



LYMM HIGH SCHOOL

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)

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- 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



Lis	st 1	Lis	st 2	Lis	st 3
accelerate (v)	speed up	Hypothesis (n)	prediction	precise (adj)	exact
arbitrary (adj)	random	illustrate (v)	show	principle (n)	Belief
assert (v)	state/claim	implicit (adj)	Suggested but not directly said	proceed (v)	go ahead
authorise (v)	give permission	inhibit (v)	prevent	pursue (v)	go after
conceive (v)	think	innovation (n)	new invention	react (v)	respond
context (n)	setting	method (n)	approach	region (n)	area
contribute (v)	add to	modify (v)	change	require (v)	need
denote (v)	stand for	notion (n)	idea	restrict (v)	limit
distinct (adj)	Different/ separate	obtain (v)	get	shift (v)/(n)	change
establish (v)	set up	passive (adj)	not active	subsequent (adj)	coming after
entity (n)	a thing/ a being	perspective (n)	viewpoint	transmit (v)	Communicate/ send
feasible (adj)	possible	phenomenon (n)	Remarkable thing	verbal (adj)	spoken
fluctuate (v)	vary/change	precede (v)	go before	verify (v)	check

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YEAR 8 KNOWLEDGE ORGANISER - CULTURES

Recording fr Observation Primary sour observation drawing: drawing son real in front Secondary so observation drawing: drawing son from a pictur	Ince al mething of you. source al mething					Pencils c grades. pencil H = hara In Art t pencils a If your pe it is like (hard bla	es of Per ome in d The soft the darke tone. I, B = blac he most of rer B, 2B a ncil has r ely to be a sck in the the scale	ifferent er the er the k (soft) useful and 4B. no grade an HB middle
Art / Drama /	Attitudes Beliefs	1992	1 49	9 M	1111	ALC:	9011	
Music	Dellets	6H	5H	4H	3H	2H	H	F
Food	Culture	nguage 4	B	2B	3B	4B	5B	6B
Faith/ Religion	Custo	Culture	e	The ideas a particul				aviour of
Behavi	our Rituals	Tone		A tone is a colour v by both t	produced vith grey	d either l , or	by the m	ixture of
	Yellow- Green Yellow Yellow- Orange	Shade		The mixtu increases			th black,	which
		ange Tint		The mixtu increases			th white,	, which
<u>Colour</u> <u>Theory:</u> When	Biue- Violet Violet	Mark makin	g	Different create in material o canvas or	a piece o on any su	of art. It a urface, no	pplies to	o any art
mixing and blending			osition	The posit paper	ion and I	ayout of	shapes o	on the
colours and creating colour	primary analogous	Patteri	n	A series of make a de inspired b	ecorative	image. I	Patterns	are often
palettes for your work. Do not forget the colour wheel.	secondary complementary	Rango	li	Designed straight li flowers a symmetry prosperity	nes, curv nd other / of the c	red lines things fr lesigns ir	and ima om natu n a symb	ges like ire. The

LYMM YEAR 8 KNOWLEDGE ORGANISER - CULTURES

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

(drawings/photograp hs) as starting points. Use artists styles to inspire you. Be creative with composition. Try and test every section of your piece

before you create it.

Dotted/dash Line

= Mountain

Dotted Line = Valley

Steve Wintercroft

https://wintercroft.com/

· . In 2013, he left the surf industry to launch Wintercroft, an environmentally conscious design company specialising in helping people make Masks from waste card.

Iain Macarthur

lain Macarthur | Animals, Character, Commercial, Food and Drink, Portraiture and Celebrities | JSR Agency

· A illustrator based in South London, known for his mixture of intricate patterns and wildlife elements.

· First ever comic I looked at was the Batman series. Since then I've been obsessed with drawing odd fantasy drawings and anime characters.





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).



Diwali (festival of Light)

· Learn more about this by scanning the QR code



)esign an $\overline{\mathbf{O}}$ echnology

Types of Polymers..... **Year 8 Material Focus: Polymers** Scan the QR code to

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

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

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

Costing and enconsulation is	Laminated, good electrical insulator,	Polyester
materials Laminates for work surfaces,	Stiff, hard, strong, resists some chemicals	Melamine
Principal uses Casting and encapsulation, adhesives, bonding of othe	Properties Good electrical insulator, hard, brittle	Name Epoxy resin

ncapsulation, bonding ials tion, tableware ork surfaces,

Urea Stiff, hard, strong, brittle, good electrical Electrical fittings, handles and formaldehyde insulator



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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.



Scan the QR code to learn how plastic bottles are

Many responsible companies producing plastic products conduct a **Ule Cycle Assessment** (ICA) 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

made..

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.

about Bio Plastics..

Scan the QR code to learn

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 vironmental concern, untryside, rivers and ocean

Plastic Resin Identification Codes

Common products: soda & water bottes; cups, Jars, trays, clamshells clothing, carpet, clamshells, soda & water bottles	PETE Polyethylene Terephthalate
Common products: milk Jugs, detergent & shampoo bottles, flower pols, grocery bags Recycled products: detergent bottles, tlower pols, crates, pipe, decking	HIGH-Density Polyethylene
Common products: cleaning supply jugs, pool liners, twine, sheeting, automotive products bottles, sheeting binders, carpet backing, flooring	Pvc Polyvinyl Chloride
Common products: bread bags, paper towels & tissue overwrap, squeeze bottles, trash bags, six-pack rings Recycled products: trash bags, plastic trash bags, plastic	Low-Density Polyethylene
Common products: yogurt tubs, cups, juice bottles, straws, hangers, sand & shipping bags Recycled products: paint cans, speed bumps, auto parts, food containers, hangers, plant pots, razor handles	Pp Polypropylene
Common products: to-go containers & tatware, hot cups, razors, CD cases, shipping cushion, cartons, trays picture frames, crown molding, rulers, flower pots, hangers, toys, tape dispensers	Ps
Common types & products: polycarbonate, nylon, ABS, acrylic, PLA; bottles, safety glasses, CDS, headlight lenses Recycled products: electronic housings auto parts,	OTHER
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Types of Metals..... **Year 8 Material Focus: Metals**

Scan the QR code to

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learn where metal comes from.....

FERROUS METALS:

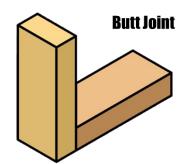
Metals that contain iron and are 3 5 etic They are pro ine ð rust

Netals that col	Metals that contain from and are magnetic. They are prone to rust.	st.
NAME	PROPERTIES	USES
Mild Steel	Tough. High tensile strength. Can be case	Most common metal used in school
	hardened. Rusts very easily.	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 conta	NON-FERROUS METALS: Metals that do not contain iron and are not magnetic . They do not rust .	ot rust.
NAME COLOUR		USES

ועוכנמוס נוומנ		ואופנמוז נוומר מס ווסר כסוונמות וויסון מוומ מופ ווסר ווומצוופנוכי. דוופץ מס ווסר ומזר	IIOL IUSL.
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. pipes.
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, under pressure.	Solders, pipes, batteries, roofing.
ALLOYS: Alloys are m a mixture of	ixtures of metal copper and zinc	ALLOYS: Alloys are mixtures of metal with an element to improve its properties or aesthetic a mixture of copper and zinc. Alloys can also be classified as ferrous or non-ferrous	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.

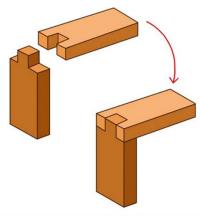
NAME	NAME COLOUR	PROPERTIES & USES
Brass	Gold	An alloy of copper and zinc, can be cast and machined, used for musical instruments and ornamental hardware
Pewter	Dark grey	Made up of tin (approximately 90 per cent), antimony (7 per cent) and other metals such as copper or bismuth, it has a low melting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

Wood Joints Frame/Box Joints.....

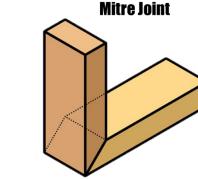


A butt joint is a technique in which two pieces of material are joined by simply placing their ends together without any special shaping. A butt joint can be strengthened with dowels, nails and screws.

Comb/Finger Joint

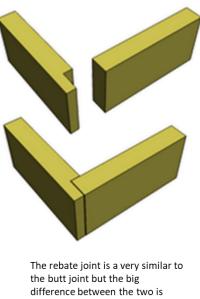


A finger joint, also known as a comb joint, is a woodworking joint made by cutting a set of complementary, interlocking profiles in two pieces of wood, which are then glued. The cross-section of the joint resembles the interlocking of fingers between two hands, hence the name "finger joint"



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)



that one of the ends of the timber has a groove cut out of it to create much better holding strength.

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





Laser cutter

Tools and Equipment.....



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

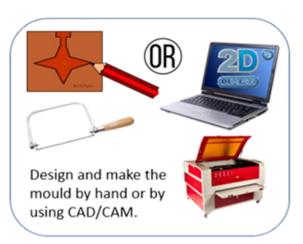
A drawing is sent from a CAD program such as 2D Design, to the laser cutter.

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

Manufacturing Processes

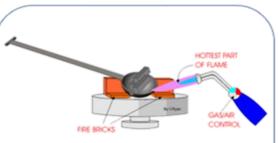
Stages of Pewter Casting......



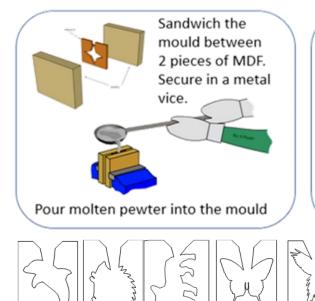


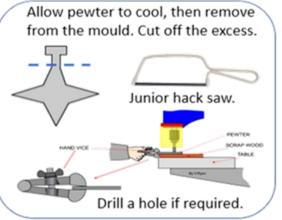


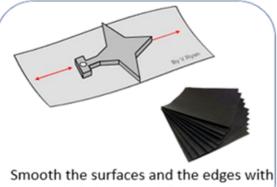
Scan the QR code to learn how to cast metal



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





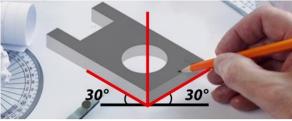


Smooth the surfaces and the edges with emery cloth & wet and dry paper.

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Isometric Drawing......

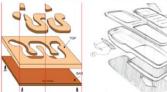
axes are drawn so that the two horizontal axes are drawn at 30 degree angles



Exploded Isometric.....

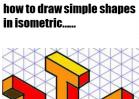
Exploded views

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.

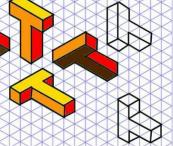


Shading an object to look like wood....





Scan the OR code to learn

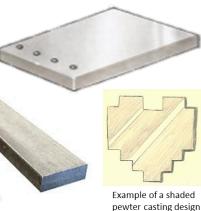


Scan the QR code to learn how to draw simple shapes in exploded isometric.....



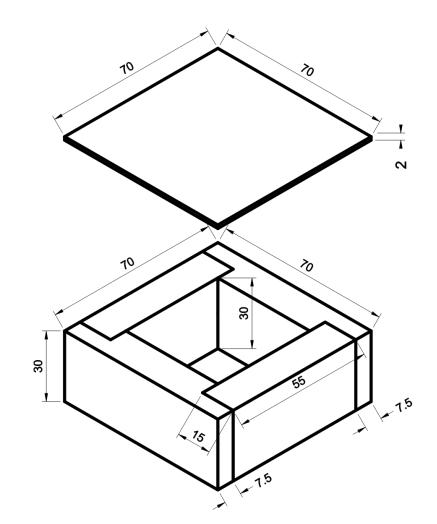
This is the box that you will manufacture.

Shading an object to look like metal....



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

D S 9 **P**C hnolo

Manufacturing Processes CAD/CAM



CAD 2D 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.

Remember that 2D Design defaults to mm. If you want to use cm, type cm after a specific value.

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SELECT A TOOL

Select - to select multiple items hold down SHIFT on the keyboard and click the lines you want

Draw a Circle -

click to place the center, and then click to place a point on the circumference. Double click to set the radius.

Draw a Rectangle -

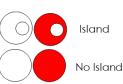
click to place a corner, and then click to place the opposite corner.

> **Deleting** – click on a part you want to get rid of and use the DELETE button on the keyboard. To delete part of a shape, right click and hold on the DFL ANY icon, more delete options will appear.

🜁 TechSoft Design Too Curved line tool - click to place the 🕮 File Edit Draw start of the line, click to place the first bend, second bend, etc. and right click V to finish the line

specific length.

Fill-select the area you want to fill. 'Are there any islands?' Click 'Yes' if you don't want to fill these in, or 'No' if you do.



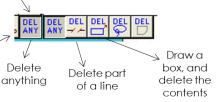
Dimensions – Click at the beginning of where you want to measure, then again at the end. This will aive you the measurement in millimeters.

Straight line tool – click to place the start of the line,

click to place end of line. Double click to set a

Text - click to place text. The box below appears

Text Entry Enter text Click to chanae font, size etc. Settings. ΟK Cancel Help



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

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D

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.

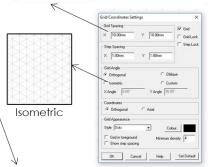
Remember to use the delete part, arc, circle and group functions.

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 arid 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.



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

DESIGN

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GRID STEP LOCK LOCK

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- 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.

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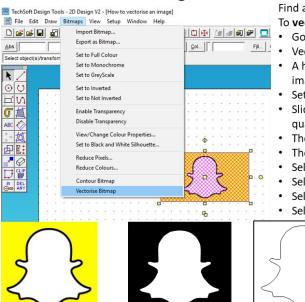


Group - Grouping an object makes it easier to move around and to resize. Use the quick group tool to group and ungroup a collection of objects.

Manufacturing Processes CAD/CAM

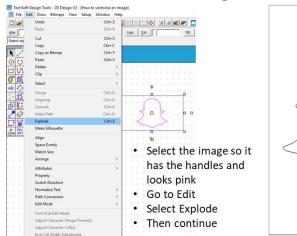
(Computer Aided Design/Computer Aided Manufacture) (DESIGN)

How to vectorise an image.....



1. Bitmap Image

How to delete parts of 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





3. Outline Image 2. Vectorised Image with no 'fill'

4. Parts of image deleted to create a silhouette

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



M and ec **NOIO** Ñ

To Kill a Mockingbird – Harper Lee

Historical and Social Context

Harper Lee was born in Monroeville, Alabama, in 1926. Like Jem and Scout, her father was a lawyer. She studied at the University of Alabama and worked in New York. There she began work on *To Kill a Mockingbird*, in the mid 1950s. It was completed in 1957 and published in 1960 just before the black civil rights movement in America really took.

