economic (money and jobs)	sports people get paid very	good QOL.	branded clothes. E.g. Ronaldo s a \$1billion lifetime contract.		a decent QOL. Living conditions are poor, housing is basic, lacks sanitation.		
Assembled	All components put together in China.		well. Provides jobs therefore	Living conditions of workers are	a \$15mon metime contract.		Children often cant go to school as		
Gyroscope	This part allows your to change the display from vertical to horizontal and is made in Europe.	Social (peoples lives)	reduced unemployment in many LIC countries. Nike improves infrastructure, so local towns benefit.	poor, housing is basic, lacks sanitation. Children often cant go to school as workers cant afford it.	Consumers Get products easily which are well made. Fast fashion allows consumers		workers cant afford it. Consumers Paying a lot for products which didn't cost much to make, and have been		
Minerals used in lots of the	E.g. Coltan and cobalt come from areas all over the world, including		The environment around Nikes HQ is well looked after.	Nike burn left over shoe rubber releasing toxic fumes which	to keep up with the trends in a manner.		made in sweatshops.		
components Memory cards	China. Come from Korea and Taiwan	Environmental (surrounding environment)		harms peoples QOL as children get lung diseases.	Phil Knight (Ex CEO of Nike) Worth \$44 billion. 26 th Richest the world	man in	32		

Year 8 Half-Term 1 German Knowledge Organiser

Unit 1: "Ich" – Key Vocabulary, Phonics, and Grammar

1 - Hallo! Meeting and greeting Wie heißt du? What's your name?

Ich heiße ... My name is ...

Hallo! Hello!/Hi! Guten Tag! Hello!

How are you? Wie geht's? Gut, danke. Und dir? Fine, thanks. And you?

Nicht schlecht. Not bad. Tschüs! Bye! Auf Wiedersehen! Goodbye!

4 - Wie bist du? What are you like?

Ich bin ... I am ...

He/She is ... Er/Sie ist ... faul lazv freundlich friendly intelligent intelligent

kreativ creative launisch moody

laut loud lustig funny musikalisch musical sportlich sporty

Phonics! ich heiße ß (ss) z (ts) zwei dr**ei / ei**ns ei (eye) ie (ee) sieben / vier w (V) ich **w**ohne ch (Hugh vs. loch) freundlich vs. auch Schlang**e** e (eh)

10. zehn 2 - Die Zahlen 1-19 Numbers 1-19 11. elf

12. zwölf 1. eins

13. dreizehn 2. zwei

drei

6. sechs

7. sieben

8. acht

9. neun

to be I am

du bist vou are

Key verb!

sein

ich bin

er ist / sie ist / es ist he is / she is / it is

14. vierzehn

15. fünfzehn 4. vier 16. sechzehn

5. fünf 17. siebzehn

18. achtzehn

19. neunzehn

Wie alt bist du? How old are you?

Ich bin ... Jahre alt. Wie alt ist (Julia)?

I am ... years old.

How old is (Julia)

3 - Wo wohnst du? Where do you live?

Ich wohne in ... I live in ...

He/She/It lives in ... Er/Sie/Es wohnt in ...

...England England Ireland ...Irland

Northern Ireland ...Nordirland

...Schottland Scotland Wales ...Wales

...Deutschland Germany

...Österreich Austria

...der Schweiz Switzerland

> Fragewörter **Question words**

Wie? How? Was? What? Wo? Where?

Where ... from? Woher?

Wer? Who?

5 - Lieblingssachen

Mein Lieblingssport ist ...

Mein Lieblingsmonat ist ...

Meine Lieblingsmusikist ... Meine Lieblingszahl ist ...

Meine Lieblingssendung ist ...

Meine Lieblingsfußballmannschaft ist ... My favourite football team is...

Mein Lieblingsspiel ist ...

Mein Lieblingsland ist ...

Mein Lieblingsauto ist ... Was ist dein Lieblingssport?

Was ist deine Lieblingszahl? Was ist dein Lieblingsland? Favourite things

My favourite sport is ..

My favourite month is ... My favourite music is ...

My favourite number is ...

My favourite programme is ...

My favourite game is ... My favourite country is ...

My favourite car is ...

What's your favourite sport?

What's your favourite number? What's your favourite country?

Key Vocabulary!

und and (und) auch (and) also

aber but sehr very ziemlich quite nicht not

What do you think? Was denkst du?

Ich denke, ... I think ... Ich auch! Me too! Ich nicht! Not me!

Was? Du spinnst! What? You're joking!

Germa

Year 8 Half-Term 1 German Knowledge Organiser

Unit 1: "Ich" - Key Questions and Answers

Wie geht's? – How's it going?

Mir geht's...

It's going...

...prima/super/fantastisch/toll

...gut

...ok/nicht schlecht

...nicht so gut ...schlecht

great well

okay/not bad not so good

bad

Wie heißt du? – What are you called?

Ich heiße... [Name].
I am called... [name].

Und du?

And you?

Wie alt bist du? – How old are you?

Ich bin ...
I am ...

11 = elf 12 = zwölf Jahre alt. years old.

Wo wohnst du? – Where do you live?

Ich wohne in ...
I live in ...

Geburtstag.

Januar

Februar

März

April

Mai

Juni

Juli

August

October

September

November

Dezember

... England
... Manchester

... Warrington

... Lymm

Wann hast du Geburtstag? – When is your birthday?

Ich habe am ... My birthday is on the ... 1. = ersten

2. = zweiten3. = dritten

4. = vierten

5. = fünften

6. =sechsten

7. = siebten

8. = achten

9. = neunten

10. = zehnten

11. = elften

12. = zwölften

13. = dreizehnten

14. = vierzehnten

15. = fünfzehnten

16. = sechzehnten

17. = siebzehnten

18. = achtzehnten

19. = neunzehnten

20. = zwanzigsten

21. = einundzwanzigsten

22. = zweiundzwanzigsten23. = dreiundzwanzigsten

24. = vierundzwanzigsten

25. = fünfundzwanzigsten

26. = sechsundzwanzigsten27. = siebenundzwanzigsten

27. = siebenundzwanzigste28. = achtundzwanzigsten

29. = neunundzwanzigsten

30. = dreißigsten

Wie bist du? – What are you like?

Ich bin ...

sehr ziemlich wirklich

nicht

very quite really not

faul lazy freundlich friendly intelligent intelligent kreativ creative launisch moody loud laut lustig funny musikalisch musical

sporty

sportlich

Was ist dein Lieblings...? – What is your favourite...?

Mein Lieblings... ist ...

My favourite ... is ...

Mein Lieblingsauto ist Ferrari. *My favourite car is Ferrari.*

Year 8 Half-Term 2 German Knowledge Organiser

Unit 2: Meine Familie – Key Vocabulary, Phonics, and Grammar

1- Haustiere

Hast du ein Haustier?

Ich habe ...
einen Goldfisch
einen Hamster
einen Hund
ein Kaninchen

eine Katze eine Maus ein Meerschweinchen ein Pferd

eine Schlange einen Wellensittich kein Haustier

Pets

Have you got a pet?

I have ...
a goldfish
a hamster
a dog
a rabbit
a cat
a mouse

a quinea pig

a horse

a snake

a budaie

no pet

My family

Nouns

Nouns are put into three groups in German – masculine, feminine and neuter.



4 - Meine Familie

Es gibt ... Personen in There are ... people in

meiner Familie. my family.
meine Mutter my mother
mein Vater my father
mein Bruder my brother

mein Stiefbruder/Halbbruder my stepbrother/half-brother

meine Schwester my sister

meine Stiefschwester/Halbschwester mystepsister/half-sister

meine Eltern my parents

meine Großeltern my grandparents

Hast du Geschwister? Have you any brothers and sisters?

Ich habe zwei Brüder.

Ich habe drei Schwestern.

Ich bin Einzelkind.

I have two brothers.

I have three sisters.

I am an only child.

Ich habe keine Geschwister. I have no brothers and sisters.

2 - Eigenschaften Qualities

Wie ist er/sie/es? What is he/she/it like?

Er/Sie/Es ist ... He/She/It is ...

dick/schlank fat/thin
frech/niedlich cheeky/cute
gemein/süß mean/sweet

groß/klein big/small

kräftig strong schlau cunning

(super)lustig (really) funny

Er/Sie/Es kann ... He/She/It can ... Italienisch sprechen speak Italian

fliegen fly

Flöte/Fußball/Wii spielen play the flute/football/on the Wii

sing

iump

dance

(schnell) laufen run (fast) lesen read

Rad fahren ride a bike schwimmen swim

schwimmen singen

springen

tanzen

Modal verbs

This kind of verb goes in second place and sends the other verb to the end in the *infinitive*.

e.g.

Ich kann Golf spielen.