The Wall Street Crash and the Great

Depression in America: When the Wall Street stock market crashed in October 1929, the world economy was plunged into the Great Depression. By the winter of 1932, America was in the depths of the greatest *economic depression* in its history. The number of unemployed people reached upwards of 13 million. Many people lived in deprived conditions close to famine and many had to move to shacks.

American Slavery: Black people were originally brought from Africa to America during the 17th, 18th and 19th centuries. They were forcibly transported across the Atlantic in slave ships (in which many died) and sold as slaves to work on sugar and cotton plantations in the Caribbean and the southern states of north America. They had no rights and were seen by their white owners as

little more than animals or machines. Even after the abolition of slavery in 1865, the blacks were still almost powerless. The whites had too much to lose to allow black people any rights. Nothing was equal: black people had the worst of everything, while whites had the best.

Segregation in 1930s America: In the 1930s, although 50% of the population of Southern towns were black, they had no vote and could not marry whites. The policy of segregation meant that black people had to have their own schools, their own churches, their own football teams, even their own cemeteries.

The Scottsboro Case: In 1931, nine young black men were accused of raping two white women on a train. After a series of bitter trials, four of the men were sentenced to long prison sentences - even though prominent lawyers argued that the accusations were false. It was later discovered that the women were lying.

Key themes

SOCIAL INEQUALITY: discrimination and racial prejudice run rife in Maycomb county, whilst only a couple of characters (such as Atticus) are committed to social equality. The social hierarchy perplexes the children who cannot fathom why everyone seems so keen to segment and despise each other. These social divisions are irrational and they can be particularly harmful and destructive to the community.

MORAL EDUCATION: as a bildunsgroman novel, the story tracks the moral development of Scout and Jem. Atticus is committed to ensuring that his children have a strong social conscience and acts as their moral compass throughout the novel. He teaches them to be kind to everyone and not to join in with the neighbourhood rumours and gossip mongering about Boo Radley. He also defends Tom Robinson, a black man, which many people in Maycomb found to be controversial, but Atticus just wants to do what is morally right and lead a good example for his children.

NATURE VS NATURE: Throughout the novel, questions arise around nature vs nurture in different characters upbringings. Nature is what we think is genetically inherited and nurture is dependant on external factors (e.g. the life experiences someone has had). Mayella Ewell has a troubled home life, and we must assess if this is because of her genetic nature, or if it is because of the circumstances she has been raised in. If Mayella was raised by a different family, would she be a different person?

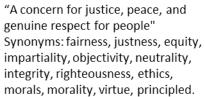
GOOD AND EVIL: To begin with, Jem and Scout appear to assume that everyone around them is inherently good – they haven't really been exposed to evil – this is reflective of their young age and their sense of innocence in their attitudes to life. However, through events such as the rape case, the children develop a more adult perspective, understanding that evil has far reaching effects and can destroy good, innocent lives to great extents.

PREJUDICE: Prejudice permeates Maycomb society. Almost every character is either prejudiced against others, or the victim of prejudice. There is racial prejudice, class prejudice and prejudice against individuals who don't fit in.

Gold



Fair or just behaviour or treatment for all.



Silbu

A serious disagreement or argument. Synonyms: contradictory, incompatible, inconsistent, irreconcilable, incongruous, contrary, opposing, discordant, differing, different, divergent, discrepant, varying,

disagreeing

experience.

xenophobia.

Prejudice

Conflict





The capacity or ability to direct or influence the behaviour of others or the course of events.

Preconceived opinion that is not

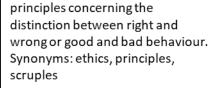
Examples of prejudice: Racism,

homophobia, religious prejudice,

based on reason or actual

sexism, ageism, classism,

Morality



Plot Part 1

PART ONE **Chapter 1:** Scout Finch recounts the events that led to her brother Jem's broken arm many years earlier. Alongside Atticus, Scout also lives with her older brother Jem and their cook Calpurnia, Maycomb – a tired town in the grips of The Great Depression. A boy called Dill moved into the neighbourhood for the summer, who they befriended. Together, they all try to lure the mysterious Boo Radley out of his house. There are lots of rumours about Boo and his family.

Chapters 2-3: Scout goes to school for the first time, but does not get on well with her teacher, Miss Caroline. When Miss Caroline lends Walter money, Scout protests that she won't get it back (The Cunninghams are a poor family) Scout's hand is slapped with a ruler. To smooth things, Jem invites Walter over for dinner, where Calpurnia scolds Scout for being rude to Walter. Back at school, Miss Caroline cries when a 'cootie' crawls out of Burris Ewell's (a poor boy) hair.

Chapters 4-6: Scout & Jem find 'gifts' in knotholes in a Radley tree (chewing gum & pennies). Dill returns in summer Scout spends more time with a neighbour – Miss Maudie. She tells Scout that most of the rumours about Boo are untrue. Jem and Dill try to lure Boo out of the house. They see a shadow of a man and flee, with the sound of a shotgun behind them. Jem becomes stuck and has to shuffle out of his pants.

Chapters 7-8: Scout also dislikes 2nd grade at school. Jem and Scout find other gifts at the Radley house. Nathan Radley then fills the knothole with cement, he says because 'the tree is dying.' There is a snow day of school, and the children build a snowman of Mr Avery. Atticus is not happy and tells them to disguise it. Miss Maudie's house catches fire, and the neighbours wait outside. A blanket is draped over Scout – it is assumed it must have been Boo.

Chapters 9-11: Atticus is asked to defend Tom Robinson, a black man, in a rape case. It is a case that he can never hope to win, but he does so for his own sense of morality and justice. Scout gets into a fight at school, and then with her cousin Francis, over them calling Atticus a 'nigger lover'. When a mad dog comes into town one day, Atticus shows that he is a great shot with a rifle – shooting it dead from some distance. In C.11, an old lady called Mrs Dubose is offensive to the Finches about Atticus defending Tom, causing Jem to destroy her camellia bushes. She is a mad old lady, and so Atticus is mad. Jem is made to read to her once a day for a month.

Key Characters	
Scout	The narrator and the protagonist of the narrative. This is the tale of her bildungsroman – or coming of age story. Although she is a girl she has a competitive and combative streak that she has to master. Fundamentally she believes in the goodness of people
Jem	Jem is Scouts older brother, Four years older than Scout, he gradually separates himself from her games, but he remains her close companion and protector throughout the novel. Jem moves into adolescence during the story, and his ideals are shaken badly by the evil and injustice that he perceives during the trial of Tom Robinson.
Atticus	Scout and Jem's father, a lawyer in Maycomb descended from an old local family. A widower with a dry sense of humor, Atticus has instilled in his children his strong sense of morality and justice. He is one of the few residents of Maycomb committed to racial equality. When he agrees to defend Tom Robinson, a black man charged with raping a white woman, he exposes himself and his family to the anger of the white community. With his strongly held convictions, wisdom, and empathy, Atticus functions as the novel's moral backbone.
Boo Radley	A recluse who never sets foot outside his house, Boo dominates the imaginations of Jem, Scout, and Dill. He is a powerful symbol of goodness swathed in an initial shroud of creepiness, leaving little presents for Scout and Jem and emerging at an opportune moment to save the children. An intelligent child emotionally damaged by his cruel father, Boo provides an example of the threat that evil poses to innocence and goodness. He is one of the novel's "mockingbirds," a good person injured by the evil of mankind.
Mayella Ewell	Bob Ewell's abused, lonely, unhappy daughter. Though one can pity Mayella because of her overbearing father, one cannot pardon her for her shameful indictment of Tom Robinson.
Tom Robinson	The black field hand accused of rape. Tom is one of the novel's "mockingbirds," an important symbol of innocence destroyed by evil.
Dill	Jem and Scout's summer neighbor and friend. Dill is a diminutive, confident boy with an active imagination. He becomes fascinated with Boo Radley and represents the perspective of childhood innocence throughout the novel.
Calpurnia	The Finches' black cook. Calpurnia is a stern disciplinarian and the children's bridge between the white world and her own black community.

Inglish

<i>Plot</i> Part 2	Methods	
Part Two Chapters 12-13: To Scout's disappointment, Dill does not visit Maycomb in the summer, and Jem wants to be more apart from her. Calpurnia takes the children to her 'coloured' church, which is exceptionally poor, yet is collecting donations for the Robinson family.	Simile	A descriptive technique that compares one thing with another, usually
Chapters 14-15: Alexandra tells Scout she cannot go back to the coloured church, and tries (unsuccessfully) to convince Atticus to get rid of Calpurnia. Jem and Scout find Dill, who has run away from home. Atticus places himself in front of the Maycomb jail to prevent a lynch mob from getting to Tom. Scout and Jem jump out and Scout speaks to Mr Cunningham, who is in the mob, about his son. Ashamed, Mr Cunningham gets the mob to leave.	Symbolism	using 'as' or 'like'. Using an object to represent an idea or concept
Chapters 16-17: The trial begins. People attend from all over, including Mr Dolphus Raymond, a wealthy man who has a relationship with a black woman. Jem, Scout, and Dill sneak into the courthouse and sit on the balcony. Heck Tate, the sheriff, found Mayella Ewell badly beaten, and Bob Ewell told him she was raped by Tom Robinson. No doctor was called, and the bruises were on the right hand side of her face. Atticus questions why no doctor was called (too expensive and 'no need') and confirms	Personificat ion	Describing an inanimate object as having human feelings.
Bob is left-handed (a left-hander would normally bruise the right of someone's face). Chapters 18-19: Mayella is called to testify. She states that she called Tom into the house to break up a dresser, but that once in he took advantage of her. He questions how Tom could have inflicted the bruises, when he has a useless left hand. She yells at the courtroom that they would be cowards not to convict Tom and refuses to be questioned anymore. Tom is then questioned. He declares that Mayella embraced him, at which point her father appeared at the window. Tom's boss (Link Deas, a white man)	Pathetic fallacy	A device in which emotions are given to a setting, an object of the weather, usually to convey a particular mood.
confirms Tom is a good man. Chapters 20-22: They encounter Mr Dolphus Raymond. He explains that he pretends to be drunk to give an explanation for his lifestyle – he actually just prefers black people to whites. When they return to the courtroom, Atticus is making his closing comments –citing the prosecution's shaky evidence. The children return after supper and hear the jury return a guilty verdict. Jem		A technique in which animal attributes are imposed upon non- animal objects, humans, and events.
is horrified by the guilty verdict, and no longer has faith in the people of Maycomb. The next day, the black population delivers an avalanche of food to the Finch household. The children then hear that Bob Ewell has spat at their father that morning, vowing to seek revenge.	Foreshado wing	A structural feature where the writer hints/indicates of a
Chapters 23-25: Bob Ewell's threats are worrisome to everyone except for Atticus himself. Atticus feels that Tom has a chance of acquittal, but if not he will be executed by electric chair. Atticus states that in an Alabama court, they were lucky to get the court to actually deliberate. One day in August, at Aunt Alexandra's missionary circle, Atticus reveals that Tom has attempted to escape and was shot dead. The missionary circle reconvenes as if nothing is wrong. Mr Underwood writes a long editorial condemning his death, but others think that it is typical for a black man to do something irrational like try to escape.	Biblical illusions	future event. Words/situations tha make reference to th bible.
Chapters 26-27: School starts again. Teachings at school on the theme of equality frustrate Scout, as the same teachers have been known to be prejudiced against blacks in the town. After Bob Ewell loses a job, everyone connected with the case (Judge Taylor,	Irony	Expressing meaning that usually signifies the opposite.
Helen Robinson, Link Deas) begins to be harassed in some way – e.g. by being followed or seeing shadows lurking around their homes.	Hyperbole	Exaggerated statements, usually not meant to be take
Chapters 28-31: On the way home from the Halloween event, the children are pursued by a mysterious assailant. Jem tries to protect Scout but is dragged away. When the noise of the struggle has ceased, she sees a prone man lying in the street and a man carrying Jem back home. The Dr is called - Jem has a broken arm. Heck Tate appears and tells Atticus that the prone man is dead – it is Bob Ewell. As Scout explains what happened, she turns to the rescuer and realises it is Boo Radley. They listen to Heck and Atticus discussing what to do – although Heck knows that Boo killed Ewell, they agree that the story is Ewell fell on his own knife.		literally.

English

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 Ho**w 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.

The 4C's for Good Food Safety • Cooking • Cleaning • Chilling • Cross contamination

Core temperatures:

Food Hygiene and Safety:

Before Cooking:

2.

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

When Using The Cooker:

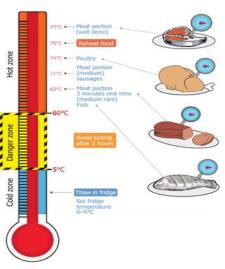
- Turn pan handles in away from edge of cooker
- 2. Always turn hob off when not in use
- Never leave food cooking on the hob unattended
- Be careful not to let food boil dry
 Never touch an electric hob when turned
- off, it may still be hot
- Don't leave metal spoons in pans when cooking as they can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



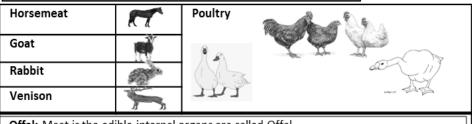
echnolo

2. Commodities - Meat, Poultry,

<u>MEAT</u> 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

		Bans are called on al. 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.
<u>0</u>	rganic 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 renown high level of fat marbling.		0 0
	<u>Vea</u> l	Veal meat 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. Mutt meat of older 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.
5		This is a specific cut of the thigh part of the pig which has been cured and or salted.
om Pig		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.
Meat fr	Gammon	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 product.

Other sources of meat can include:



Offal: Meat is the edible internal organs are called Offal.

Know your fish cuts



Suprême Délice



Paupiette Gougons

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	۵۵ ۲۵ ۲۰
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		

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.

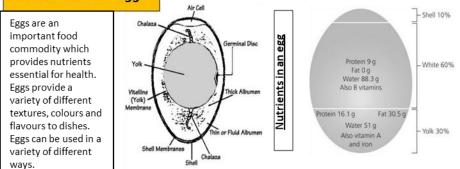
Drying - Fish are laid out to be dried.

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

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 fin\$7 Very small fish (e.g. sprats and whitebait) can be fried and eaten whole.

4. Commodities Eggs



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

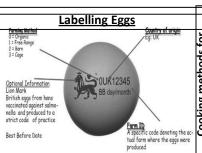
Grade B: Mostly used for commercial baking or go to hospitals, restaurants, etc. very few are sold at retail stores. Yolk is slightly flattened; white is thinner Shell is un-cracked and may have a rough texture; and/or be slightly soiled and stained.

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 stored blunt end upwards. They should be removed an hour or so before use, because cold eggs do not whisk well.

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

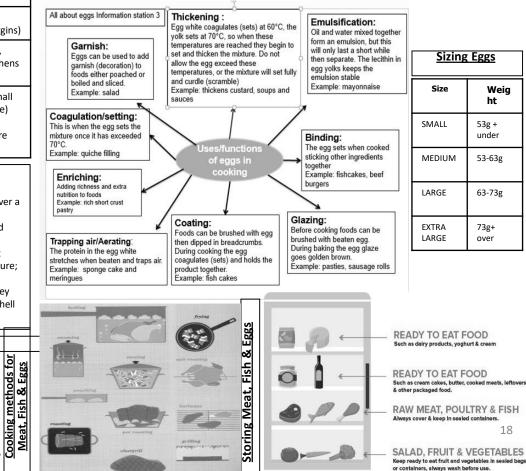
The shell: consists of an outer cuticle (a transparent, protective coating, a true shell and inner membranes. The shell is porous (pores are tiny holes), and therefore allows the developing chick to obtain oxygen. At one end of the egg, the membranes separate into an air space, to supply the chick with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



EU Law

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

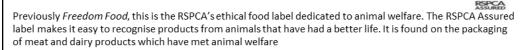
logo gives information on where the food has been farmed, processed and packed. Food given to animals on farms displaying the Red Tractor logo is safe from them to eat with no risk of contamination to the meat or milk produced. The animals' health and welfare is regularly checked.

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

and flowers.

Red Tractor DACRY

RSPCA Assured



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.

5. 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 cream

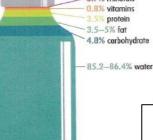
When acid is added it curdles and becomes solid or semi-solid, making cheese

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

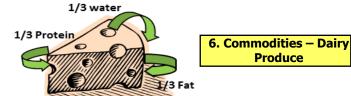
Where does Milk come from?

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.





Types of Milk	Description
Whole milk	Milk with nothing added or removed. Fat
	content: 3.9%.
Semi-	The most popular type of milk in the UK. Fat
skimmed milk	content: 1.5%
Skimmed	Milk that has had most of the fat removed.
milk	Fat content: 0–0.5%
	(average 0.1%)
1% fat milk	Offered to consumers who like the taste of
	semi-skimmed, but want milk
	with a lower fat content.
Organic milk	Milkfrom cowsthathave been grazed on
	pasture that has no chemical
	fertilisers, pesticides or agrochemicals
	used on it.
UHT milk	Milkthathasbeen heat treated to give it a longe
	shelflife.Once opened it must be treated in the
	samewayas freshmilk.
Lacto-free	Milk that has had the milk sugar (lactose)
milk	removed, making it suitable for those who
	have an intolerance to lactose.
Soya milk	Made from the liquid of cooked soya beans. I
	is suitable for vegans and substitute milkfor
Goat's milk	those who are allergic to dairy food. Another substitute milk for people allergic to
Goat Smith	cow's milk.
Evaporated	A concentrated, sterilised milk product. It ha
milk	a concentration twice that of standard milk.
	Evaporated milk is heat treated and then
	evaporated under reduced pressure, at
	temperatures between 60°C and 65°C 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.
Condensed	Concentrated in the same way as evaporated
milk	milk, but with the addition of sugar.
Dried milk	
powder	Produced by evaporating the water content of milk using heat.
powder	or mink using near.
Almond and	An alternative for vegans or people with
coconut milk	allergies



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.

19

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

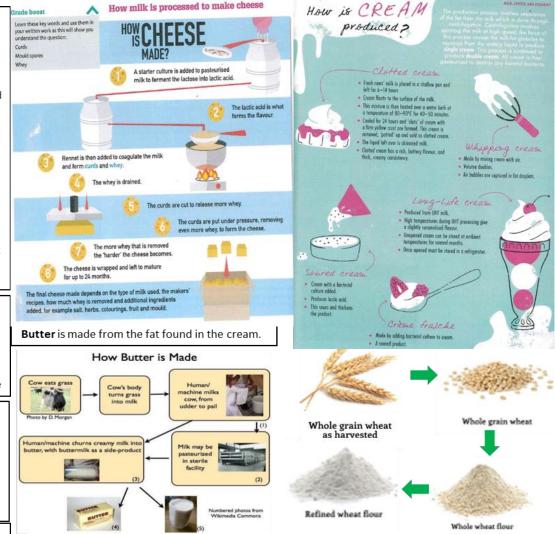
Semi- hard cheeses are 'pressed' cheeses - but not pressed as much as hard cheeses! are examples

- 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 all!

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.



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: its 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

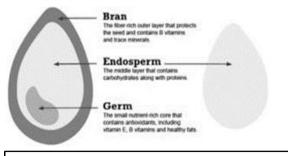


7. Commodities: Cereals

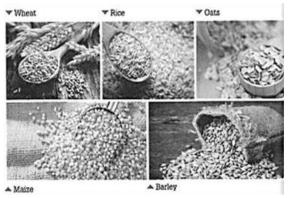
A 'wholegrain' is made up of three elements:

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

Whole Grain vs. "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.





Processing the flour after milling

How cereals are processed:

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 5 French Knowledge Organiser Module 4: Le monde est petit + Module 5: Le sport en direct

Module 4: Unit 3 Je me lève. Je prends le petit déjeuner. Je me douche. Je me coiffe. Je m'habille. Je me lave les dents. Je quitte la	l get up.	Module 4: Unit 5 – A new region Où est-ce que tu es en vacances? Je suis en Corse. C'est comment? C'est très joli. À quelle heure est-ce que tu te lèves? Je me lève à Où est-ce que tu prends le petit déjeuner? Module 5 – Point de départ	Where are you on holiday? I'm in Corsica. What is it like? It's very pretty. What time do you get up? I get up at Where do you have your breakfast? Sports in my town	Je prends le petit déjeuner dans le jardin. Qu'est-ce qu'on peut faire ici? On peut faire des randonnées. Qu'est-ce que tu fais pendant la journée? Je vais à la plage. Qu'est-ce qu'on doit faire l'après-midi? On doit faire la sieste.	I have breakfast in the garden. What can you do here? You can go for walks. What do you do during the day? I go to the beach. What must you do in the afternoon? You must take a siesta.
maison. Je me lave. Je me couche.	I have a wash. I go to bed.	Dans ma ville / mon village, il y a beaucoup de possibilités sportives. peu de	In my town / my village, there are/is lots of sporting opportunities. few / not many	Quel temps fait-il? Il fait chaud. Qu'est-ce que tu vas faire le weekend prochain? Je vais faire un pique-nique.	What's the weather like? It is hot. What are you going to do next weekend?
Module 4: Unit 4 j'ai déménagé beau / belle / bel nouveau / nouvelle / nouvel vieux / vieille /	Moving house	peu de possibilités sportives. une salle de fitness On peut jouer au / à la / à l' / aux On peut faire du / de la / de l' / des le basket / le billard le cyclisme / le vélo le foot(ball) / le footing	sporting opportunities. a gym You can play You can do basketball / snooker cycling football / jogging	Qu'est-ce que tu as fait le weekend dernier? Je suis allé(e) C'était comment? C'était intéressant.	I am going to have a picnic. What did you do last weekend? I went How was it? It was interesting.
vieil un appartement une maison un salon un bureau une cuisine une chambre un collège un gymnase une cantine un copain / une copine un(e) voisin(e) un(e) petit(e) ami(e) vivre sans toi	a flat a house a living-room an office a kitchen a bedroom a school a gym a canteen a friend a neighbour a boyfriend/ girlfriend to live without you	le handball / le hockey le judo / le patin à glace le rugby / le ski / le tennis le tennis de table le ping-pong le volleyball la danse / la gymnastique la musculation la pétanque / les boules la voile / la planche à voile l'athlétisme / l'équitation les arts martiaux Je suis membre d'un club. Je m'entraîne deux fois par semaine. Mon héros sportif Mon héroïne sportive est ll/Elle a gagné. ll/Elle a marqué un but.	handball / hockey judo / ice skating rugby / skiing / tennis table tennis table tennis volleyball dance / gymnastics weight training boules sailing / windsurfing athletics / horse riding martial arts I am a member of a club. I train twice a week. My sporting hero is My sporting hero is He/She won. He/She scored a goal.	Module 5 – Unit 1 Je trouve le tennis amusant(e). compliqué(e). divertissant(e). fatigant(e). intéressant(e). passionnant(e). relaxant(e). violent(e). ennuyeux / ennuyeuse. difficile. facile. À mon avis / Pour moi le footing est plus facile que la natation. la voile est moins amusante que le ski.	Less or more? I find tennis fun. complicated. entertaining. tiring. interesting. exciting. relaxing. violent. boring. difficult. easy. In my opinion / For me jogging is easier than swimming. sailing is less fun than skiing.

The POWER of the INFINITIVE

You can add an infinitive to these phrases to:

- 1) give an **opinion** or
- 2) use a modal verb
- 3) say something in the near **future** tense

Opinion phrases:

J'aime – I like J'aime jouer. – I like to play. J'adore – I love J'adore chatter. - I love to chat. Je déteste – I hate Je déteste **regarder** la téle. – I hate **to watch** the TV.

Je vais **aller**. – I am going to go.

Je vais manger. - I am going to eat.

Modal verbs:

<mark>Je veux –</mark> I want	Je veux aller . – I want to go .
Je peux – I can	Je peux jouer . – I can play .
Je dois – I have to	Je dois aider – I have to help

Near future:

Je vais – I am going

rigoler	to laugh/joke	
surfer	to surf	
tchatter	to chat (online)	
télécharger	to download	
téléphoner	to phone	
tourner	to turn	
traîner	to hang around	
travailler	to work	
trouver	to find	
visiter	to visit	
voyager	to travel	
Regular – <i>re</i> verb infinitives		
attendre	to wait for	

			se
voyager	to travel		se
			se
Regular – <i>re</i> ve	erb infinitives		s'e
attendre	to wait for		s'ł
entendre	to hear		se
perdre	to lose		se
rendre visite	to visit		
vendre	to sell		j€

Regular – <i>ir</i> verb infinitives			
to clap			
to choose			
to finish			
to vomit			

Reflexive verb infinitives		
s'appeler	to be called	
se blesser	to get injured	
se coiffer	to do hair	
se coucher	to go to bed	
se doucher	to shower	
s'entraîner	to train	
s'habiller	to get dressed	
se laver	to have a wash	
se lever	to get up	

je me / tu te / il se / elle se / on se nous nous / vous vous / ils se / elles se

The PRESENT TENSE regular verb patterns

To use the regular infinitive verbs to talk about things happening now, you must take the er, ir, or re off the infinitive and add the correct ending (in bold below) so that it matches the per-

regarder		finir
je regard e		je fin is
tu regard es		tu fin is
il/elle/on regard e		il/elle/on fin it
nous regard ons		nous fin issons
vous regard ez		vous fin issez
ils/ells regard ent		ils/ells fin issent
	_	

son doing the verb.	
	attendre
	j'attend s
	tu attend s
	il/elle/on attend
	nous attend ons
	vous attend ez
	ils/ells attend ent

Irregular verbs

inegular verbs			
aller	<mark>to go</mark>	<mark>je vais</mark>	<mark>I go /am going</mark>
avoir	<mark>to have</mark>	<mark>j'ai</mark>	<mark>l have</mark>
boire	to drink	je bois	I drink
découvrir	to discover	je découvre	I discover
dormir	to sleep	je dors	I sleep
courir	to run	je cours	l run
<mark>être</mark>	<mark>to be</mark>	<mark>je suis</mark>	<mark>l am</mark>
<mark>faire</mark>	<mark>to do</mark>	<mark>je fais</mark>	<mark>l do</mark>
lire	to read	je lis	l read
partir	to leave	je pars	l leave
prendre	to take	je prends	I take
venir	to come	je viens	l come
voir	to see	je vois	l see 23

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Year 8 Half Term 6 French Knowledge Organiser Revision and culture

The Perfect Past tense

The perfect tense is used to say what you did or have done. e.g. 'I went to France.' or 'I have been to France.'

To form the perfect tense, most verbs need the present tense of *avoir* (to have) and a **past participle.**

You make the past participle by:

For -er verbs, taking the -er off the infinitive, and adding é

For -ir verbs, taking the -ir off the infinitive, and adding i

For *-re* verbs, taking the *-re* off the infinitive and adding *u*

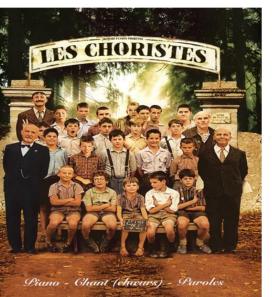
regarder (to watch)	choisir (to choose)	perdre (to lose)
j'ai regardé – I watched	j'ai choisi – I chose	j'ai perdu – I lost
il a regardé – he watched	il a choisi – he chose	il a perdu – he lost

Some verbs use *être* (rather than *avoir*) to form the perfect tense. The past participles of these verbs must agree with the subject.

aller (to go)	partir (to leave)	descender (to go down)
je suis allé(e) – I went	je suis parti(e) – I left	je suis descendu(e) – I went down
elle est allé e	elle est parti e	elle est descendu e
– she went	– she left	– she went down
nous sommes allé(e) s	nous sommes parti(e) s	nous sommes descendu(e) s
– we went	– we left	– we went down

avoir		être	
J'ai	l have	Je suis	lam
Tu as	you have	Tu es	you are
ll a/elle a	he/she has	ll est/elle est	he is /she is
on a	we have	on a	we are
Nous avons	we have	Nous sommes	we are
Vous avez	You have	Vous êtes	You are
lls ont	they have	lls sont	they are
elles ont	they have (all fem.)	elles sont	they are (all fem.)

French Infinitive	English Infinitive	Present tense	Perfect Past Tense
aller	<mark>to go</mark>	<mark>je vais</mark>	je suis allé(e)
avoir	to have	j'ai	j'ai eu
<mark>boire</mark>	<mark>to drink</mark>	<mark>je bois</mark>	j'ai bu
être	to be	je suis	j'ai été
<mark>faire</mark>	<mark>to do</mark>	<mark>je fais</mark>	j'ai fait
<mark>lire</mark>	<mark>to read</mark>	<mark>je lis</mark>	j'ai lu
partir	to leave	je pars	je suis parti(e)
prendre	to take	je prends	j'ai pris
venir	to come	je viens	je suis venu(e)
voir	<mark>to see</mark>	<mark>je vois</mark>	j'ai vu



Questions	
qu'est-ce que	what
quoi	what
quel	which
quand	when
comment	how

Recurring vocabulary

	· · · · · · · · · · · · · · · ·
il y a	there is
il n'a pas	there is not
c'est	it is
ce n'est pas	it is not
et	and
mais	but
parce que	because
car	because
aussi	also
très	very
assez	quite
trop	too
ma/mon/me	es my
ta/ton/tes	your
sa/son/ses	his/her

Les Choristes – film study

l'homme porte le garçon porte the man is wearing the boy is wearing



Year 8 - Africa

Perceptions of Africa

A perception is what we picture a place to be like even though we may not have been there.