3 - Die Zahlen 20-100 Numbers 20-100

zwanzig twenty
dreißig thirty
vierzig forty
fünfzig fifty
sechzig sixty

siebzig seventy
achtzig eighty

neunzig ninety
hundert hundred

einundzwanzig *twenty-one* zweiundzwanzig *twenty-two*

Key Vocabulary!

und and
(und) auch (and) also
aber but
sehr very
ziemlich quite
nicht not

Phonics! sch (shh) Schlange long u (oo) super / gut / Schule short u lustig / Mutter ü fünfzig / fünfzehn i Januar / Juli

Key verb! (This is a modal verb) können to be able to ich kannt I can du kannst you can er kann / sie kann / he can / she can / es kann it can

Year 8 Half-Term 2 German Knowledge Organiser

Unit 2: Meine Familie – Key Questions and Answers

5 - Die Farben Colours black schwarz weiß white grau grey brown braun red rot orange orange gelb yellow grün

blau

indigoblau

violett

lila

rosa

green blue indigo violet purple pink

brightly coloured bunt hellblau/dunkelblau light blue/dark blue



6 - Haare und Augen

Er/Sie hat ... schwarze/braune/blonde/rote Haare kurze/lange/mittellange Haare

blaue/braune/grüne/graue Augen

Hair and eyes

He/She has ...

black/brown/blond/red hair short/long/mid-length hair blue/brown/green/grey eyes Key verbs!

sein to be ch bin I am du bist you are

er ist / sie ist / es ist

haben ch habe du hast

er hat/ sie hat / es hat he has/she has/it has

he is / she is / it is to have I have you have





Beschrieb deine Famile – Describe your family.

In meiner Familie gibt es In my family there are

zwei/ drei/ vier/ fünf/ sechs two/three/four/five/six

Personen. people.

Hast du ein Haustier? – Have you got a pet?

Ja, ich habe ... Yes, I have ...

Nein, ich habe ...

No, I have ...

einen Hund ein Kaninchen eine Katze

kein Haustier. no pet.

a dog a rabbit a cat



Hast du Geschwister? – Do you have siblings?

Ja, ich habe ... Yes, I have ...

Nein, ich habe ... No, I have ...

einen Bruder / zwei Brüder. eine Schwester / zwei Schwestern.

keine Geschwister, Haustier, no siblings



Beschreib dich/deinen Vater/deine Mutter – describe yourself/your father/your mother

Ich bin ... I am ... Sie ist... She is...

Er ist...

groß tall mittelgroß medium heiaht klein small schlank slim dick fat Er ist...

und and intelligent. intelliaent. doof. silly. laut. loud. schüchtern. shy. sportlich. sporty. musikalisch. musical.

Ich habe ... I have ...

Sie hat... She has... Er hat...

Er has...

schwarze black braune brown blonde blond rote red kurze short lange lona

mittellange midlenath

Haare und hair and

blue blaue braune brown grüne areen graue grey

Augen. eyes.

Year 8: Unit 1: Why would a country kill their king?

The actions of James I and Charles I angered parliament, leading to the Civil War. Parliament won due to its New Model Army and executed the king in 1649.		Chronology: what happened on these dates?			Vocabulary	
		James I argues with parliament and dismisses it for seven years.		<u>Absolutist</u>	Someone who rules with absolute power.	
	Charles made Catholic- style changes to the Church, upsetting Puritans	1640	with Charles.		High Church	A Protestant Church with some Catholic practices.
The role of religion		1642	Civil War begins.		<u>Puritan</u>	A Protestant Church with no Catholic influences.
	and angering the Scots.	1643		alists won the Battle of Roundway Down ists lose the Battle of Naseby and the war	<u>Grand</u> Remonstrance	A list of criticisms of Charles I from parliament.
Charles and parliament	Charles needed money, forcing him to call parliament. They refused and the war began.	ends soon after. Who were these people? What were these events?		Court of Star Chamber	Charles attempted to use what he believed was his God-given right to rule. It became a substitute government, allowing him to rule without parliament.	
Roundheads and	England was divided into Parliamentarians and Royalists, fighting over how the country should be run.	Cha	ırles l	A king who wanted to rule as an absolutist, but was stopped and executed by parliament.	Roundhead	A nickname for the supporters of parliament.
<u>Cavaliers</u>		Williar	<u>n Laud</u>	The Archbishop of Canterbury who introduced 'High Church' reforms.	<u>New Model</u> <u>Army</u>	A new army, set up by the Parliamentarians, to win the war.
Parliament's	Parliament created a New Model Army, which had	<u>Johr</u>	<u> Pym</u>	A leading MP who led a campaign against Charles I in parliament.	<u>Cavalier</u>	A nickname for the supporters of Charles I.
victory	the support and discipline to defeat the Royalists.	Cror	<u>iver</u> nwell	A cavalry officer in the New Model Army. His power grew due to his success in the war.	<u>Short</u> <u>Parliament</u>	Charles recalled parliament after 11 years but dissolved parliament after 3 weeks.
The trial and execution of	The king was imprisoned, put on trial and executed by leading Parliamentarians.	<u>Bo</u> Rebo	Prayer ook ellion 337)	A rebellion in Scotland caused by the introduction of the new prayer book.	<u>Long</u> <u>Parliament</u>	Charles was forced to recall parliament again for help in war with Scotland.
the king			<u>rietta</u> aria	Charles married a catholic French Princess in 1625, people feared her influence over the king.	<u>Ship tax</u>	A tax usually used in war time paid by those on the coast for protection.
England becomes a 'Republic'	Cromwell became the 'Lord Protector' and enforced Puritan rule. For the next 11 years, and for the only time in its history, England was a Republic.	Cho	al of Irles I 349)	A trial held by Parliamentarians, which led to the king's execution. Charles was accused of treason.	<u>Arsenal</u>	A collection/store of weapons.

	Why did the Civil War break out?		Why did Parliament win the Civil War?
The role of religion - the rise of the Puritans in the 17th century Charles's religious	The Reformation had made the Church of England (Protestantism) the official religion. Puritans thought the Church of England was still too Catholic. They believed	The Battle of Naseby (14th June 1645)	The Royalists began well when the cavalry, successfully charged at the Roundheads. However, their mistake was to charge for the Roundhead's baggage train which contained their supplies and treasure. Meanwhile, the Royalist cavalry attacked but Cromwell's highly trained and well-disciplined army stood their ground. Cromwell seized his chance and launched an attack on the Royalist infantry. The panicked Royalists collapsed and surrendered. 1000 Royalist soldiers were killed and 4500 taken prisoner. Charles's army was almost entirely
views	This new prayer book angered Puritans as it contained some catholic ideas. Charles had 3 Puritans mutilated (had their ears cut off) in public for criticising the reforms.		destroyed. Parliamentarians gave Oliver Cromwell the job of training a new set of troops. This was England's first professional
Charles's relationship with parliament	In 1629 Charles argued with parliament about his religious views and dismissed them, ruling without them for 11 years known as 'The Personal Rule'. Charles expanded 'ship tax' in peacetime to raise money without asking Parliament's permission. Anyone who refused to pay were imprisoned. Many MPs were furious. Irish Rebellion: In 1641, Irish Catholics rose up against English rule after the Reformation had forced them to become protestants. Charles wanted to recall parliament to ask for money to send an army to Ireland. Parliament refused and passed 'the Grand Remonstrance'.	The New Model Army The Ne	
Tensions with	Charles tried to introduce the new English prayer book into Scotland, leading to war. Charles's army was defeated by the Scots. The Short Parliament: Charles recalled parliament after 11 years to pay for the war with Scotland. MP John Pym criticized Charles in a 2 hour long		the infantry. Leadership: Lord Fairfax and Oliver Cromwell trained and led the NMA to decisive battles e.g Naseby and Newbury. Weapons: Parliament controlled the royal arsenal and the navy so Charles had to import weapons. England were not the only country to kill their king. In
Scotland	speech. Furious, Charles dissolved parliament after 3 weeks. When the <u>situation worsened with Scotland</u> , <u>he</u> <u>recalled Parliament</u> during the 'Long Parliament'.		1789 King Louis XVI of France was executed due to similar reasons as Charles I. Louis was an absolutist and many wanted to reduce his power. France became so
The outbreak of war	Charles ordered the MPs responsible for the Grand Remonstrance be handed over—they refused. Charles arrived at the House of Commons with 300 troops and tried to seize them but they had fled. Charles travelled to Nottingham and raised his royal standard to start the Civil War.	1789-94 The French Revolution	short of money they needed to agree to new taxes . Both Louis and Charles had unpopular wives contributing to their downfall. Both countries became republics following the executions. There were some differences: religion impacted the executions in different ways and the English Civil War and French Revolution had different long-term causes and consequences .

Who were important individuals at this time?

Edward Jenner	Edward Jenner was the first doctor to vaccinate people against smallpox; he was responsible for developing the world's first vaccine.
John Snow	John Snow was an English physician and a leader in the development of anaesthesia and medical hygiene. He made the link between contaminated water and the spread of cholera.
Robert Owen	Robert Owen was a factory owner and prominent socialist who attempted to create ideal communities to benefit workers and eliminate poverty.

The Industrial Revolution – Timeline

Year 8: Unit 2: The Industrial Revolution

Year	Event	
1712	Thomas Newcomen designs the first steam engine	
1750	Britain is mainly an agricultural nation, with 80% of the population living in the countryside	
Mid-1750s	New inventions make it possible for more work to be completed quicker, meaning goods are produced more quickly and faster	
1764	James Hargreaves invents the ' Spinning Jenny ' that can spin eight pieces of thread at once	
1769	Richard Arkwright invents a machine that can spin several strands of thread at one time, using water	
1775	Arkwright opens Cromford Mill, with 800 employees	
James Watt improves and develops Newcomen's steam engine, allowing low wheels to be spun without the need for human labour		
1779 Samuel Crompton invents a new spinning frame		
A steam engine is combined with Crompton's spinning frame to development of the machine that produces cotton more quickly		
1800 Britain has 900 cotton mills		
1800 15 million tonnes of coal produced by Britain		
1804	Richard Trevithick builds the first functioning steam train which travels at less than three miles per hour	
1820s	Britain dominates the cotton trade and 62% of produce they export is cotton	
1829 George Stephenson develops a faster and more effective steam train		
1840s 20,000 children work in coal mines; the government begin to take measimprove the lives of children working within the mines (i.e. Mines Act 184		
1851	Manchester's population is 303,000	
1900 Around 80% of Britain's population now live in urban areas		

Why did the population rise during the Industrial Revolution?