Our perceptions might be influenced by:

- The News
- Friends and Family
- Social media

How does this image represent Africa? What perceptions do you have of Africa?

Geography of Africa

Africa is a continent made up of 54 countries.

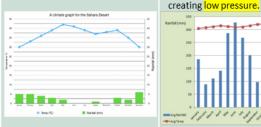
The River Nile - longest river in the world runs through from the Mountains in Ethiopia to the Mediterranean sea in the north. Over 2000 languages are spoken in Africa.

The sheer size of Africa means a variety of different biomes can be found within the continent. Varied biomes results in varied wildlife. Mountain regions can be found in the north and east, Deserts in the north and south. The largest desert is the Sahara which runs east to west across the continent. The Kalahari and Namib can be found on the south west coast. Tropical rainforests lie on and 5 degrees north and south of the equator. Grasslands encircle the rainforests to the north, east and south.

Contrasting Climates

Deserts have hot and dry climates. E.g. the Sahara desert in

Northern Africa. Here, dry air is sinking creating <mark>high pressure</mark>.



This climate graph shows the climate of the Sahara. Temperatures peak at over 40 degrees and drop to just below 30 degrees. However, at night time temperatures in the desert can drop below freezing due to lack of cloud cover. Precipitation does occur in the desert during some months of the year, but its very low amounts. By contrast equatorial climates shows very different characteristics. Precipitation occurs all year round and have high monthly amounts. Temperatures are high but have a very low range, approx. 30 degrees throughout the year.

Rainforests have hot and wet

Western Africa, along the

climates. E.g. Congo Rainforest in

equator. Here, moist air is rising



Desert Animal and Plant Adaptations

Camels have many adaptations to help them survive in Deserts. Fat stored in hump provides three weeks of food. Nostrils can close during sandstorm. Broad flat hooves spread weight so it doesn't sink into the sand.

Cacti are common in the desert as they have adapted to the hot and dry conditions. Thick waxy skin to reduce water loss. Fleshy large stems that store water. Extensive root system to soak up rain when it does fall. Spikes rather than leave to reduce water loss and protect the plant from predators.

The battle for Africa's Mineral Wealth

Conflict diamonds- Sierra Leone. - UN definition- "...diamonds that come from areas controlled by forces against fair and internationally recognised governments, and are used to fund military action against those governments."

Positives of diamonds in Sierra Leone:-

- Increases countries economy so they can spend more money on infrastructure, services etc.
- Creates jobs.
- Diamond sales generate in Sierra Leone \$125 million every year, 50% of all money the country takes. Negatives of diamonds in Sierra Leone:-
- Government couldn't control the diamond mines, so the rebels (RUF) took control of big parts of the country and started a civil war.
- Thousands were killed and many children were forced to fight.

Who is to blame for the problems? Smuggler/General Taylor/Sierra Leone government/consumer/RUF

Desertification

Desertification is when land turns into desert due to climate change and human activities. This is a huge problem in Africa as lots of farmers rely upon the land to make living. It is a particular problem in the Sahel region. The red areas on the map show the areas most at risk of Desertification.



Causes of Desertification

Deforestation:

- Trees are chopped down for fire wood.
- The soil is looser as there are no roots and is dried out easily
- The land turns into desert.

Over Grazing:

- More cattle are allowed to graze on the land
- This leaves the ground bare.
- · The sun and wind dry out the land and it turns to sand.

Climate Change has led to hotter, drier climates in areas of Africa. This means a reduced amount of vegetation can establish, stabilise soil and trap moisture.

Effects of Desertification

As the soil is less stable it is more likely to be eroded by wind. As soils become infertile, fewer crops can be grown and so food shortages can lead to famine. People are forced to migrate to other areas in search of fertile soils. Native animals also die out as vegetation loss impacts local food chains.

Responding to Desertification

Afforestation – Planting new trees stabilises soils and prevents soil erosion. Integrated farming – Limiting the number of animals kept and encouraging famers to grow crops alongside animals. Animal waste can be used to fertilise crops.

Drought resistant crops – Famers can use crops which are able to withstand drought and grow in drier conditions.

Population growth – A slower population growth would reduce the pressures on farmland. Educating people about contraception may help to reduce population growth.







Year 8 - Climate Change

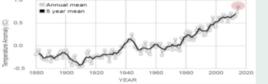
Types of Energy sources

Non renewable (can only be used once and will eventually run out)	Renewable (can be used over over again)
Oil, Coal and Gas (fossil fuels)	Wind, Solar, Wave,
Nuclear	Hydroelectricity, Tidal, Biofuel

Climate Change

Climate change is a large-scale, long-term shift in the planet's weather patterns and average temperatures. Earth has had tropical climates and ice ages many times in its 4.5 billion year history.

Climate Change is not down to one single factor. It is caused by a number of different Human and Physical factors. Climate change is often incorrectly considered to be a fairly recent phenomena solely down to humans. However studies of past climates show that it has always occurred and is not only caused by human activity.



The term global warming is used to describe the recent increase in temperature of our planet. (Graph shows temp. increase since 1980.)

Natural Causes:

Orbital Change – the Earth has natural warming and cooling periods caused by Milankovitch cycles or variations in the tilt and/or orbit of the Earth around the Sun (Wobble, roll and stretch theory).

Volcanic Eruptions - When volcanoes erupt, they release a mixture of gases and particles into the air. Some of them, such as ash and sulphur dioxide, have a cooling effect, because they reflect sunlight away from the earth. Others, such as CO2, cause warming by adding to the greenhouse effect.

Solar Flares - Sometimes areas of the Sun will suddenly appear much brighter. These bright spots are called solar flares. They are areas where a large amount of energy is released to the surface of the Sun. A huge amount of heat then escapes from the sun's surface.

Human Causes:

Population growth – An increased in the number of people leads to an increase in CO2 emissions. Contributing to the greenhouse effect. Deforestation – Trees absorb CO2 in photosynthesis and act as sponges for CO2. Removing trees has led to more CO2 in the atmosphere. Fossil Fuel Consumption – The consumption of fossil fuels (coal/oil /gas) releases large amounts of carbon emissions in the atmosphere which means more heat being trapped.

Agriculture – Trees are often removed to make more land suitable for farming. Cattle ranching produces large amounts of methane.

What is the Greenhouse Effect?

The greenhouse effect is a naturally occurring effect. It happens when thermal energy is trapped in the earths lower atmosphere by greenhouse gases such as carbon dioxide (CO2), methane, nitrous oxide.

-Energy from the sun bounces off the earth's surface as some of this energy is absorbed by the gases forming the atmosphere. Roughly 30% of this absorbed energy is then radiated back towards the earth.

-This effect causes the earth's average temperature to be around 15°C.

-Without the natural greenhouse effect, the earth's average temperature would be around -18°C. This would be far too cold to sustain many forms of life.

-Due to human actions such as population growth, deforestation, fossil fuel consumption and agricultural practices, there has been a build up of greenhouse gases within the atmosphere (acting like blanket) which has led to less heat escaping. This is known as the Enhanced Greenhouse Effect and has led to an increase in average global temperatures and climate change.

Effects Of Climate Change

The potential effects of climate change are wide and varied. When examining them we should consider the; social, economic and environmental impacts. Social – impacts upon people Economic – impacts upon the economy Environmental- impacts upon the environment e.g. Wildlife

Negative Effects

and

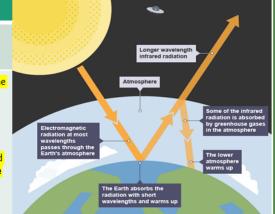
- Ice sheets are melting
- Sea levels rising
- Reduced rainfall in the Amazon rainforest
- Stronger hurricanes in the Caribbean
- Ski resorts in the Alps close down due to lack of snow
- Increased flooding in Bangladesh
- Increased threat of bush fires in the USA
- Species migration changes
- Melting Permafrost in Russia's Tundra environments

Positive Effects

- Increased rice crops in China
- South Australia can grow more crops

Politics and Energy

Countries rely on other countries to get energy resources e.g. Gas and Oil. Many European countries get a large % of their Gas from Russia e.g. Finland, Latvia and therefore need to maintain a positive relationship with them to continue their gas supply. In recent years Gas has been cut off to parts of Europe because of tensions and political issues with Russia.



Responding to Climate Change

There are two main categories when we look at responses to climate change. Adaptation is when we change our lives and respond in order to cope with any changes happening due to climate change.

Mitigation is when we plan ahead and try to tackle the causes of climate change

Adaptation

- Building more flood defences
- Changing the types of crops grown
- Using drought resistant food crops
- Turning ski resorts into mountain
- bike resorts

- Insulating homes - International agreements

- Afforestation

- Electric cars

- Waste recycling

Impacts of oil extraction on different countries

Dubai, United Arab Emirates.

Before 1966 it was a small, poor fishing village. In 1966 they discovered oil. This stimulated the economy and the city grew enormously. Oil provides 1/3 of all of Dubai's money. The remaining 2/3 of the money is linked to oil indirectly, particularly through tourism. Money made through the oil industry has been spent on developing the huge infrastructure projects continue to develop once the oil runs out.

Niger Delta, Nigeria.

Though oil provides 98% of Nigeria's money, it has many negatives. One of the main negatives is that Shell oil who drill the oil in Nigeria allow oil spills to pollute the environment on a daily basis. This creates job losses as fisherman lose their jobs as all the fish die, and local vegetation e.g.mangroves are poisoned as well. Local terrorists groups are active in the area fighting against the oil companies that pollute the environment. However, Shell does provide local people with jobs, electricity, water and healthcare.

Mitigation

- Renewable energy = wind turbines, solar panels

Fracking in the UK

Fracking, is a technique for recovering gas from shale rock. It involves drilling into the earth and directing a high-pressure mixture of water, sand and chemicals at a rock layer, to release the gas inside. This technique is controversial in the UK due to the small tremors it can create, but it could be used here in the future to help resolve our energy issues.

Which European Countries Depend on Russian Gas?

Italy ()

France () Netherlands 🚍 📰 1

Romania 🚺 📰 1 Georgia 🕂 📕 6 Ireland () 0

Ukraine 🛑 0

statista 000

and tourist resorts/attractions. This is a sustainable approach, allowing Dubai to

Year 8 Half-Term 5 German Knowledge Organiser

Unit 5: Gute Reise – meine Zuhause und meine Stadt

Wo wohnst du?

Ich wohne... in einem Dorf in einer Großstadt in einer Stadt an der Küste in den Bergen auf dem Land in einer Wohnung in einem Einfamilienhaus in einem Doppelhaus in einem Reihenhaus auf einem Bauernhof

Die Zimmer

ein Schlafzimmer ein Badezimmer die Toilette die Küche das Wohnzimmer der Keller das Esszimmer der Garten die Garage

Möbel in meinem Zimmer

ein Bett eine Lampe einen Kleiderschrank eine Kommode einen Fernseher eine Spielkonsole einen Schreibtisch

I live... in a village in a city in a town on the coast in the mountains in the countryside in a flat in a detached house in a semi-detached house in a terraced house on a farm

Where do you live?

Rooms a bedroom

a bathroom

the toilet the kitchen the living room the cellar the dining room The garden the garage

Furniture in my room

a bed a lamp a wardrobe a chest of drawers a TV a games console a desk

Grammar

Using Es gibt (there is / there are) OR ich habe (I have)

After these 2 phrases, you need to use THE ACCUSATIVE in GERMAN

Es gibt <u>einen</u> Garten /ich habe <u>einen</u> Kleiderschrank

Ich habe eine Toilette / es gibt eine Kommode

Es gibt ein Badezimmer / ich habe ein Bett

Prepositions and what they do

Prepositions are the little words which describe the position of an object / person: Auf = on top of In = in(side)

Unter = under Zwischen = between



when you use one of these words, the word for "the" changes: der (m) = dem die (f) = der das (n) = dem die (pl) = den

Was machst du zu Hause? What do you do at home?

machen	to do
fernsehen (sep)	to watch TV
schlafen	to sleep
kochen	to cook
essen	to eat
arbeiten	to work
lernen	to learn
spielen	to play
tanzen	to dance
singen	to sing
radfahren (sep)	to ride a bike

Present tense reminder:

Take the infinitive e.g machen Chop off the -en Add the endings: ich machE l do du machST you do (informal) er machT he does sie machT she does wir machFN we do sie machEN they do Sie machEN you do (formal)

Germa

Year 8 Half-Term 5 German Knowledge Organiser Unit 5: Gute Reise – meine Zuhause und meine Stadt

In der Stadt

Es gibt ...

Es gibt ein/eine/einen ... Es gibt kein/keine/keinen

in der Nähe von ... in der Nähe ... der Bahnhof(-"e) der Imbiss(-e)/die Imbissstube(-n) die Kegelbahn(-en) das Kino(-s) die Kirche(-n) der Marktplatz(-"e) der Park(-s) das Schloss(-"er) das Schwimmbad(-"er) die Eisbahn(-en) der Fischmarkt(-"e)

der Radweg(-e) das Sportzentrum (die Sportzentren) der Stadtpark(-s) der Wasserpark(-s)

das Kindertheater(-)



In town There is /There

There is/are a

railway station(s)

snack stand(s)

bowling alley(s)

market square(s)

swimming pool(s)

cinema(s)

church(es)

park(s)

castle(s)

ice rink(s)

children's

theatre(s)

cycle path(s)

sports centre

water park(s)

(sports centres)

city/town park(s)

fish market(s)

There isn't/aren't ...

are ...

near to

nearby

Ich gehe einkaufen. Ich möchte ... Ich möchte ... kaufen. Haben Sie ...? Kann ich dir helfen? Sonst noch etwas? alles zusammen

Verkaufsgespräch

Souvenirs

der Aufkleber das Freundschaftsband die Kappe der Kuli das Kuscheltier die Postkarte der Schlüsselanhänger die Tasse das Trikot

Wie viel kostet ...?

Wie viel kostet das?

Es kostet €16.

Sales conversation I am going shopping. I would like ...

I would like to buy ... Do you have ...? Can I help you? Anything else? all together

Souvenirs

sticker friendship bracelet (baseball) cap biro cuddly toy postcard key ring muq/cup (football) shirt How much does ... cost?

It costs 16 Euros

How much does it cost?