Births went up because:

- There were more trained midwives to look after pregnant women and newborn babies.
- · People were eating a more varied diet.
- People were marrying younger so had more time to have children.
- Children could work in the factories and bring in a wage.

Deaths went down because:

- Soap became less expensive so people could wash themselves and their clothes.
- Alcohol became more expensive so people drank less.
- Antiseptics and anaesthetics were used by doctors to prevent people dying during operations.
- More people could read so we able to learn about staying healthy.
- Cotton fabric was used more than wool fabric which was easier to wash and dry.
- Vaccinations were discovered by Edward Jenner in 1796.
- Councils started to make improvements to peoples living conditions.

KEY INFORMATION – What was it like to work in a factory?			KEY INFORMATION – What were living condition like?		
Working hours	Normal shifts were usually 12-14 hours a day, with extra time required during busy periods. Workers were often required to clean their machines during their mealtimes.	Pollution	Coal was used to heat houses, cook food and heat water to produce steam to power machines in factories. The burning of coal created smoke, which led to terrible pollution in the cities		
Low wages	A typical wage for male workers was about 15 shillings (75p) a week, but women and children were paid much less, with women earning seven shillings (35p) and children three shillings (15p). For this reason, employers preferred to employ women and children. Many men were sacked when they reached adulthood; then they had to be supported by their	Overcrow ding	Due to large numbers of people moving to the cities, there were not enough houses for all these people to live in. Low wages and high rents caused families to live in as small a space as possible. Sometimes whole families lived in one room.		
wives and children. There was frequent "strapping" (hitting with a leather strap). Other punishments included hanging iron weights around		Disease	Typhus, typhoid, tuberculosis and cholera all existed in the cities of England. Cholera reached England for the first time in 1830, and there were further major epidemics in 1832 and 1848. Overcrowding, housing of a low standard and poor quality water supplies all helped spread disease		
Poor treatment of workers	children's necksand dowsing them in water butts to keep them awake. Fierce systems of fines: these were imposed for talking or whistling, leaving the room without permission, or having a little dirt on a machine. It was claimed that employers altered the time on the clocks to make their workers late so that they could fine them. Some employers demanded that their overseers raise a minimum amount each week from fines.	Sanitation	Gutters were filled with litter and the streets were covered in horse manure, collected by boys to sell to farmers. Human waste was discharged directly into the sewers, which flowed straight into rivers. In London, Parliament had to stop work because the smell from the Thames became too much. Lack of		
	Factory owners forced children to crawl into dangerous, unguarded machinery led to many accidents. Workers limbs could get trapped in machinery or children could be crushed against by the moving parts of the machinery. Up to 40 per cent of accident cases at Manchester Infirmary in 1833 were factory accidents. Cotton thread had to be spun in damp, warm conditions. Going straight out into the cold night air led to many cases of pneumonia. The air was full of dust, which led to chest and lung diseases and loud noise made by machines damaged workers' hearing.		fresh water: people could get water from a variety of places, such as streams, wells and stand pipes, but this water was often polluted by human waste		
workers			Houses were built very close together so there was little light or fresh air inside them. They did not have running water and people found it difficult to keep clean. Houses often suffered from damp due to their thin walls and roofs made out of cheap materials. Many households had to share a single outside toilet that was little more than a hole in the ground.		

Computing

Staying Safe Online

	Key vocabulary	Definition	
1	E-safety	Internet safety or online safety is trying to be safe on the internet	
2	Cyber bullying	Is the use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.	
3	Animated banner	Banner that moves between text and pictures.	
4	Social networking	Social networking is the use of internet-based social media programs to make connections with friends, family, classmates, customers and clients.	
5	Annotate	Label the diagram or print screens saying what each part is and why you have chose that design.	
6	Visualisation diagram	Diagram/plan of the product you are designing.	
7	Biased	Holding an opinion that often unfairly supports one argument, eg a football fan thinking that a referee's decision was wrong because it went against their team.	
8	Mobile applications	Applications designed to run on mobile devices. These can be used for creating documents, taking pictures, listening to music, playing games or finding directions	
9	Unauthorised access	Using a computer system without permission.	
10	File	An object on a computer that stores data, information, settings, or commands used with a computer program.	
11	Folder	A way to organise computer files. A folder is a storage space that many files can be placed into to group them together and organise the computer.	
12	Email	Electronic mail - a method of exchanging messages between people using electronics and email addresses.	
13	Security	Protecting yourself when using something that could be harmful or dangerous to you.	
14	Report	A written account or an alert of an event or situation that can be used to seek help.	
15	Child line	A 24 hour counselling service for children and young people where they can get help and advice on a range of issues	
16	CEOP	Child exploitation and online protection centre.	
17	Downloading	Transferring data from one device or network to another.	
18	Internet	A communications system that connects computers and databases all around the world.	

Cyber bullying means to try to hurt someone's feelings by using technology: the internet, email, chatrooms and texting.

Dealing with bullying:

- Don't give out personal information in chatrooms, social websites, blogs, etc.
- Don't tell anyone, even your best friends, your passwords.
 They might be your best friend now, but what if you have an argument. They might log into your account and post really mean things and make it look like it was you.
- Don't' respond If you receive any mean or threatening messages in the chatroom, text or email, don't ever respond.
 You might be tempted to delete the message but don't. Save it and show an adult - you might need the message to use as evidence against the person who sent it.
- Contact the website If you find mean things have been said about you on a website, for example, Facebook, you can ask to have the comments removed. The same is true if you find out that photographs or videos have been posted without your permission.
- Tell someone
- Don't suffer in silence. If you are being bullied then tell your parents. If you don't feel that you can talk to them then tell a teacher or an adult that you trust. You mustn't keep it to yourself because if you do, the bully has got exactly what they want.







E-safety Rules

- Never give out your password this doesn't matter who asks!
- · Don't give out your contact details
- Don't download any software without permissions!
- Respect people's privacy
- Copying and pasting could be breaking the copyright law make sure you always reference where you got that information from!

Chatrooms: The main reason that your parents and teachers worry about you using chatrooms is because you can't always tell who you are talking to. Most of the time, someone you chat to will be genuine. You can have a conversation with them, have a laugh, tell each other about things and over time build up a real friendship.

But, you do need to be aware that not everyone in a chatroom is really who they say they are.

Saying safe in chatrooms:

- Tell your parents if you are planning to use a chatroom.
- Use a nickname, so your real identity remains protected.
- Never give out personal details!
- Never send your picture to anyone!
- Always stay in the public chatroom
- Don't meet up in real life if you do really want to arrange to meet someone always take a responsible adult.
- This shouldn't be a problem because you won't give anyone your email address, will you? But, if for some reason you did give it out and you find someone is sending you emails with mean or rude pictures, don't open them and tell your parents immediately

Project Life Cycle

1.1 The phases of the project life cycle and the tasks carried out in each phase

The four Phases are;

- ⇒ Initiation
- ⇒ Planning
- ⇒ Execution
- ⇒ Evaluation

There are many advantages of following a project life cycle, for example

- Proves a structured approach
- There are defined inputs and outputs for each phase
- Allows project manager to monitor the progress of the project

1.3 The inputs and outputs of each phase

An advantage of following the project life cycle is that each phase has clearly defined inputs and outputs

- User requirements
- User constraints
- Feasibility Study
- Legislations implications
- Phase Review
- Project Plan
- Test Plan
- Final evaluation report



1.2 The interaction and iteration between the phases of the project life cycle

Each phase of the project life cycle interacts with the phase before and after it.

If a phase is not completed it is not possible to move onto the next phase.

1.4 Initial project considerations

One of the tasks to complete during the initiation phase is to set objectives for the project. The main types of objectives are:

- SMART goals
- User requirements
- Success criteria
- Constrains and limitations
- Mitigation of risk











1.5 Planning tools and the software types used to develop project plans

During the planning phase, the project manager will use planning tools to create documentation to help during the creation of the project.

Planning tools include:

- Gantt Charts
- PERT (Project Evaluation and Review Technique)
- Critical path
- Visualisation diagrams
- Flow Charts
- Mind Maps
- Task lists

Computing

Website Architecture



Computing

Website Architecture

Task	Tag		
Alignment	<pre>your text</pre>		
Background colour	<body bgcolor="blue"></body>		
Background image	<body background="books.jpg"></body>		
Bold	<byyour b="" text<=""></byyour>		
Sullet point list or unordered Sullet point list or unordered Sullet point list Sullet point list			
Centre	<center>your text</center>		
Headings (H1 is the biggest size and H6 is the smallest)	gest size and H6 is <h1> your text</h1>		
Horizontal rule (draws a line across the page to separate sections)	<hr/>		
Hyperlink to another website	BBC website		
Hyperlink to another page in your website	My hobbies page		
 			
Italic	<i>your text</i>		
Line break (new line)	 		
	 Col> 		

Your item 1

Your item 2

your text

<u>your text</u>

your text

Numbered list or ordered list

Paragraph

Underline

Paragraph (left align)

Useful Website

https://www.w3schools.com/html/



Key Vocabulary

	Key Vocabulary	Definition	
1	Tags	A set of characteristics that determine the formatting command on a web page	
2	HTML	Hyper Text Markup Language is the code used to write websites	
3	URL	Uniform Resource Locator is a unique identifier used to locate a resource on the Internet	
4	Web Browser	an application program that provides a way to look at and interact with all the information on the World Wide Web . E.g Chrome, Firefox	
5	Code	the set of instructions, or a system of rules, written in a particular programming language	
6	Notepad ++	a free and open-source text and source code editor for use with Microsoft Windows	
7	Initiation	he first stage of the project lifecycle. The project team is formed in this phase, and a project manager is appointed	
8	Planning	t helps define each phase's tasks, results, and allocated time for the project	
9	Execution	the stage of the project where everything your team has planned is put into action	
10	Evaluation	making an assessment of an ongoing or completed project	
11	Gantt Chart	a graphical representation of activity against time	
12	Success Criteria	the standards by which the project will be judged at the end to decide whether or not it has been successful	
13	SMART Goals	SMART goals stands for Specific, Measurable, Achievable, Relevant, and Time-Bound	

Expand and Simplify:

$$(3x-7)(5x-2)$$

$$= 15x^2 - 6x - 35x + 14$$
$$= 15x^2 - 41x + 14$$

$$(2x+9)^2 = (2x+9)(2x+9)$$

$$= 4x^2 + 18x + 18x + 81$$
$$= 4x^2 + 36x + 81$$

$$(5x+7)(5x-7)$$

$$= 25x^2 - 35x + 35x - 49$$
$$= 25x^2 - 49$$

Above is an example of DOTS (Difference of Two Squares)

$$5x(2x+1)(4x-9)$$

$$=5x(8x^2-18x+4x-9)$$

$$= 5x(8x^2 - 14x - 9)$$
$$= 40x^3 - 70x - 45x$$

Triple Brackets

To expand triple brackets, expand any 2 sets of the brackets, simplify and multiply by the 3rd and simplify again

$$(2x-1)(3x+2)(4x-7)$$

$$= (6x^2 + 4x - 3x - 2)(4x - 7)$$

$$= (6x^2 + x - 2)(4x - 7)$$

$$= 24x^3 - 42x^2 + 4x^2 - 8x - 7x + 14$$

$$= 24x^3 - 38x^2 - 15x + 14$$

Factorise:

$$-10x - 35 = -5(2x + 7)$$

$$4x^2 + \frac{3}{2}x = \frac{1}{2}x(8x + 3)$$

You can also take out negatives and fractions as factors!

8

Core & Extension

Half-Term 1

Factorising Quadratic Expressions

$$x^2 - x - 72$$
$$x^2 - 1x - 72$$

We require 2 numbers that add to make the coefficient of x (-1) and multiply to make the constant term (-72). The two numbers are -9 and 8. We then factorise the quadratic:

$$(x-9)(x+8)$$

$$x^2 - 25$$
$$x^2 + 0x - 25$$

We require 2 numbers that add to make the coefficient of x (0) and multiply to make the constant term (-25). The two numbers are +5 and -5. We then factorise the

quadratic:
$$\frac{(x+5)(x-5)}{(x+5)(x-5)}$$

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:

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

Simple Interest:

£2000 is paid into an account that pays 5% simple interest per annum (pa). The amount in the account after 3 years is:

$$£2000 + (2000 \times 0.05 \times 3) = £2300$$

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:

$$162400 \div 1.16 = £140,000$$

Adding and Subtracting Algebraic Fractions

Look for a common denominator (the easiest way is to multiply the two denominators. Find equivalent fractions and then add/subtract

$$\frac{4}{3a} + \frac{5}{8b} = \frac{32}{24ab} + \frac{15}{24ab} = \frac{37}{24ab}$$

$$\frac{4}{x-2} - \frac{5}{2x+1} = \frac{4(2x+1)}{(x-2)(2x-1)} - \frac{5(x-2)}{(x-2)(2x-1)} = \frac{4(2x+1) - 5(x-2)}{(x-2)(2x-1)} = \frac{3x+14}{(x-2)(2x-1)}$$

$$4x + 5y, 2x - 5, 7x(3x - 7)$$
 etc.

Equation (Has an = and can be SOLVED)

$$4x - 7 = 15,4(3x + 1) = 7$$
 etc.

Identity (True for every value)

$$4(x-2) \equiv 4x - 8 etc.$$

Formula (Can be used to work something out)

$$y = 3x - 1$$
, $Area = \pi r^2$, $V = b^3$ etc.

Inequality (True for a RANGE of values)

$$4x - 1 < 11, 5x + 2 \ge 17 etc.$$

Substitution:

Find the value of 3x + 5y, when x = 6 and y = -1.

$$(3 \times 6) + (5 \times -1)$$

= 18 + 5
= 18 - 5
= 13

If y = 6x - 13, find the value of y when x = 1.5.

$$y = (6 \times 1.5) - 13$$
$$y = 9 - 13$$

$$y = -4$$

Cube Numbers

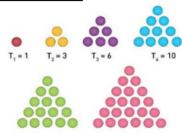
$$91^3 = 1 \times 1 \times 1 = 1$$

$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

$$4^3 = 4 \times 4 \times 4 = 64$$

Triangular Numbers



Reciprocal:

To find the Reciprocal of a number, you simply need to "flip" it

Reciprocal of
$$2 = \frac{1}{2}$$

Reciprocal of
$$\frac{3}{5} = \frac{5}{3}$$

Reciprocal of
$$\frac{1}{4} = 4$$

Expanding Brackets:

$$3(2x-7) = 6x-42$$

$$4x(5x + 7y - 3z^2) = 20x^2 + 28xy - 12xz^2$$

Writing and Simplifying Expressions

John is x years old. Tom is 4 years older than John. Adam is 5 years younger than John and Carl is 3 times as old as Tom. The sum of their ages is:

$$x + x + 4 + x - 5 + 3(x + 4)$$

$$= x + x + 4 + x - 5 + 3x + 12 = 6x + 11$$

Factorising:

Remember to check your answers by
$$x^2 - 40x = x(x - 40)$$
 expanding the brackets!

Adding and Subtracting Mixed Numbers

$$2\frac{2}{3} + 3\frac{1}{7} = \frac{8}{3} + \frac{22}{7}$$

1.) Write both fractions as improper

$$= \frac{56}{21} + \frac{66}{21} = \frac{122}{21} = 5\frac{17}{21}$$
 improper fractions fractions fractions common

$$2\frac{1}{5} - 1\frac{3}{4} = \frac{11}{5} - \frac{7}{4}$$

common denominator

$$= \frac{44}{20} - \frac{35}{20} = \frac{9}{20}$$
3.) Write equival fraction

equivalent fractions

the numerators

4.) Add/Subtract

Multiplying and Dividing Mixed Numbers

$$2\frac{2}{3} \times 3\frac{1}{7} = \frac{8}{3} \times \frac{22}{7} = \frac{176}{21} = 8\frac{8}{21}$$

Multiply the Numerators and Denominators together!

$$2\frac{1}{5} \div 1\frac{3}{4} = \frac{11}{5} \div \frac{7}{4} = \frac{11}{5} \times \frac{4}{7} = \frac{44}{35} = 1\frac{9}{35}$$

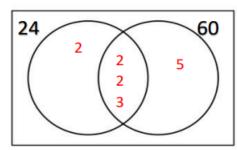
To divide, use KFC (Keep First, Flip Second and Change to a x)

Core & Support

Half-Term 1

Prime Factor Decomposition

$$24 = 2^3 \times 3$$
 and $60 = 2^2 \times 3 \times 5$



HCF is the product of numbers in the overlapping section

$$HCF = 2 \times 2 \times 3 = 12$$

LCM is the product of ALL numbers

$$LCM = 2 \times 2 \times 2 \times 3 \times 5 = 120$$

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	$15 \times 37 = 555$
$20 < h \le 30$	26	25	$25 \times 26 = 650$
$30 < h \le 40$	22	35	$35 \times 22 = 770$
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 $20 < h \le 30$ category!

Upper and Lower Bounds:

15 (Nearest Integer)

Lower Bound = 14.5

Upper Bound = 15.5

 $14.5 \le 15 < 15.5$ (This is known as the Error Interval)

20.9 (3sf)

LB = 20.85 and UB = 20.95

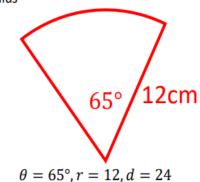
 $20.85 \leq 20.9 < 20.95$ (This is the Error Interval)

Sectors:

$$Arc\ Length = \frac{\theta}{360} \times \pi d$$

Area of a Sector = $\frac{\theta}{360} \times \pi r^2$

Where: θ is the angle and r is the radius



$$Arc \ Length = \frac{\theta}{360} \times \pi d$$
$$Arc \ Length = \frac{65}{360} \times \pi \times 24$$

$$360$$
Arc Length = $13.6cm(1dp)$

Area of Sector =
$$\frac{\theta}{360} \times \pi r^2$$

Area of Sector = $\frac{65}{360} \times \pi \times 12^2$
Area of Sector = $81.7cm^2(1dp)$

Bearings:

- 3 Figures
- Measure from North (000°)
- Measure Clockwise

Co-Interior Angles add up to 180°. The angle here is 123°

North

67°

B

The bearing of B from A is 067° . The bearing of A from B is 247°

Applying Upper and Lower Bounds:

A square has side 4.2cm correct to 1dp.