GENERAL "TRANSFERABLE" VOCABULARY

prima = great

Guten Tag = good day Bitte = please Danke schön = thank you Auf wiedersehen= goodbye! gut = good / well Tschüss = bye! 0 null 1 Eins am ersten 2 Zwei am zweiten 3 Drei am dritten 4 Vier am vierten 5 Fünf am zehnten 6 Sechs am neunzehten 7 Sieben am zwanzigsten 8 Acht 9 Neun 10 Zehn 11 Elf 12 Zwölf 13 Dreizehn 14 Vierzehn 15 Fünfzehn Freitag= Friday 16 Sechzehn 17 Siebzehn 18 Achtzehn 19 Neunzehn 20 Zwanzig 21 Einundzwanzig 22 Zweiund zwanzig 30 Dreißig 31 Einunddreißig und = and aber = but Juli = Juli oder = or August = August auch = also September = September Oktober = October November = November Dezember = December

Hallo = hi

toll = great wunderbar = wonderful sehr gut = very good nicht gut = not good Schlecht = bad on the first on the second on the third on the fourth on the tenth on the 19th on the 20th am einunddreißigsten on the 31st Die Tage der Woche = days of the week Montag = Monday Dienstag = Tuesday Mittwoch = Wednesday Donnerstag = Thursday Samstag = Saturday Sonntag = Sunday das Wochenende = the weekend Die Monate (months) Januar = January Februar = February März = March April = April Mai = May Juni = June

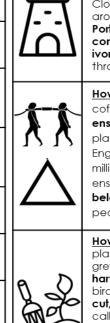
Year 8 Half-Term 5 German Knowledge Organiser Unit 5: wo ich wohne Sentence Builders

Wo wohnst du? Where do you live?	Ich wohne in I live in	einer Stadt/auf den Land/in den Bergen/an der Küste/in einer Großstadt/in einem Dorf in einem Bungalow/in einem Einfamilienhaus/in einem Doppelhaus	Ich finde es toll/ruhig/schön/beschäftigt/ friedlich/klein/groß/kalt/ warm
Was gibt es in deinem Haus? What's in your house?	In meinem Haus gibt es In my house there is	ein Schlafzimmer/ein Badezimmer/ein Wohnzimmer/eine Toilette/ eine Küche/eine Garage/ einen Garten	Ich mag mein Haus (nicht), weil es ist I (don't) like my house because it's
Was gibt es in deinem Zimmer? What's in your room?	In meinem Zimmer gibt es In my room there is	Ein Bett/eine lampe/einen Schreibtisch/eine Kommode/ einen Kleiderschrank/einen Fernseher/eine Spielkonsole	Ich mag mein Zimmer (nicht), weil es ist I (don't) like my room because it's
Was gibt es in deine Stadt? What's in your town?	In meiner Stadt gibt es einen/eine/ein In my town there is a aber es gibt keinen/keine/kein but there's not a	Bahnhof/Bushaltestelle/Kino/ Eisbahn/Kegelbahn/ Imbissstube/Kirche/ Marktplatz/Park/Schloss/ Sportzentrum/Schwimmbad	Ich mag meine Stadt (nicht), weil es ist I (don't) like my town because it's

<u>ermar</u>

Year 8: Unit 4; What role did Britain play in Transatlantic slavery?

	Timeline of main events1823	Π
14 th – 16 th centu ry	The Mali Empire and the kingdom of Benin are among the dominant powers in West Africa trading gold, copper and ivory with Arab,African and even European nations.	
15 th - 16 th centu ry	British and European traders arrive in Africa and begin to traffic African people to the Americas in the beginning of Transatlantic Slavery.	
1787- 1794	The abolitionist, Thomas Clarkson travels 3,000 miles around Britain educating people about the horrors of Slavery	
1789	A former enslaved person, Oladuah Equiano publishes his book, "The interesting narrative" which tells of the true horrors of the middle passage and plantation life.	
1791	The Haitian Revolution begins in the French colony of Saint Domingue, led by Toussaint L'ouverture, an organised and skilled military leader and former enslaved person.	
1804	Following L'ouverture's death, the rebels in Saint Domingue are victorious and Haiti becomes an independent country.	
1807	Transatlantic Slavery is made illegal, the British West African Squadron is set up to monitor illegal enslavement and trafficking.	
1823	The Anti Slavery Society is set up in London, although trading enslaved people is now banned, enslavement has survived in British colonies.	
1831	A serious revolt in Jamaica convinces many British traders that enough is enough, slavery is starting to look like too risky a way of making money, it is also becoming a less profitable and efficient way of growing crops.	
1833	Slavery is abolished completely, however, it has persisted to this day. Cocoa farms and Coltan mines in African and South America still use enslaved workforces. Construction workers in Qatar and even some workforces in the UK at hand car washes and nail bars are given so few rights and such poor pay, they are effectively enslaved.	



What were West African Kingdoms like before the the arrival of Europeans? In the 14th Century, West Africa was dominated by the Mali Empire, which had grown by trading salt, gold and slaves. In the 14th Century, the Empire was ruled by Mansa Musa, thought to be history's richest person. Mansa Musa, famously gave away so much gold on his pilgrimage to Meccain 1326 that he caused a spell of inflation in the economy of Cairo. Musa helped spread Islam throughout his West African territories, building mosques, universities and developing the city of Timbuktu into a centre of learning and culture. After his death in the late 14th Century, the Mali Empire went into decline. Mali people did not use written history, instead they passed on stories and traditions through Griohs, special singers and storytellers who mixed myth and history together in songs which are still performed today, this means that Mali history is difficult to understand for Western historians. Close to Mali, was the Kingdom of Benin, which rose in prominence and wealth in modern day Nigeria from around 900-1900. Benin was one of the earliest African kingdoms to trade with Europeans, contacting Portuguese traders in the 14th Century. In the late 1800s the British brutally destroyed Benin city and conquered the territory of the entire kingdom, coveting their access to valuable resources like gold and ivory. The British stole the Benin Bronzes, important decorative metal artworks that told the countries history through sculpted images. Many of these stolen treasures have still not been returned to their homeland.

How did the Transatlantic triangle function?: Europeans wanted more tobaccoto smoke, sugar for tea and coffee, and cotton to make cloth. So they sent guns, hardware and cloth to West Africa in exchange for enslaved people that would then be shipped to the West Indies and North America to work on the plantations to meet the European demand for their crops. These crops would then be shipped back to England and Europe, and the triangular trade would begin again. The Middle Passage: An estimated 12-15 million Africans were shipped across the Atlantic, on a route known as the Middle Passage. 10-20% of enslaved people died on this journey due to the horrendous conditions on the ships. People were stored below decks as cargo, lying down and shackled together. In total, 2 million died on the journey. Few people in Europe would have known how enslaved people were treated on the Middle Passage.

How were enslaved people treated on plantations?: Enslaved people were auctioned to work on plantations, which were huge farms that focus on growing just one crop. Plantations across the Americas arew rice, sugar, cotton and tobacco. Fit and healthy Africans were made into field slaves; planting and harvesting crops, while the young, elderly or sick would be given work cleaning, guarding or driving away birds. Sugar plantations were especially brutal, as sugar cane begins to lose it's sweetness as soon as it is cut, meaning the enslaved people were driven to work as fast as possible. The people in charge were called overseers, often an enslaved person would be promoted to this role, a strategy devised by plantation owners to turn the enslaved against each other. Domestic slaves cooked and cleaned in their owners home, often these were women and were sadly, were often subjected to sexual abuse. Punishments for disobedience included floggings, mutilation and being tied up and left to die. Living conditions were poor, enslaved people lived in wooden shacks that were overcrowded and often didn't have floors. It was common for many families to live together in the same shack.



How did the British Government protect slavery?: British pro slavery Conservative politicians fought and campaigned to maintain and protect the trade. Some Christians claimed that an Old Testament story called "The Curse of Ham" taught that some people were cursed to work for others, also a letter written by the apostle, Paul was understood as saying that servants should be obedient to their masters. Both of these passages are now understood to have been misread (probably on purpose) by those who benefitted from slavery. The discredited science of phrenology was also popular in the 19th century, claiming that African people were naturally less intelligent than Europeans and that this could be proven by the shape of a person's skull. Finally, many rich English people benefitted from slavery, and used their wealth and influence to fight against it's abolition. Edward Colston for example, donated £71,000 to charity and founded schools and churches in the city of Bristol. He was given a statue in the city and for many centuries, it was argued that his charitable work was only possibly because of his role in enslavement, until 2020, when his statue was forcibly removed and dumped in a river by anti slavery protestors.

	How did enslaved people resist?: There were thousands of smaller acts of resistance against enslavement		<u>KEY TERMS</u>		
	that are not recorded in historical evidence, such as pretending not to understand instructions , working intentionally slowly or taking more food than allowed . Enslaved people also used cultural resistance through language, music and dance, to keep alive aspects of their African heritage including the creation of "slave hollers" , songs that would be sung during working hours to create a sense of unity and togetherness. Violentresistance also took place, the Maroons were a group of former enslaved people who had escaped. They lived in the Blue Mountains of Jamaica and assisted others in escaping and joining their community. They were led by a woman known as 'Nanny'. They caused such a problem for the British that soldiers were sent in to try to defeat them. Eventually, they were imprisoned and shipped to British colonies in Nova Scotia (Canada) and Sierra Leone (West Africa). The Haitian Revolution (1791-1804) : From 1793-1802, Toussaint Louverture led a revolt in Saint-Domingue (modern day Haiti). He was a former enslaved person who had been granted his freedom by his master. He was organized and skillful as a military leader and turned untrained rebels into a serious fighting force. He was imprisoned by the French in 1802 and died a year later. Despite this, the revolution continued and the enslaved people	Transatlant ic slavery	A form of slavery that exited C15-C18 and involved trafficking African people to the Americas to grow crops for trade to enrich European empires.		
		Enslaved person	A person who has been enslaved, a more accurate and humanising than the label, "slave."		
Bri 18 fo a		Plantation	A large farm that focused on growing one crop, e.g. sugar, cotton, tobacco. Plantations often used enslaved workforces.		
	defeated their colonial rulers in 1804. Haiti was declared their country.	Middle Passage	The middle leg of the transatlantic triangle, from Africa to the Americas.		
	How did abolitionists fight against slavery?: The slave trade in Britain was abolished in 1807 and slavery itself was banned in 1833. One of the reasons was due to the Enlightenment , when some writers and philosophers began to question old traditions and ideas, as well as the idea that people have a right to liberty and equality. One man was Granville Sharp , a lawyer who campaigned from 1787 and set up the Abolition Committee of 12 influential men. Another important figure was Thomas Clarkson : He realized the		A whip used to punish disobedience on board middle passage ships, had nine pronged tails and could caused agonising punishment.		
	campaign needed public support and so he needed to educate people about the horrific realities of the slave trade. He interviewed over 20,000 people connected with the slave trade and recorded their stories. These were made public with a huge propaganda campaign. Between 1787 and 1794, he travelled 35,000 miles around Britain, holding meetings and giving lectures. Many people were shocked and	Speculum Oris	A torture device used to force feed enslaved people , many would go on hunger strike.		
appalled I enslaved p helped the societies w	palled by what they heard. Olaudah Equiano published his autobiography in 1789, he was a former slaved person and gave an honest account of the middle passage and life on a plantation which lped the public understand that enslaved people were not just property. Numerous anti-slavery cieties were formed by nonconformist groups who used religious arguments in favour of abolition.	Phrenology	A discredited pseudoscience claiming that a person's character could be judged by the shape of their skull, used to justify the enslavement of African people.		
	People proudly wore abolition medallions and brooches. Members of the public put pressure on MPs, most commonly through petitions that were sent to Parliament. By 1792, Parliament received over 500 different abolition petitions per year. Many also campaigned through the use of a sugar boycott. This added economic pressure onto MPs.	The curse of Ham	A wilfully misinterpreted section of the Old Testament, used to claim that some men were destined to work for others and in turn, to justify enslavement.		
	How and why was Transatlantic slavery made illegal?: Slavery could not be abolished without Parliament passing a law. William Wilberforce was an MP who was against slavery. He was a powerful speaker and skillful politician who worked to convince other MPs to join the abolition cause. However, he was met with a lot of opposition in Parliament. Some MPs were plantation owners themselves and profited from the trade triangle. Others feared abolition would ruin the British economy. Yet Wilberforce introduced an abolition bill every year between 1790 and 1806, but they kept being defeated. MPs needed to be convinced that change had to happen. The final push: It became impossible for MPs to ignore the public outcry against the transatlantic trade. Many MPs came round to the idea, although many would have done so to	Slave Holler	A song created by enslaved people to sing on plantations, often involving call and response lyrics, built a sense of culture and community among the enslaved.		
	protect reputations and positions. In 1807, Wilberforce again introduced a bill to parliament to abolish the trade. After a 10-hour debate, the bill passed. The British transatlantic trade was abolished. The British navy quickly established the West Africa squadron to stop ships illegally trafficking enslaved people from Africa. Still, those who were already enslaved were not yet free, and campaigners continued to fight to abolish slavery completely. In 1823, the "Anti Slavery Society" was set up in London, their work, along with a book	Boycott	Refusing to fund or buy a certain product or service as a protest against it.		
	called "Capitalism and Slavery " by Eric Williams, arguing that slavery was no longer profitable, and a serious revolt in Jamaica in 1831, led to the final abolition of slavery in 1833.	Abolition	The act of abolishing something, i.e. making \mbox{it}^{31} illegal.		

History

Year 8 History Knowledge Organiser Democracy and Women's Rights

'Angel in the House': Despite the 1884 Act which expanded the franchise, only one in three men had the right to vote. For some men and all women, equality was a long way off. For women living in Victorian England they had a very clear role. The role of a woman was to be subservient to men and fulfil the role if a house wife and mother. In the mid 19th century, married women were not recognised as being legally separate people from their husbands. Therefore, all the property owned before her marriage became his as did all of her earnings once she was married. Many women led a very sheltered life controlled by their husbands. Women's

Changes in society: Increased prospectus for women: The lives of women had been dictated to by having little freedoms or opportunities. However, in the late 1800s during the peak of the Industrial Revolution, job prospects for women began to increase. Women worked in clerical and office jobs particularly in government departments as well as in shops as shop assistants. The Education Acts of 1870, 1880 and 1891 meant that elementary education became free and compulsory, thus creating jobs for teachers and ensuring girls could read and write.

Leisure and Fashion: Women who worked wanted to have fun in their time off. Following the Factor Act of 1874 and the Bank Holidays Act of 1871, women began to participate in more leisure activities. The production of the bicycle in 1885 was a turning point for women, not only because it became a hobby, but women could not travel freely wherever they wanted. Cycling also impacted women's fashion. The stereotypical bustles worn by women were not safe to wear whilst cycling. Women began to wear shorter skirts and even loose-fitting knee length trousers.