The Maximum Perimeter is given by: $4.25 \times 4 = 9cm$

The Minimum Area is given by: $4.15 \times 4.15 = 17.2225cm^2$

8
Core & Extension
Half-term 2

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 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

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 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 Decrease with a Calculator:

Decrease £48 by 13%

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

 $67\% \times £48 = £41.76$

Percentage Increase with a Calculator:

Increase £48 by 13%

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

 $113\% \times £48 = £54.24$

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

Dividing by a Decimal:

Make the number we are dividing by an INTEGER

$$\times 100$$
 $0.246 \div 0.02$
 $24.6 \div 2$
 12.3
 2
 24.6

$$\times 10$$

1.738 ÷ 0.5

17.38 ÷ 5

3.476

5 17.380

Remember that if you divide by a number between 0 and 1 your answer will be bigger!

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)

Areas of 2D Shapes:

Rectangle = $base \times perpendicular \ height$

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

 $Parallelogram = \frac{base \times perpendicuctar \ height}{2}$

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

Circles

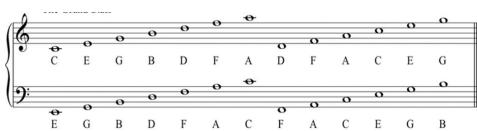
 $Area = \pi r^2$ $Circumference = \pi d$

Core & Support
Half-term 2

HT1&2 – Harmony

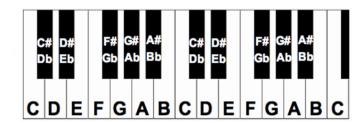


Treble and Bass clef notation

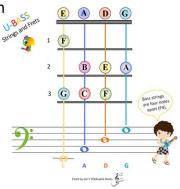


Piano keyboard diagram

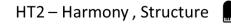
C is to the left of the 2 black keys



Bass Guitar Fret Board Diagram

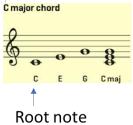


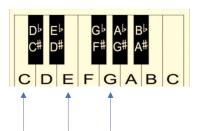
Y8 Music HT1 & 2 – Harmony, Structure



Chords

The C major triad





Use the simple formula of

play the root note, miss one, play note, miss one, play note

12 Bar Blues Structure

С	С	С	С
F	F	С	С
G	F	С	G

This structure repeats all the way through the Blues track

Why does evil exist?

Religion, Philosophy & Ethics

Key Terms	Definition
Moral Evil	Suffering caused by mankind e.g. murder.
Natural Evil	Suffering caused by nature is e.g. suffering caused by earthquakes.
The Problem of Evil	The idea that if God existed then there would be no evil in the world. God's characteristics do not fit with a world with evil in it.
Evidential Problem of Evil	Hume's argument that the evidence of evil in the world is so great that it cannot be explained away, it proves God does not exist.
Inconsistent Triad	The argument which shows God, cannot be both omnipotent (all-powerful) and omnibenevolent (all-loving) while evil exists – this undermines God's existence.
Free Will	The power of acting freely without force.
Theodicy	An explanation for why God would allow evil in the world.

Quotes

'God is omnipotent: God is wholly good, and yet evil exists. There must be some contradiction between these three propositions' John Mackie (Atheist)

"the world is seen, instead, as a place of soul making" John Hick (Christian)

"Why should I respect a capricious... God that creates a world that is so full of injustice and pain?" Stephen Fry (Humanist)

A wise man proportions his belief to the evidence' David Hume (Atheist)

> Hume (1711 – 1776)





Evil exists

The problem of evil is demonstrated by the inconsistent triad.

It is inconsistent
to believe in an
all-loving and allpowerful God that
created a world
with evil in it.

The Problem of Evil: John Mackie & Humanists

- **Natural evil is** suffering caused by nature e.g. homes destroyed by an earthquake
- Moral evil is suffering caused by mankind e.g. murder

The problem of evil is the idea that if God existed then there should be no evil in the world. God is meant to be all loving (benevolent) but He created a world and allowed evil to exist. He is meant to be all-powerful, yet He does not stop evil from happening and He is meant to be all-knowing yet he created the world knowing there would be evil and suffering in it.

Mackie agreed with the inconsistent triad and went on to suggest God cannot exist because...

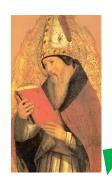
- We don't need evil to appreciate good as good and evil are not truly opposite. Even if we did we don't need as much suffering as we have in the world.
- The purpose of suffering cannot be to help us become better people because God could make us perfect if he wanted to

Humanists do not believe in God but place great importance on human life, when considering evil and suffering, they do not believe it is a punishment or a test because they do not believe in God. Evil is caused by humans and nature along.

David Hume (Scottish philosopher from 18th **Century)** was an atheist. He believed that if God was all powerful, all knowing and all loving then there wouldn't be evil in the world therefore either God doesn't exist or He isn't worthy of worship – this he called the 'inconsistent triad'. He criticised the nature of God in two arguments...

- Evidential Existence: Hume uses the analogy of a falling down house to show how religious people react to the flaws in the world. Leaking roof that's to stop fires! No door that's to let in fresh air! Religious people do the same, they see the vast amount of evil in the world and try to explain it away it doesn't make sense, the amount of evidence for evil outweighs the 'excuses.
- Prior Probability: Hume asks the question 'If a stranger came to our planet would they think it was a good design?' he suggests that as per prior probability if a stranger came to our world they would easily conclude that the world is a poor design – therefore questioning the power and nature of God

- **Evil and suffering may be a test from God.** The Bible gives examples of when people are tested such as the story of Job whose faith was tested by God. God it therefore to blame for evil but with the purpose of seeing who deserves to go to heaven.
- **Evil is the result of freewill.** God created mankind with freewill allowing for moral evil. Natural evil is a punishment or the natural 'going wrong' of the world as a response to the misuse of freewill. Humans, not God, are to blame for evil.
- **Evil is necessary to grow our souls.** God created evil so we can learn from suffering and become better people. For example, we need to experience fear to develop courage. God is the cause of evil but for a good reason and there will be no evil or suffering in the afterlife.
- We do not know why there is evil or suffering in the world but we should trust that God, being all-loving and all-powerful would stop it if there wasn't a good reason.



Augustine of Hippo (354-430)

Criticism - if our actions are predetermined by a God, then humans cannot be held responsible for their actions. Similarly, if God knows humans cause suffering and doesn't stop it He cannot be all-loving.

Free Will Theodicy

The 'free will defense' is the idea that God is not the cause of evil and suffering but it is the result of human freewill.

Christianity

- St Augustine, 5th century Christian philosopher, believed that humans have been given complete free will as a gift from God and it is such freewill that leads to suffering. Because the Bible says everything God created is "good" and because God is wholly good, God could not create evil. Evil is a privation (a lack of) good when mankind steps away from God.
- Augustine went on to explain that natural evil is caused by humans too; Adam and Eve were told not to eat the apple but they did and this first (original) sin means humans rejected God and cannot live in the Garden of Eden so live in an world they have corrupted with sin.

Islam

 Consequences of the misuse of freewill include being judged by God and spending eternity in hell. However evil and suffering can help prepare us for the afterlife and enable us to become better people, according to Christianity.

Soul Making Theodicy

St Irenaeus argued that evil exists due to the deliberate action of God who wanted his creation to develop the qualities that would make them spiritually perfect.

He pointed out that the Bible (Genesis 1) says God created the world and "it was good"; he suggests that the quote God created the world with room for improvement. We can learn from evil and suffering to become better "children of God".

John Hick, a more recent philosopher, supported this idea when he stated "the world is seen, instead, as a place of soul making". By experiencing suffering and overcoming it, keeping our faith and learning from it we can become children of God.



St Irenaeus (130 – 202

Amazing

Criticism - this theodicy doesn't explain why some humans suffer more than others.

Independent work

- Create flash cards for the key terms
- Create a knowledge poster summarising the topic; what the problem of evil is and different views on it
- Answer these questions in fully explained sentences. Imagine they are exam questions, write in as much detail as you can
- A. What is moral and natural evil?
- B. How does evil disprove the existence of God?
- C. How do religious people, like Christians, explain why there is evil in the world?
- D. Do you think evil is proof God doesn't exist?

TIF: Turn your above answers into PEE answers

51

What does justice look like? Religion, Philosophy & Ethics

fair and right

or offence

Key Terms

Justice

Capital

Less

Economically

Developed

Country

Punishment

Definition

is the upholding of what is

the death penalty for a crime

charity. This is the second

are countries where people

are paid a low-income and

or infrastructure wealthier

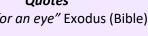
don't have the opportunities

pillar of Islam

countries have

Quotes

"An eye for an eye" Exodus (Bible)



"Forgive seventy times seven" Mathew 18 (Bible)

"whoever believes in Allah and the last day should not hurt his neighbor" (Qur'an)

"I believe in justice and truth, without which there would be no basis for human hope" 14th Dalai Lama (Buddhist)

Wealth and Poverty

Causes of poverty are more common is less economically developed countries (LEDCs = countries where people are paid a low-income and don't have the opportunities we do). 9.2% of the world (almost 700 million people) live in extreme poverty, on less than £1.50 a day, without enough to eat. 1 in 3 people in the world don't have access to safe drinking water.

Causes of poverty

Wars – common in LEDCs & they destroy crops, hospitals, homes & schools leading to poverty Unfair trade – people not paid enough in poorer countries so rich countries make all the profits Illness – common in LEDCs, people too ill to work so no money to live off or get healthcare Lack of Education – in LEDCs fewer children are educated so

less chance of getting out of poverty

CAFOD Just one world Religious charities such as CAFOD (Catholic Agency for Overseas Development) are trying to reduce poverty through... **Long-term plans** to help people become self-supporting e.g., CAFOD has set up a scheme in Brazil to help homeless children get an education & skills to earn a living. Disaster & Emergency aid includes sending food, water, shelter & medicine e.g. to refugees fleeing Ukraine Raising Awareness, 5% of CAFOD budget spent on educating

people in Churches & school etc., about ending poverty

Speaking out for people too poor to fight for their rights

Stewardship Stewardship is caring for the environment for future generations.

People can look after the environment by; recycling to reduce waste, using public transport to reduce CO2 emissions that pollute our air, campaign for more renewable energy use (e.g., wind energy) to prevent global warming from worsening. This is important because 50% of all natural disasters between 1970 and 2019 have

been caused by climate change, so

Jews, Muslims and Christians all believe God created the earth and gave it to humans as a gift to look after ("have dominion over the land" as written in Genesis). They believe it is therefore their duty to look after it and doing so is a way of showing love and respect to God as well as their neighbor.

preventing global warming will save lives.

Humanists do not believe in God but believe stewardship is important...

- Quality of life and happiness are important, and we can improve them by protecting our environment
- It makes sense, for the protection of the human race, to preserve our environment and not waste resources
- We may use methods such as population control to stop people having too many babies in a world that already has too many lives destroying the planet

Some atheists may believe it isn't our duty to look after the environment but instead the government and large organisations who do the most damage.

Shari'ah Law Sharia means 'straight path'. This is the law of Islam which sets out a code for how to live. It is based on the Qur'an and Prophet Mohammad's practice (recorded in the Sunnah) Stewardship is caring for the environment for the benefit of future generations **Quality of** is the standard of health, Life comfort and happiness a person has Zakat is the Islamic (Muslim) duty to give a minimum of 2.5% of their wealth each year, to



Why is justice important to Buddhists?

- Buddhist believe in karma which means their actions impact if their future life or lives will be happy or full of suffering.
- Buddhists believe that we should be compassionate and help someone reform their life when they have misused their freewill and causes dukkha (suffering).



Why is justice important to Humanists?

Humanists do not believe in God, judgement or karma. However, the UK Humanist Association believes we can find happiness in this life by helping others do the same – one way to do this is base our decisions on empathy and to seek justice for all.

Why is justice important in Islam?

- The Qur'an says, "be persistently standing firm in justice" Surah 4
- Muslims believe they will be judged in the afterlife based on their actions as it is written in the Qur'an.

Why is justice important to Christians?

- The Bible says "hold fast to love and justice" Hosea 12
- Christians believe they will have eternal judgement based on their actions (Parable of the Rich Man & Lazarus).

Death Penalty (Capital Punishment)

Abolished in the UK in 1970 but still happens across the world.

Arguments for the death penalty

Christian view...

The Old Testament Bible states "an eye for an eye"

Muslim view...

- The Qur'an states that, if clearly proven, then the DP can be used to punish murder, adultery and apostasy (someone working against Islam).
- Muhammed himself sentenced people to death.

Secular (non-religious) view...

- DP may be a deterrent to prevent serious crimes
- Murderers are a threat to society

Arguments against death penalty Christian view...

 Instead of "an eye for an eye" Jesus said, "turn the other cheek" and "forgive 70x7"

Muslim view...

- Prophet Muhammed said, "whoever believes in Allah and the last day should not hurt his neighbor" (Qur'an)

Secular (non-religious) view...

- Countries without DP have lower murder rates
- DP can't be reversed, what if judge was wrong
- Executed terrorists become martyrs inspiring others to do the same

Law & Punishment

In the UK, law is made by parliament and crimes are judged in courts of law. Punishments are given to those who fail to follow the law. Although the UK laws were once based on Christian teachings, parliament doesn't base decisions on religion anymore.

However, in other countries laws and punishments may be based on religious instructions.

In Islamic countries punishments are based on Shari'ah Law (from the Qur'an). These laws are often considered too strict by modern standards e.g., the punishment for stealing is having one's hand cut off.

Aims of Punishment

Punishments are important for; keeping peace in society, preventing crimes and giving offenders a chance to change their behaviour and make up for their crimes.

The intention behind the punishment is it's aim....

- Retribution is often considered as revenge based on the belief that those who have caused suffering should suffer. It is when a punishment is in proportion to the crime e.g., "an eye for an eye" Exodus
- Deterrence is a punishment that puts people of future crimes. For example, Shari'ah Law regarding stealing is to have your hand cut off, this is disproportionate to the crime and will deter it from happening.
- **Reform** involves educating criminals, so they don't want to or have to turn to crime again. Many religious people believe this is the most loving form of punishment and thus should be given.

Independent work

- Create flash cards for the key terms
- Create a knowledge poster summarising the topic; what justice is, why
 justice is important in two religions, different types of punishment and
 which you think is just, arguments for and against the death penalty
- Answer these questions in fully explained sentences. Imagine they are exam questions, write in as much detail as you can
 - A. Can you be wealthy and be a 'good person'?
 - B. Is stewardship important? Why?
 - C. What does it mean to be 'just' in different religions?
 - D. What is the best aim of punishments?
 - E. Should we have the death penalty in the UK?

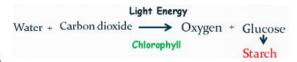
TIF: Turn your above answers into PEE answers



Science

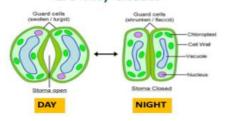
Photosynthesis

- It's a chemical process plants & algae use to make their own food (glucose)
- Photosynthesis takes place in the CHLOROPLASTS of plant cells.
- Light energy is absorbed by a green pigment called CHLOROPHYLL.



- · A leaf is broad and flat to capture lots of sunlight.
- Veins carry water to the leaf and take food from the leaf to the rest of the plant.
- Certain plant cells contain chloroplasts filled with chlorophyll.
- Small holes called stomata in the underside of a leaf allow gases in and out.

When are stomata open and when are they closed?



Changes to the body during exercise:

Heart rate increases

Stroke volume increases

Breathing rate increases

Deeper breaths

Sweat

Blood vessels dilate

Why does heart rate increase during exercise;

More blood

More glucose & oxygen to muscles

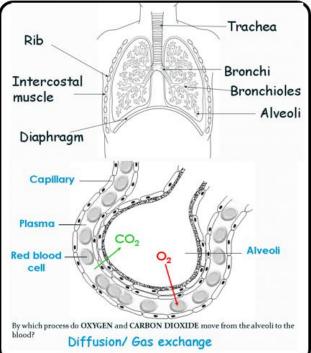
More respiration= more energy

More muscle contraction

More CO2 removed

More lactic acid oxidised

Y8 Bio T1- Bioenergetics



Aerobic respiration is the process of releasing energy. Aerobic respiration happens in the *mitochondria*.

We need it for:

Muscle contraction (moving)

Making molecules (growth)

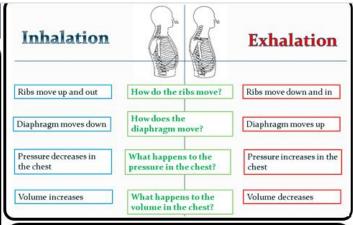
Maintain a warm body temperature

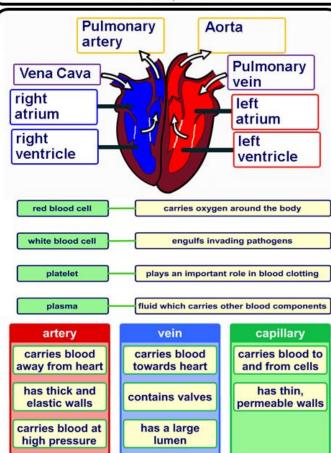
Glucose + Oxygen → Carbon + Water + Energy Dioxide

During exercise, if INSUFFICIENT OXYGEN is reaching the <u>muscles</u> they use anaerobic respiration to obtain energy.

Anaerobic respiration is the INCOMPLETE BREAKDOWN OF GLUCOSE

Glucose \longrightarrow Acid (+ a little energy)





Hazard warning symbols

Bottles in the laboratory and tankers carrying chemicals on the road all have to carry hazard warning labels to show when there is a chemical hazard. Some of the common warning signs are:

(1)	Moderate hazard	Substance is an irritant or is harmful. Not corrosive but will make the skin red or blister. Not as dangerous as toxic.
(3)	Flammable	Catches fire easily.
<u>₹</u>	Corrosive	Attacks and destroys living tissues, such as skin and eyes. Attacks metals.
	Acutely toxic	Can cause death if swallowed, breathed in or absorbed by skin.
	Explosive	Substances that can self-react or detonate easily.