Campaigns: The NUWSS organisation was established in 1897 with the aim to gain votes for women. Led by the Suffragists, this organisation used legal means to get the vote through holding meetings, marches and creating pamphlets. In 1903 was the emergence of the WSPU led by Emmeline Pankhurst with the same desire to get women the vote. This organisation used very different methods, such as holding public demonstrations, chaining themselves to railings, refusing to pay taxes and even hid in the Houses of Parliament so that they could disrupt debates. The WSPU used more militant action and in 1910 began attacking property, smashing the windows of shops, offices and government buildings as well as burnt down houses.

Key Individuals



Unsuccessfully ran for increasingly militant.

setting fire to a post

box. By 1911, become

that militancy was

counter-productive.

in 1912 for fear of

Parliament in 1918.

being arrested again.

times, went on

in 1928.

hunger strike and

was force fed. Died

Suffrage	The right to vote in political elections.	
Suffragette	A campaigner for women's suffrage willing to undertake militant action or break the law.	
Suffragist A campaigner for women's suffrage who believes in constitutional methods of campaigning.		
WSPU	Women's Social and Political Union which was formed when Emmeline Pankhurst found disillusionment with the progress of the NUWSS - 'Deeds not Words' was their slogan.	
NUWSS	The National Union of Women's Suffrage Societies was formed in 1897 and brought together many smaller suffrage organisations. The NUWSSS's methods was non-confrontational and constitutional.	
Militant	Aggressive and violent behaviour in pursuit of a political cause, favouring extreme or confrontational campaign methods.	
Petition	A formal written request or application, especially one signed by many people to a particular individual, for example, the government.	
Pacifist	An individual who disagrees with war on principle.	
Enfranchisement	To be granted the vote or the state of having a vote.	
Constitutional	A peaceful legal way of campaigning.	
Manifesto	A public declaration or proclamation stating the aims and methods of a campaign group.	
Arson	The act of deliberately setting fire to a property with a view to causing extensive damage.	
Cat and Mouse Act	Permitted suffragettes on hunger strike to be released but re-arrested once well again to complete their sentence.	

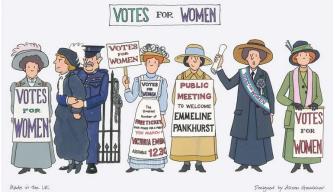
History

	Key Events
1897	NUWSS formed. Millicent Fawcett is leader
1903	WSPU is formed by Emmeline Pankhurst and daughters.
1905	Militant campaign begins - Christabel Pankhurst and Annie Kenney arrested.
1908	Mass rally in London - 300,000 to 500,000 activists attend. Window smashing using stones with written pleas on them.
1909	Hunger strike and force feeding starts. Marian Wallace Dunlop becomes the first hunger striker.
1913	Militant bomb and arson campaigns and increasing arrests which results in the passing of the 'Cat and Mouse Act' under which hunger strikers are temporarily released then rearrested to prevent them dying in police custody.
1913	Emily Wilding Davison attempts to pin a Suffragette scarf onto the King's Horse at the Derby. She is struck by the horse and dies four days later.
1914	World War One starts. Suffragette leaders urge women to join the war effort. NUWSS continues to campaign for recognition for their work.
1918	The Representation of the People Act is passed, allowing men over 21 and women over 30 to vote.
	Significance of WWI
mother	War One: Before the outbreak of WWI, women were expected to carry out the traditional role of a and housewife. When war broke out in August 1914, the WSPU and NUWSS stopped their ning and supported the war effort. When conscription was introduced in 1916 and more men joined

mother and housewife. When war broke out in August 1914, the WSPU and NUWSS stopped their campaigning and supported the war effort. When conscription was introduced in 1916 and more men joined the armed forced, women were called upon to fill the roles of men. Women across England joined the Women's Land Army to work with farmers. Women also worked in the armed services as nurses, cooks, clerks and ambulance drivers. Women also worked in gas works, breweries, for bus, train and tram companies and even as chimney sweeps and in laboratories. In 1915 there was a munitions crisis and the government began a campaign to get women to work in munitions factories. A highly dangerous job, women showed their support for the war and by 1918 950,000 women worked in munitions factories.

Road to Democracy

<u>Consequences of WWI:</u> Despite women's efforts throughout WWI, many women returned to domestic roles once men returned home. However, there were significant gains for women. There was an increase in women entering prestigious jobs, for example, 77 women had became barristers by 1927. The growth in industry provided more jobs for women particularly in the Midlands and the South East. Finally, in 1928 the Equal Franchise Act gave he vote to all women.

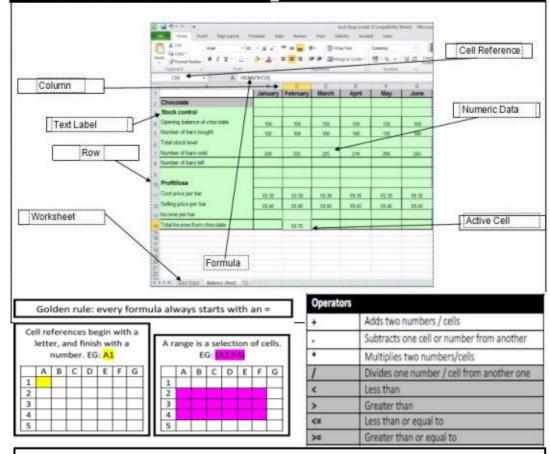


History

Spreadsheets are used to store information and data. Once we have our data in a spreadsheet we can perform powerful calculations, make graphs and charts and analyse pattern/trends in the data. Once the data is formatted it becomes information.

Other uses for spreadsheets -

- Modelling and Planning
- Finance and Budgeting
- Predictions / Simulations
- Calculations
- Creating charts and graphs



At Home Imagine that you are creating a spreadsheet to keep track of your spending – include pocket money, money received as gifts etc.

 Could you use a function to calculate how long it would take you to save up for something that you want? Could you create a test for someone else who has completed this unit to check their knowledge of the key terms learnt? Could you create your own 'house style'? What font would you use? What colour scheme?

Knowledge Organiser - Spreadsheets

What is a Function?		A function is a standard routine used to perform common tasks. It represents a complex formula that uses reserved words e.g. VLOOKUP, IF. A function performs a specific set of operations on its input values to produce a single output value.			
What is a Formula?		Using formulas in spreadsheets can allow you to quickly make calculations and get totals of multiple cells, rows, or col- umns in a spreadsheet.			
Conditional Formatting		is a tool that allows you to apply formats to a cell or range of cells, and have that formatting change depending on the value of the cell or the value of a formula. For example, you can have a cell appear bold only when the value of the cell is greater than 100.			
Common Formulas/Functions	= SUM		Adds a range of cells together		
	= AVER	AGE	Finds an average for a range of cells		
	= MIN		Returns the smallest value in range		
	= MAX		Returns the highest value in a range		
Fo	= COUN	г	Counts cells if they meet a condition		
IF one of the logical functions, to return one value if condition is true and another value if it's false. For example: =IF(A2>B2,"Over Budget","OK") =IF (A2=B2,B4-A4,"")					
Count IF		NTIF (Where do you want to look?, What do ant to look for?)			
Auto SUM		automatically enters a formula (that uses IMfunction) to sum the numbers			
= COUNT Counts cells if they meet a condition			they meet a condition 34 34		

Selection is used to allow the program to make a choice and take a different path.

The keywords used in Python are:

if - checks if the **condition** is true, if so the program runs the indented code below it.

elif - if the first if fails then this elif condition is checked, there can be multiple of these.

else - if all if and elif statements are not true the the code indented below else will run.

Example:

colour - input("Enter your favourite colour"); if colour == "Red": print("Reminds me of tomatoes"); elif colour == "Blue": print("Reminds me of the sea!"); else: print("If it ain't Red or Blue then I ain't interested");

Variables are simply a place on the computer's memory that is given a name in order for it to remember it.

In Python you create a variable by writing the name of the variable followed by an =.

Examples: name = "Spongebob"; age = 14 To **print** out a statement or a **variable** we use the code below:

Printing a new message: print("Hello World");

Printing the value of a variable:
print(x);

Printing a message with variables included: print("Hello",name,"your are",age,"years old today");

Key Words:

Algorithm: A set of instructions or code used to solve a problem.

Syntax: The rules of the programming language that need to be followed in order for it to work.

Variables: Data that is stored in memory that is likely to change.

Program: Code compiled together to perform a specific function.

String: A Variable data type that can store a combination of letters, characters and numbers.

Integer: A Variable data type that can store whole numbers.

Float: A Variable data type that can store decimal numbers.

Boolean: A Variable data type that stores either TRUE or FALSE.

Knowledge Organiser Computer Science Programming

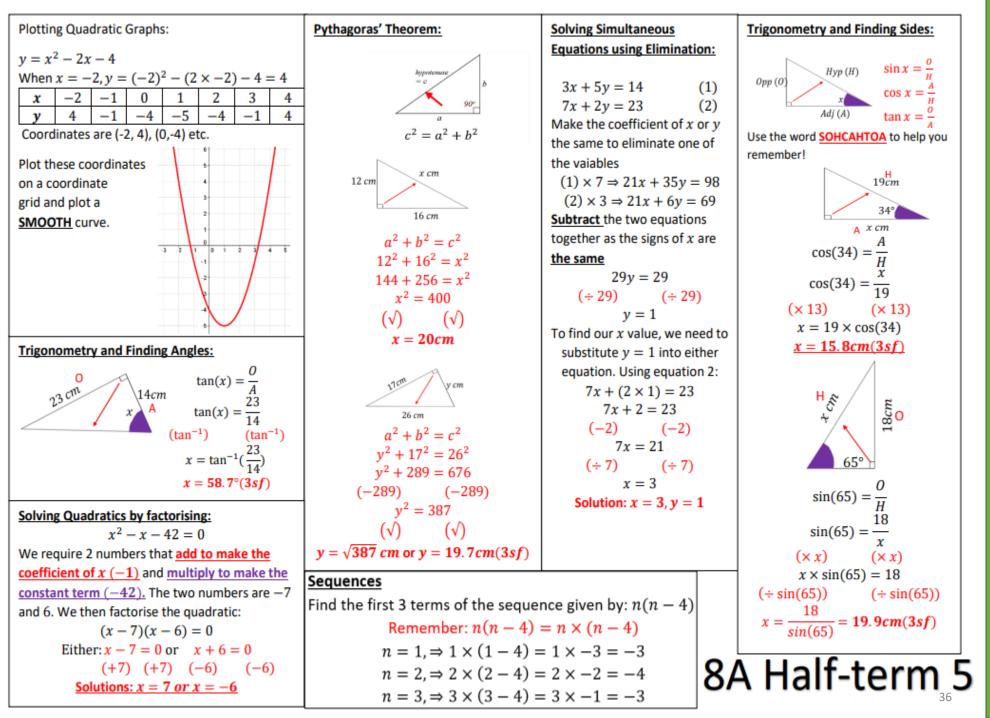
To allow your Python program to get information from the user you will need to use the **input** command. Make sure you use the correct command for what you are asking for.

String inputs (such as a name): input("Enter your name");

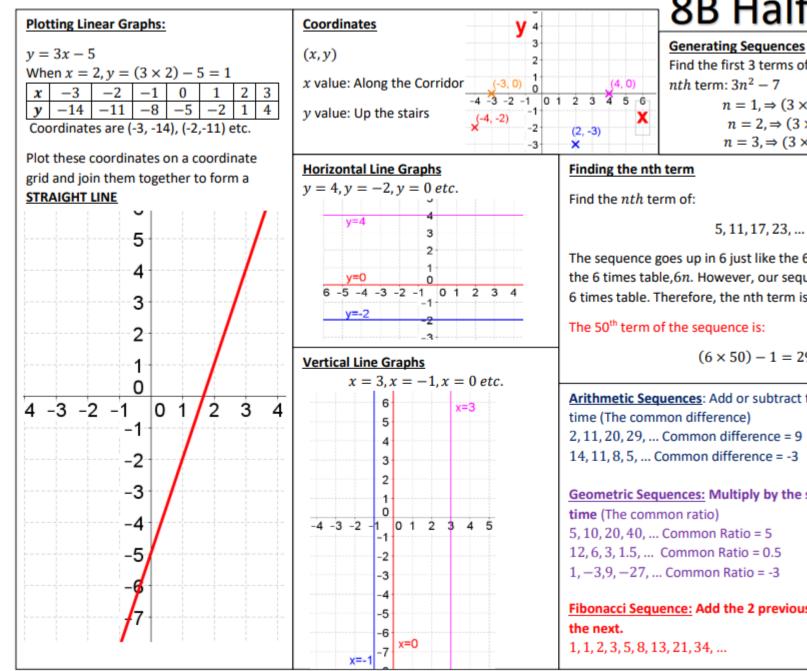
Integer Inputs (for whole
number responses):
int(input("What is your
age?"));

Float Inputs (for decimal number responses):

float(input("What is your shoe
size?"));
35



Maths



8B Half-term 5

Find the first 3 terms of the sequence with $n = 1 \Rightarrow (3 \times 1^2) - 7 = -4$ $n = 2 \Rightarrow (3 \times 2^2) - 7 = 5$ $n = 3 \Rightarrow (3 \times 3^2) - 7 = 20$

The sequence goes up in 6 just like the 6 times table. We write the 6 times table, 6n. However, our sequences if 1 less than the 6 times table. Therefore, the nth term is: 6n - 1

 $(6 \times 50) - 1 = 299$

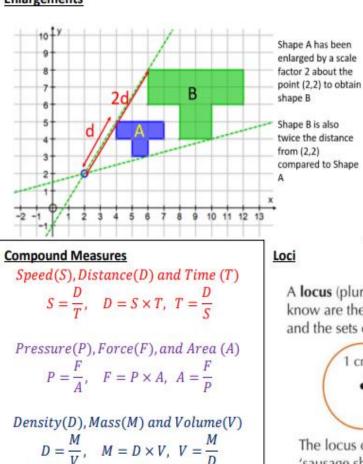
Arithmetic Sequences: Add or subtract the same number each 2, 11, 20, 29, ... Common difference = 9 14, 11, 8, 5, ... Common difference = -3

Geometric Sequences: Multiply by the same number each

Fibonacci Sequence: Add the 2 previous terms together to get

Maths





Units:

Speed: m/s, km/h, mph Pressure: N/m², N/cm² Density: kg/m³, g/cm³

> 8A Half-term 6

Maps and Scales



The map to the left has a scale of 1:1000 This means that 1cm on the map represents 1000m in real life.

The blue line is 3.03cm. In real life the distance between the 2 points is given by

- 1cm:1000m -3.03cm: 3030m ×3.03 ×3.03

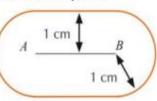
Buckingham Palace and Sloan Square are 3.03km apart.