Indicators

Indicators are coloured dyes which often come from plants such as red cabbage and beetroot. They change colours when added to acids and alkalis

Litmus is an indicator which turns red in acids and blue in alkali. **Red cabbage** indicator is red in acids, purple when neutral and green in alkalis.

Most indicators only tell us if a substance is an acid or alkali, they don't tell us how strong or weak they are. Universal indicator is a mixture of dyes that changes colour gradually telling us the level of acidity or alkalinity of a substance. The colours can be linked to the pH scale.

The pH scale

The strengths of acids and alkalis can be measured on the **pH scale**, which runs from 1 to 14. pH numbers 1 to 6 are acids, 7 is neutral, and 8 to 14 are alkalis.

You can find out the pH number using a **universal indicator**, or by using a pH meter.

Y8 Chem T1- Acids and Alkalis

Acids and alkalis

Acids taste sour and are often found in foods, common acids include vinegar and lemon juice. Fizzy drinks, pickles and spicy sauces also contain acids. Stronger acids such as sulphuric and nitric acids can be more dangerous and often they are corrosive.

Alkalis feel soapy. They are often used in cleaning products and can also be corrosive. Weak alkalis include soap and toothpaste.

Naming salts

When acids react with metals or metal compounds they make salts. The name of the salt has two parts. The first part is the name of the metal and the second part comes from the type of acid.

Hydrochloric acid makes a chloride Nitric acid makes a nitrate Sulfuric acid makes a sulfate.

Metal carbonates and acids

A metal carbonate will also neutralise an acid. This time the products are a salt, carbon dioxide and water.

The general equation is:

acid + metal carbonate → salt + carbon dioxide + water

For example:

Sulfuric + copper <u>\$\rightarrow\$ copper + carbon + water</u>
acid carbonate sulfate dioxide

We can test for carbon dioxide using limewater. Limewater goes milky if carbon dioxide is bubbled through it.

Neutralisation

Metal oxides and hydroxides are referred to as **bases**. A <u>soluble base</u> (usually a metal hydroxide) is called an <u>alkali</u>.

Bases can cancel out acids, making them **neutral**. A base reacts with an acid to form water and a salt. This reaction is called **neutralisation**.

Acid + base → salt + water

For example:

hydrochloric acid + potassium hydroxide \Rightarrow potassium chloride + water

sulfuric acid + copper oxide → copper sulfate + water

We can check to see if neutralisation has occurred using universal indicator. The pH of the solution gets closer to neutral (pH7).

Metals and acids

Many metals react with acids. Some unreactive metals will only react very slowly with strong acids, some will not react at all. Some metals are more reactive and explode when added to acid.

When a metal reacts with an acid, hydrogen gas is given off. The reaction also

produces a compound called a salt.

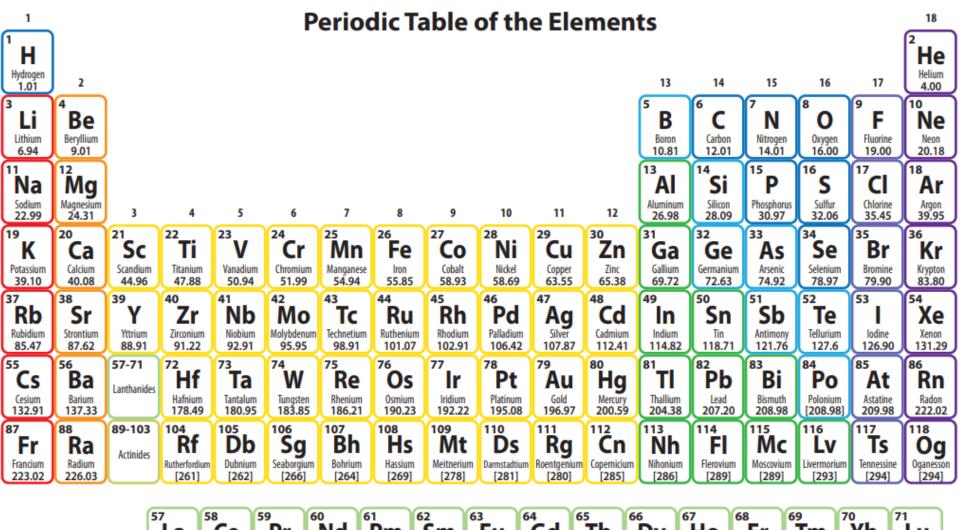
<u>metal +</u> acid → salt + hydrogen

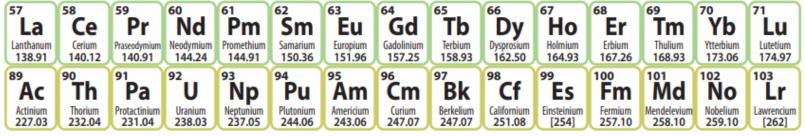
For example:

hydrochloric acid + zinc → zinc chloride + hydrogen

We can test for hydrogen by putting a burning splint into a test tube of gas. If hydrogen is present, it will explode with a squeaky 'pop'.

1 2 3		4 5 6		7	8	9 10		11 12 13 14						
Strong acid			Weak acid			Neutral		Weak alkali		Strong alkali				
red			OI	range / yello	w	green		green - blue	1	purple				





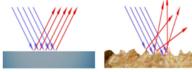
Alkaline Earth Alkali Metal Transition Metal Basic Metal Metalloid Halogen Nonmetal Noble Gas Lanthanide Actinide

56

Waves can behave in different ways. Two common wave behaviours are reflection and refraction.

Waves will reflect off surfaces. If a sound wave reflects off a surface, we hear an echo.

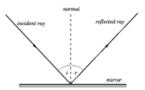
We are only able to see non-luminous objects because light reflects off them. Light reflects very uniformly off flat, shiny surfaces (specular reflection). Dull, uneven surfaces reflect the light more unevenly (diffuse reflection).



Specular Reflection Diffuse Reflection

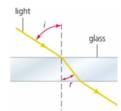
When light reflects off a surface, the angle of incidence is always equal to the angle of reflection.

This is called the law of reflection.



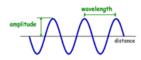
The angles of incidence and reflection are measured from the normal line. This is an imaginary line at 90° to the surface.

Refraction is the way in which light slows down and changes direction as it passes from the air in to a denser substance such as glass. When it goes from air in to glass, it changes direction towards the normal line.



When the light emerges out the other side of the glass, it speeds up and changes direction back away from the normal.

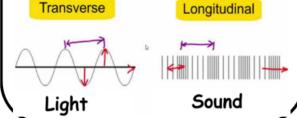
Y8 Phys T1- Light & sound



A wave can be described in terms of its wavelength and its amplitude. The wavelength is often measured as the distance between two peaks. The frequency of the wave refers to how many waves pass a point per second. The amplitude is the height of the wave.

Waves can exist either as transverse waves or as longitudinal waves. Transverse waves oscillate at 90° to the direction of travel. Longitudinal waves oscillate in the same direction as the direction of travel.

Light travels as a transverse wave, sound travels as a longitudinal wave.



Colour filters work by only allowing certain colours of light to pass through them. Green filters only let green light through, red filters only red light etc.



Secondary colours (magenta, yellow and cyan) are made up from two colours. If magenta light is shone on to a red filter, the blue component of magenta is absorbed and red light is transmitted through. Sound waves occur when there is a disturbance in a solid, liquid or a gas. Sound can not travel through space because it requires particles to travel through.

When a sound is made, the particles bunch up and spread out (called compressions and rarefactions).

A sound can be described in terms of its loudness or its pitch.

The greater the amplitude of the sound wave, the louder it is.

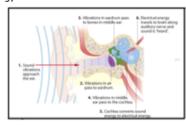
The higher the frequency of the sound wave, the higher is its pitch.



These two sound waves, for example, have the same pitch (because their wavelength/frequency is the same). However, the second wave is louder because its amplitude is greater.

Very high pitches (greater than 20,000Hz) are called ultrasound waves. Pitches less than 20Hz are called infrasound waves.

When sound waves enter the ear, they cause the ear drum to vibrate. These vibrations pass to bones in the middle ear and cause them to vibrate also. The bones in the middle ear are connected to the cochlea which vibrates in turn and converts sound energy in to electrical energy.



The electrical energy passes along the auditory nerve to the brain and the brain interprets this as a sound. As people get older, the bones in the middle ear begin to fuse. This means that louder sounds are needed to make them vibrate and explains why people struggle with hearing as they get older. Hearing aids can help people who have hearing problems by amplifying sounds and retransmitting them. Some hearing aids bypass the auditory canal and retransmitting them.