A **locus** (plural **loci**) is a **set of points** which satisfy a particular condition. The types of loci you need to know are the sets of points that are a **fixed distance away** from a point or a line (or another kind of shape), and the sets of points that are **equidistant** (i.e. the **same distance**) from two points or two lines.



The locus of points that are a fixed distance, e.g. 1 cm, from a **point** *P* is a **circle** with radius 1 cm centred on *P*. To construct this, set your **compasses** to the given distance and draw a circle around the point.

The locus of points that are a fixed distance from a **line** *AB* is a 'sausage shape'. To construct this, use your compasses to draw the ends, which are **semicircles**, then join them up with your ruler.



f equal distances

perpendicular

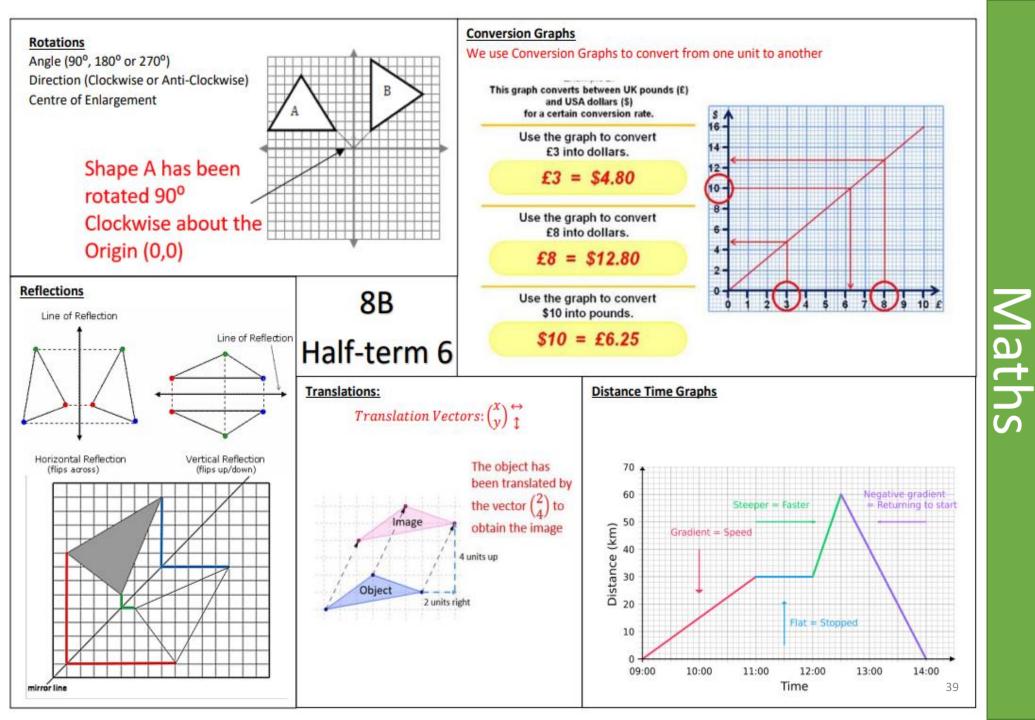
The locus of points equidistant from **two points** *A* and *B* is the **perpendicular bisector** of *AB* (see page 307).

The locus of points equidistant from **two lines** is their **angle bisector** (see page 308).

Maths

angle bisector

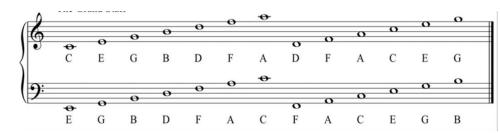
equal distances



Y8 Music HT5&6 – The Blues Harmony/Tonality and Structure

Y8 Music HT5&6 – The Blues Harmony/Tonality and Structure





Harmony - the chords that sit underneath a melody

Tonality - The type of harmony in a piece of music. Can be major or minor

Key - the group of notes/pitches that the music revolves around

Tonic – the note that the pitches are centered around 'the home note'

Chord – Notes played together on a piano or a guitar

<u>Chord numbers</u> – each chord has a Roman numeral to describe it's relationship to the tonic

<u>Structure</u> a description of the sections of a piece of music:

•**Verse:** A repeated section of a song that usually features a new set of lyrics on each repetition.

•<u>Chorus:</u> A repeated section that contains the main musical or lyrical ideas of the song.

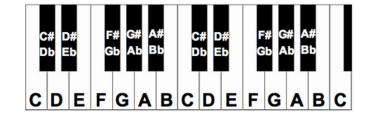
•Instrumental: A part of the song with no singing, such as a guitar solo.

•<u>Intro:</u>Short for introduction, this is a short instrumental passage at the start of the song.

•Bridge Connects different sections eg verse and chorus

•<u>Middle 8</u> A section that has a different melody to the verse and chorus •Outro short ending section, usually instrumental





A **semitone** (or half step) is the distance in pitch between a note and its nearest neighbour on a piano keyboard. For example, C is next to C sharp/D flat.

A **tone** (or whole step) is an interval of **2 semitones added together**. For example, the interval between C and D is a tone because the note C sharp/D flat is between them.

Triads have a ratio of semitones - +4, +3. To construct a triad, start with the play-skip-play-skip-play to get the note names, then use the ratio to check if any black keys are used

Christian Practices Religion, Philosophy & Ethics

Key Terms	Definition
Sacraments	Outward signs of blessings from God. Each sacrament involves an important ceremony.
Baptism	A ceremony which welcomes someone into the church and blesses them by God removing their sin.
Pilgrimage	A journey religious people take to a holy place or a place of religious significance.
Priest	A priest is the leader of a Church. Other names for a priest are vicar, minister or pastor.
Incarnation	Means "made flesh" - God was made flesh in the person of Jesus.
Resurrection	Means being raised from the dead. Christians believe Jesus resurrected.
Saviour	Jesus is believed to be the savior – it is through His teachings, death on the cross and forgiveness of sins that Christians can go to heaven

Roles of the Church

A Church, with a capital C, is a community of Christians. Many Christians believe they have a role to play when

they belong to a Church. Christians may participate in activities such as...

- Attending church services
- Attending Bible discussion or prayer groups
- Supporting Christian youth clubs
- Attend social gatherings that encourage others to join the Church community
- Supporting outreach work such as running food banks or offering advice to those in need
- Charity work
- Volunteer in the church as a deacon or in the choir

"Whoever believes and is baptized will be saved" Jesus

"Love the Lord your God... (and) love your neighbour" Jesus

"For God so loved the world that he gave his one and only son, that whoever believes in him shall.. Have eternal life" John (Bible)



There are many Christian organisations and charities that aim to help people in need. One that works on a global level is Christian Aid. Christian Aid helps people across the world, sometimes those in need as a result of wars or natural disasters.

Christians should support charities as Jesus said the Greatest Commandment is to "Love God… (and) Love your neighbour"



Sacraments

Sacraments are outward signs of blessings from God. Each sacrament

involves an important ceremony. In the Catholic Christian churches there are seven sacraments but in most Porestant Christian Churches there are only two.

Sacraments celebrated by all Christians Baptism

- Baptism is about the process of leaving behind sin and entering a new life. Many Christians (including Catholics) perform baptism on babies as a way of welcoming them into the faith and making sure they are beginning their life journey without original sin.
- During the baptism, the individual will be washed with holy water as a symbol of getting rid of sin.
- Baptists (a type of Protestant) do not baptise babies. This is because they believe people should be old enough to choose to be baptised and should be able to make the baptismal vows themselves.

Eucharist

0

20

- The first Eucharist was performed when Jesus shared bread and wine with his disciples the night before he was crucified (at the Last Supper).
- Catholic Christians believe that during a Echarist service the bread and wine become the body and blood of Christ as a miracle (transubstantiation)
- Protestant Christians believe that the Eucharist (often called sharing Holy Communion) is a commemoration of the Last Supper – it is a time for spiritual reflection but no miracles take place.

Sacraments of Catholic Christians

- Confirmation is when a Christian confirms the promises made at their Baptism are still true, they do this publicly in church
- Marriage is when a couple promise (vow) to be faithful to one another and God for the rest of their lives
- Reconciliation is when a Christian asks a priest to forgive their sins in the name of God
- Anointing of the sick is when someone is blessed by a priest through prayer and holy water, whilst unwell
- Holy orders is when a man dedicates his life to serving God and the Church by becoming a priest, this is done publicly with the blessing of a bishop

Christmas

- **Mo**st Christians celebrate Christmas on 25 December. However, **Orthodox** Christians use a different calendar, meaning they celebrate Christmas on 7 January.
- Advent is the period leading up to Christmas. It begins four Sundays before Christmas. In church during this time, many Christians are reminded of Old Testament prophecies about the coming of Jesus. Christians will often focus on the teachings from Jesus of love, hope, Joy and peace.

Why celebrate Christmas?

•Christmas is a time to remember that when Jesus was born, God became human. This allowed God to save humanity from sin. Without the **incarnation** of Jesus, Christianity could not exist.

•Christmas is a time for Christians to remember that they are part of a global community, despite differences within Christianity.

•Christmas is a time when families can bond and show love to one another. It reminds Christians that Jesus was born as a member of a human family who showed him love and loyalty.

Easter

Easter is an important festival that remembers and <mark>celebrates the last days of Jesus and </mark> <mark>his resurrection</mark>. The events of this week are known as **Holy.**

Jesus predicted that he would be arrested and killed for what he taught his followers to believe, he also predicted that he would resurrect from the dead. Everything he predicted came true in Holy Week proving to his followers he was Son of God, King of the Jews, God incarnate.

Why celebrate Holy Week?

•Holy Week shows Christians that Jesus was admired, **persecuted**, mocked and crucified all in one week. This reminds Christians of the range of experiences that people go through across the world.

•Christians are reminded of the suffering Jesus faced and the sacrifice he made for them.

•Easter is a time for Christians to remember that if they follow the teachings of Jesus, after death they will be united with God in Heaven.

•The Bible emphasises the idea that having faith in the resurrection of Jesus is a central part of Christian belief.







Pilgrimage

A pilgrimage is a journey religious people take to a holy place or a place of religious significance. Pilgrimage can be a physical journey but it can also represent an individual's journey of faith.

In the Bible it mentions that even Jesus went one spiritual journeys each year – "Every year Jesus' parents went to Jerusalem for the Festival of the Passover. When he was 12 years old, they went up to the festival, according to the custom. After the festival was over, while his parents were returning home, the boy Jesus stayed behind in Jerusalem, but they were unaware of it"

Walsingham is a village in Norfolk that became a pilgrimage site in 1061 after Richeldis de Faverches had a vision of the house in Nazareth where Mary lived. A copy of the house was made, and thousands of people visit this site each year.

Jerusalem is a particularly important pilgrimage location, as this is where the events of Jesus' last days occurred.

Why go on pilgrimage?

- To feel connected to God and deepen one's understanding of their faith
- Meet a diverse range of people who share a similar faith
- To spend time outside of one's normal routine to focus on their religion

Why not go on pilgrimage?

 Some Protestant Christians (such as John Calvin) believe pilgrimage can lead to celebrating relics of religious people or creating shrines which shouldn't be the focus of worship, such things distract from God

Religious Studies

Speakers Corner Religion, Philosophy & Ethics

Should we buy 'fast fashion'?	Can you be moral and rich?	Should we promote AI?	Should animals have rights?	Should we bring back the death penalty?
 Fast fashion is a way for clothing to be produced cheaply and in high quantities. Because people want cheap clothes companies pay very little to the makers. Because fashion trends move on so quickly, clothing is often disposed off quickly too which harms the environment 	More than a billion people live on less than \$1 a day One in three people don't have safe dinking water YET The wealthiest person in the world has more wealth than most poor countries and all the people in the world living in poverty combines	Artificial intelligence describes a computer that can carry out tasks normally done by humans. As AI progresses it is possible that superintelligence can be programmed into robots. This could lead to ethical problems such as – if a self-driving car crashes and kills someone, who is held responsible?	French philosopher Rene Descartes believed animals are no more than complicated biological robots free for us to use as we require. However, Peter Singer (Humanist) believes we are just another evolved animal and any right we have should be given to animals too.	The death penalty was abolished in 1969 however, it exists in many countries still to this day. There are 92 countries with the death penalty although not all use them. Only 18 men had the death penalty in the USA last year
 Arguments for People don't have much money to buy clothing so this is an affordable way to do it The quality of clothing is lower now, things don't last as long so we need a high turnover of clothes 	 Arguments for Yes because many rich people do good things e.g. Bill Gates set up the Gates Foundation Wealthy individuals have often worked hard for their wealth 	Arguments for - Yes because scientific and technology advancements are good for society, they can make life easier and reduce problems or suffering	 Arguments for Yes because animals have emotions and suffer mentally and physically too Intelligent animals such as apes and dogs are aware of suffering making it even greater We are just another animal, why should we have more rights? 	 Arguments for Yes because it can protect society The Bible teaches "an eye for an eye" and the Quran states that in some cases the death penalty is allowed It can help the victims family move on and feel like justice is done
 Arguments against Not paying people properly for the clothes they make encourages child labour and unfair working and living conditions People should be less greedy and pay more because it is fairer, companies should make less profit too It is wrong to harm the environment which fast fashion does in the creation and disposal of clothing 	 Arguments against Jesus said "it is easier for a camel to go through the eye of a needle than for a rich person to enter heaven" The rich should receive much higher taxes, it redistributes the wealth Some extreme wealth is immoral The positive impact a wealthy person could have is huge 	 Arguments against No because ethically, if things go wrong, we wouldn't have anyone to blame Humans are the current dominant species on the planet, we don't want Al "taking over" We cannot know all the potential dangers 	 Arguments against Most animals don't have the ability to understand the pain and thus don't suffer like humans do Animals can be killed humanely Animals don't have souls Without testing drugs on animals we wouldn't have many of the life saving drugs that we do today 	 Arguments against No because if a judge makes a mistake we cannot bring someone back to life There is no forgiveness or turning one's life around if they are dead Killing someone for acts such as murder doesn't teach that murder is wrong

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**.
- Glucose is stored as starch

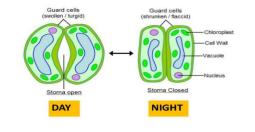
Light Energy

Water + Carbon dioxide ---- Oxygen + Glucose

Chlorophyll Starch

- 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?



Factors affecting photosynthesis

The rate of photosynthesis is limited by:

- Light intensity
- Temperature
- Availability of carbon dioxide.

These are known as limiting factors. Temperature affects the enzymes in plants.

Y8 Bio T3- Plants

Transpiration

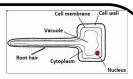
Transpiration is the movement of water through a plant.

- Water is absorbed through the roots by osmosis
- Water is transported up the xylem vessels
- Water evaporates through the stomata in the leaves.