Science

High Frequency words and Phrases

Hay un/aunos/as	There is /are/some
No hay ningún/a	There aren't any
¿Tienes ?	Do you have?
Tengo un/aunos /as	I have un/aunos/as
No tengo ningún/a	I don't have any
Es	It is
No es	It isn't
Me gusta + noun	I like + noun
No me gusta + noun	No me gusta + noun
Me gusta + infinitive	I like + infinitive
No me gusta + inf	I don't like + inf.
Soy	l am
No soy	I am not
Es	He/She is
No es	He/She is not
Voy a	I am going / I go to
No voy a	I am not going / I don't g to

Qualifiers:		
Bastante	quite	
Muy	very	
Demasiado	too	шш
Un poco	a little	
Completamente	completely	
Realmente	really	

	2
also	$\langle \rangle$
and	5
or	
Where?	
with	
but	
however	
especially	
because	
why?	
if	
although	
no/not	
	and or Where? with but however especially because why? if although

Prepositions:						
Α	to					
Con	with					
De	from					
Desde	since					
Hasta	until					
Sin	without					

nothing

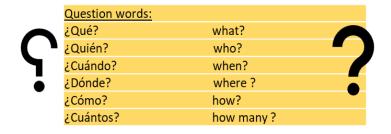
never

Nada

Nunca / jamás

Sequencers:	
Primero	first of all
Después	next
Entonces	then
Al final / Finalmente	at the end / finally

Time expressions :	
Ahora	now
Ноу	today
Esta mañana	this morning
Esta tarde	this afternoon
Esta noche	this evening
Este fin de semana	this weekend
Normalmente	normally
El lunes por la mañana /tarde / noche	Monday morning /afternoon /
evening	
Los fines de semana	at the weekend
El próximo fin de semana	next weekend
El próximo domimgo	next Sunday
A veces	sometimes
Siempre	always
A menudo	often
Todos los dias	everyday
Cada fin de semana	every week end
Cada semana	every week
Cada lunes /martes	every Monday / Tuesday
Durante	during
Normalmente	normally
El año pasado	last year
El fin de semana pasado	last weekend



1.1 El español global De dónde eres? Where are you from? De dónde es? Where is he/she from? Argentina Argentina Chile Chile **C**spaña Colombia Colombia Cuba Cuba Spain España Estados Unidos United States Equatorial Guinea Guinea Ecuatorial la Isla de Pascua Easter Island las Islas Baleares Balearic Islands las Islas Canarias Canary Islands las Islas Filipinas Philippines Perú Peru República Dominican Republic Dominicana la capital capital el destino destination famoso/a famous hispanohablante Spanish-speaking histórico/a historic el mapa map el monumento monument el mundo world el país country 1.4 j...y que cumplas muchos más!

1.2 ¿Qué tal? ¿Cómo estás? How are you? ¿Qué tal? How are you? bien well fantastic fantástico/a fatal awful great, excellent fenomenal bad/badly mal regular 50-50 ¿Y tú? And you? Hello! ihola! Buenos días Good morning/day Good afternoon Buenas tardes ¡Adiós! Goodbye! ¡Hasta luego! See you later! /¡Hasta la vista! el alfabeto alphabet escribir to write to be called llamarse



Monday lunes junio Tuesday martes julio miércoles Wednesday agosto Thursday iueves septiembre Friday viernes octubre sábado Saturday noviembre domingo Sunday diciembre January enero

February

March

April

May

febrero

marzo

abril

mayo

September October November December When is your birthday?

June

July

year

¿Cuándo es

cumpleaños?

el año

August

cumpleaños la fecha el mes el primero

el uno

birthday date month the first week la semana the first

1.5 Mis preferencias

rojo/a

rosa

red

pink

amarillo/a vellow blue azul verde white green blanco/a detesto I detest claro/a light I love me encanta aris grey me gusta (mucho) I like (a lot) marrón brown mi color favorito morado/a purple My favorite colour is... es... orange naranja no me gusta black negro/a I don't like (at all) (nada) dark oscuro/a odio I hate

prefiero

I prefer

1.6 ¡Tod@s a clase!

hay... there is...

el bolígrafo pen

el cuaderno exercise book

el estuche pencil case

la goma eraser

la hoja de papel sheet of paper

el lápiz pencil

el libro book/textbook

la regla ruler

el sacapuntas pencil sharpener

las tijeras scissors



SWAG BAG

además furthermore

o or pero but

sin embargo however

también *also* y *and*



1.1 El español global

Spanish

January

March

May

February

am well

really well

really bad

terrible

great!

bad

Year 8 Spanish Knowledge Organiser

Unit 2: Mi Burbuja

2.1 ¡Contamos hasta cien!

treinta y dos 32 33 treinta y tres treinta v cuatro 34 35 treinta y cinco 36 treinta v seis 37 treinta y siete 38 treinta v ocho 39 treinta y nueve cuarenta 40 41 cuarenta y uno 50 cincuenta cincuenta y dos 52 sesenta 60 sesenta y tres 63 70 setenta 76 setenta y seis 80 ochenta 84 ochenta y cuatro noventa 90 95 noventa y cinco 100 cien el centímetro centimetre el kilómetro kilometre el largo lenath medir (mido) to measure el metro metre el número de telephone

2.2 Te presento a mi familia

la abuela grandmother arandfather el abuelo los abuelos grandparents divorciado/a divorced la edad age la familia familv twins los gemelos la hermana sister la hermanastra stepsister el hermanastro stepbrother brother el hermano los hermanos siblings la hija única only child (daughter) el hijo único only child (son) la madrastra stepmother la madre mother older mayor menor younger stepfather el padrastro el padre father los padres parents la prima cousin (female) el primo cousin (male) la tía aunt el tío uncle

2.3 Los animales y las mascotas

I would like to have me gustaría tener no tengo animales I don't have any pets similar to similar a tenía I used to have el caballo horse la cobaya quinea pig rabbit el conejo el gato cat el pájaro bird dog el perro el pez fish el ratón mouse la serpiente snake de colores colourful enorme enormous

2.4 Espejito, espejito...

tener to have azules blue brown (eyes) marrones black/dark negro los ojos eves verdes green calvo/a bald castaño brown (hair) el color colour corto short el estilo style largo long straight liso ondulado wavy pelirrojo ginger (hair) el pelo hair

rizado curly rubio blond la barba beard el bigote moustache la boca mouth la cara face las gafas glasses

la nariz nose freckles las pecas

2.5 Las descripciones físicas

young

number

to be ser alto/a tall bajo/a short delgado/a thin ugly feo/a gordo/a fat aood-lookina guapo/a

teléfono

ioven

mediano/a musculoso/a viejo/a la infanta/ princesa los rasgos fisicos la reina el rev

average height muscular old princess physical features queen kina

2.6 Mi carácter y relaciones

big

small

ferocious

¿Cómo es? What is he/she like? aburrido/a boring activo/a active agresivo/a aggressive alegre happy antipático/a unfriendly arrogant arrogante divertido/a fun enthusiastic entusiasta

feroz

grande

pequeño/a

generoso/a inteligente nervioso/a perezoso/a rápido/a simpático/a sincero/a tímido/a tonto/a torpe

generous intelligent nervous lazy fast nice honest shy silly clumsv



Year 8 Spanish Knowledge Organiser

Unit 2: Mi Burbuja

2.1 ¡Cont	tamos hasta cier	n! = L	_et's count to 1	.00!														
La Giralda de Sevilla Las torres de la Sagrada Familia en Barcelona				mide na miden	mide noventa y ocho miden setenta y seis		metro	ros			The Giralda in Seville measures 98 metres. The towers of the Sagrada Familia in Barcelona measure 76 metres.					res.		
El patio central de la Alhambra de Granada			tiene	tre	treinta y seis		de	e largo.		The central patio of the Alhambra in Granada measures 36 metres long.					es long.			
Mi núme	ro de teléfono (es el	<u>93 62 44 150</u> .	= My phone nu	mber is 93	62 44 150.												
2.2 Te pr	esento a mi fai	milia	= Introducing	g my family														
Tengo un hermano mayor. una hermana menor. dos hermanos mayores. dos hermanas menores. un hermanastro una hermanastra			Tave A y	An older brother. A younger sister. Two older brothers. Two younger sisters. A stepbrother. A stepsister.		Soy	Soy hijo único hija única					n only child (boy) n only child (girl)		*				
2.3 Los a	nimales y las n	nasc	otas = Animal	s and pets														
Tengo	Tengo un perro feroz enorme una cobaya grande		I have	I have a ferocious dog. Man enormous cat. a big guinea pig.			gustaría tener un caballo. un pájaro. Tenía un ratón. una serpien).	l used		like to have a horse. a bird. sed to have a mouse. a snake.		(9)				
2.4 Espe	jito, espejito	= M i	irror, mirror															
Tengo	los ojos	m ve	zules narrones erdes	I have	blue brown green	eyes. Te	ngo el	pelo	castaño rubio negro	У	corto. largo. liso.		I have	short bro long blor straight b		hair.	Soy pelirrojo, am a redhead Llevo gafas = glasses	b
2.5 Las d	escripciones fí	sicas	s= Physical de	scriptions	, ,													
Soy	Soy alto/a bajo/a delgado/a y guapo/a. Jam short thin			and fat. young.	ivii paare es viejo y mediano – iviy dad is old and average neight.					*	Ť							
2.5 Mi ca	arácter y relaci	ones	= My charact	ter and relation	ships													
Soy	activo/a alegre	у	sincero/a divertido/a	aunque soy	aburrido/ arrogante		act I am har		and	hones fun	although	l am	boring. arrogant.	enthusia	istic.		sta = She is lazy	

intelligent

shy.

clumsy.

nice

inteligente

simpático/a

tímido/a.

Él es inteligente pero torpe = he is intelligent but