Transpiration is affected by:

- Wind
- Temperature
- Rate of photosynthesis

Plant tissues



Root hair cells

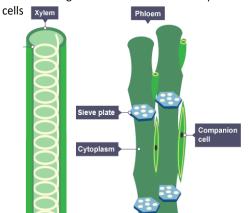
• Large surface area to absorb water by osmosis

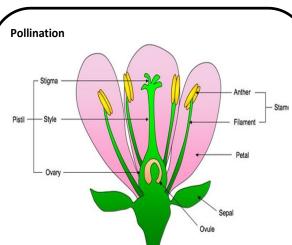
Xylem

- Continuous hollow tube made up of dead cells.
- Transport water upwards.

Phloem

- Transport sugar up and down the plant.
- Made of living cells sieve tubes and companion





Pollen is transferred from the anther (male organ) of one plant to the stigma (female organ) of another plant. The pollen then fertilizes the ovule in the ovary. Pollen can be transferred by insects or by the wind.

Seed dispersal

Seeds can be dispersed by the wind:

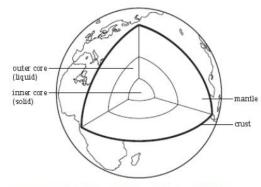




Seeds need to be dispersed away from the parent plant so as to not cause competition for light, minerals, space or water.

The structure of the Earth

The earth is made up of 4 layers, the inner core, outer core, mantle and crust.



The crust is split up in to large pieces called tectonic plates. These plates are moved around by the mantle which flows due to convection currents. Movements at plate boundaries can cause earthquakes and volcanoes. Year 8 Chemistry T3 - Earth Science Weathering Rocks can be worn away by water or by changes in temperature.

Chemical weathering happens when rainwater reacts with minerals in the rock. Rainwater is slightly acidic, because it contains dissolved gases.

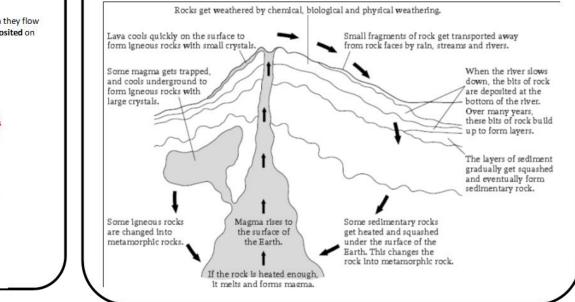
Physical weathering can happen in different ways. The minerals in a rock expand if it gets hot, and contract if it cools. These changes in size can produce strong forces. If the rock is heated and cooled over and over again the forces can make cracks in the rock. Physical weathering can also happen if water gets into a crack in the rock and freezes. Water expands when it turns into ice, and makes the crack wider. This kind of physical weathering is called **freeze-thaw action**.

Biological weathering is when rocks are broken up or worn away by plants and animals. For example, plant roots can grow into cracks in rocks and make the cracks bigger.

Type of rock	How it's formed	Description	Examples	
Sedimentary	Molten rock is called magma. If the molten rock flows out of volcanoes it is called lava. Igneous rocks are formed when molten rock cools down. If it cools quickly if forms rocks with small crystals, if it cools slowly it forms rocks with large crystals.	Hard with interlocking crystals, not usually porous	Granite Basalt Pumice	
	Layers of sediment collect and the bottom layers get squashed. The grains of sediment are forced closer together (compacted) and the water is squeezed out from between the grains. Minerals in the sediment 'glue' the grains of rock together (cementation). Eventually, sedimentary rock is formed.	Rounded grains, often soft and crumbly, often porous	Sandstone Limestone Chalk Conglomerate Shale	
Metamorphic	Sedimentary or igneous rocks can be changed by heat or pressure into new kinds of rock, called metamorphic rocks .	Hard with interlocking crystals, often in bands of different colours, not usually porous	Marble Quartzite Slate	

The rock cycle

The Earth is continually changing. Rocks are weathered and eroded and new rocks are being formed. The processes which make rocks, weather them and change them are linked together in the **rock cycle**.

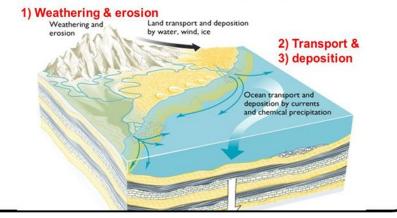


Erosion and transport

Rock can be weathered into smaller pieces. This is called **erosion**. The bits of rock can be **transported** away by streams, rivers and wind. Pieces of rock bump into each other while they are being transported, and bits get knocked off them. This is called **abrasion**. The bits of rock carried by a river are called **sediment**.

Fast moving water can move larger pieces of rock than slow moving water. Rivers slow down when they flow into a lake or the sea. The slow moving water cannot carry all of the sediment, so some of it is **deposited** on the bottom. Sediments often form layers.

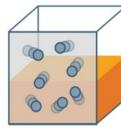
Layers of sediment can also form when sea water evaporates and leaves salts behind.

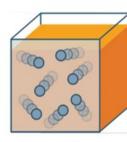


Internal energy and temperature

Particles in substances are always moving. They store kinetic energy.

If we heat a substance up, the particles gain more kinetic energy and move around more.





Cooler object

Hotter object

Temperature is a measure of how much kinetic energy is stored in the particles of a substance. Higher temperatures means the particles have more kinetic energy and are moving faster.

Y8 Phys T3- Energy

The Law of conservation of energy states energy can not be created or destroyed. Energy is simply transferred from one store to another.

Energy is measured in Joules (J).

Energy Stores

Different forms of energy are stored by substances: Chemical energy (stored in chemicals such as fuels) Gravitational energy (stored in objects raised above the ground)

Elastic energy (stored in stretched or compressed objects) Kinetic energy (stored in moving objects) Nuclear energy (stored in the centre of atoms) Thermal energy (stored in all substances)

Energy Transfers

Energy can be transferred from one store to another. For example, in a bow and arrow, the elastic energy stored in the bow is transferred into kinetic energy stored in the arrow as it flies.

Energy can be transferred from one store to another by:



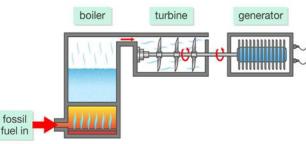
A force
Heating

Electricity

Elastic energy (stored in the bow)

Force

Kinetic energy (stored in the arrow) A coal power station works on the basis of burning coal in order to heat water and produce steam. When steam is generated, it turns a turbine, which turns a generator, which generates electricity.



When fossil fuels are burnt they produce greenhouse gases such as carbon dioxide and sulphur dioxide. Fossil fuels are also non-renewable, meaning that we are using them faster than they are being replaced.

There are environmental risks associated with the over use of fossil fuels, including climate change, acid rain, melting of ice caps due to global warming.

Alternative energy sources usually refer to energy sources that are not based on traditional methods of burning fossil fuels. A lot of research is going in to alternative energy sources that can reduce and even eliminate our dependence on fossil fuels. Most alternative energy is renewable, meaning we will not run out of the energy source. Some alternative energy sources are:

Wind, Solar, Hydroelectric, Geothermal, Wave, Tidal.



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Year 8 Spanish Knowledge Organiser Unit 5: En mi Ciudad

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ahora	now 📂	atracci				here	pelidroso/a	dangerous	discoteca		
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existir había	to exist there was		public)SS	complicado/a la contaminaciór conveniente	complicated pollution convenient	rápido/a el ruido ruidoso/a	fast noise noisy	cantar en el coro el fin de semana el finde	weekend weekend	
había hoy	to exist there was today	recorrer	public to go acro network dirty		complicado/a la contaminaciór conveniente cosmopolita	complicated pollution convenient cosmopolitan	rápido/a el ruido ruidoso/a	fast noise	cantar en el coro el fin de semana el finde ir a un concierto	weekend weekend to go to a concert	
había hoy el pasado	to exist there was today past	recorrer la red	public to go acro network dirty traditional	I	complicado/a la contaminaciór conveniente cosmopolita la cultura	complicated pollution convenient cosmopolitan culture	rápido/a el ruido ruidoso/a el servicio público	fast noise noisy	cantar en el coro el fin de semana el finde ir a un concierto ir de compras	weekend weekend to go to a concert to go shopping	
había hoy el pasado el acceso	to exist there was today past access	recorrer la red sucio/a tradicional el tren de v	public to go acro network dirty traditional apor steam trai	I	complicado/a la contaminaciór conveniente cosmopolita	complicated pollution convenient cosmopolitan	rápido/a el ruido ruidoso/a el servicio público el sistema	fast noise noisy public service	cantar en el coro el fin de semana el finde ir a un concierto ir de compras nadar en el mar	weekend weekend to go to a concert to go shopping to swim in the sea	
había hoy el pasado el acceso las afueras	to exist there was today past access outskirts	recorrer la red sucio/a tradicional el tren de v el turismo	public to go acro network dirty traditional apor steam trai tourism	I	complicado/a la contaminaciór conveniente cosmopolita la cultura el espacio	complicated pollution convenient cosmopolitan culture space stressful	rápido/a el ruido ruidoso/a el servicio público el sistema tan	fast noise noisy public service system	cantar en el coro el fin de semana el finde ir a un concierto ir de compras	weekend weekend to go to a concert to go shopping to swim in the sea to practise judo	
había hoy el pasado el acceso	to exist there was today past access	recorrer la red sucio/a tradicional el tren de v el turismo	public to go acro network dirty traditional apor steam trai tourism varied	I	complicado/a la contaminaciór conveniente cosmopolita la cultura el espacio estresante	complicated pollution convenient cosmopolitan culture space	rápido/a el ruido ruidoso/a el servicio público el sistema tan tan como	fast noise noisy public service system so	cantar en el coro el fin de semana el finde ir a un concierto ir de compras nadar en el mar	weekend weekend to go to a concert to go shopping to swim in the sea	
había hoy el pasado el acceso las afueras AVE	to exist there was today past access outskirts high-speed trai	in variedad	public to go acro network dirty traditional apor steam trai tourism varied	I	complicado/a la contaminación conveniente cosmopolita la cultura el espacio estresante hay mucho que hacer lento/a montar a caballo	complicated pollution convenient cosmopolitan culture space stressful there is a lot to do	rápido/a el ruido ruidoso/a el servicio público el sistema tan tan como al contrario	fast noise noisy public service system so as as on the other	cantar en el coro el fin de semana el finde ir a un concierto ir de compras nadar en el mar practicar judo	weekend weekend to go to a concert to go shopping to swim in the sea to practise judo to go out with	
había hoy el pasado el acceso las afueras AVE el barco	to exist there was today past access outskirts high-speed tran ferry	in variedad	public to go acro network dirty traditional apor steam trai tourism varied	I	complicado/a la contaminación conveniente cosmopolita la cultura el espacio estresante hay mucho que hacer lento/a	complicated pollution convenient cosmopolitan culture space stressful there is a lot to do slow	rápido/a el ruido ruidoso/a el servicio público el sistema tan tan como al contrario no es verdad	fast noise noisy public service system so as as on the other hand	cantar en el coro el fin de semana el finde ir a un concierto ir de compras nadar en el mar practicar judo salir con amigos	weekend weekend to go to a concert to go shopping to swim in the sea to practise judo to go out with friends	
había hoy el pasado el acceso las afueras AVE el barco el barrio cerca	to exist there was today past access outskirts high-speed tran ferry neighbourhood near	in variedad	public to go acro network dirty traditional apor steam trai tourism varied	I	complicado/a la contaminación conveniente cosmopolita la cultura el espacio estresante hay mucho que hacer lento/a montar a caballo la naturaleza	complicated pollution convenient cosmopolitan culture space stressful there is a lot to do slow to go horse riding nature	rápido/a el ruido ruidoso/a el servicio público el sistema tan tan como al contrario no es verdad no estoy de acuerdo	fast noise noisy public service system so as as on the other hand it's not true	cantar en el coro el fin de semana el finde ir a un concierto ir de compras nadar en el mar practicar judo salir con amigos va a ser ver una exposición	weekend weekend to go to a concert to go shopping to swim in the sea to practise judo to go out with friends it's going to be to see an art	

Year 8 Spanish Knowledge Organiser Unit 5: En mi Ciudad

5.1 De paseo por mi ciudad

in my village / city there is	una iglesia church bonito/a pretty un instituto school un museo museum un parque park bonito/a pretty histórico/a historic tranquilo/a quiet, peaceful	sin embargo no hay however there isn't	una plaza de toros <i>bullring</i> un restaurante <i>restaurant</i> una tienda de ropa <i>clothes shop</i>								
5.2 Por eso voy allí											
voy - l go va - you go vamos - we go van - they go	al nospital – to the nospital – – – –	para comprar fruta to buy fruit para vistar a mi abuela to visit my grandma in order jugar al fútbol con mis amigos to play footbal with estudiar para mi exámen de español to study for my Spa									
5.3 ¡Sigue todo recto!											
Perdona, ¿por dónde se va Excuse me, how do I get to	a la biblioteca? the library ? a la mezquita? the mosque? al museo? the museum? Pasa the museum?	o go past ake	la plaza the square el semáforo the traffic lights la primera / segunda calle the first / second street a la izquierda / derecha on the left / on the right								
5.4 Planes para el finde											
Este fin de semana voy a this weekend I am going to	cantar en el coro to sing in the choir	y / pero mi hermano/a va and / but my brother / sister is going	ir a un concierto to go to a concert ir de compras to go shopping nadar en el mar to swim in the sea practicar judo to practise judo								
5.5 ¿En la ciudad o en el campo	?										
Prefiero I prefer Me gusta I like Vivir to live / living en el campo in the countryside because hay más paz y meno contaminación – there is more peace and less por los servicios públicos son buenos – public services are good Detesto I hate											
5.6 Mi barrio con nostalgia											
Actualmente – nowadaystengo– I haveun mercado grande– a large marketHoy – todaytenía– I used to haveun aeropuerto en las afueras de la ciudad– an airport in the outskirts of the cityEn el pasado – in the pasthay– there is/areun tren de vapor– a steam trainHace diez años – 10 years agohabía– there used to bemuchas tiendas– lots of shops48											

Year 8 Spanish Knowledge Organiser Unit 6: Mi Insti

				1 55						
	que estudio			6.2 ¡Uff!	¡Qué rolla	azo!	6.6 Mis pl	anes		
las asignaturas		las matemática:	s maths	aburrido/a	a	ooring 🚫	aprender	to learn		2111
la clase	class	la música	music	difícil	(difficult	concentrarse	to concentrat	e	157 h.
-	What do you study?	la química	chemistry	divertido/	a 1	un	esperar	to hope		
Estudio la biología	l study biology	el teatro	drama	duro/a	I	hard	hacer amigos	to make new		
las ciencias	sciences	la tecnología	technology	fácil	(easy	nuevos	friends	- L	
el dibuio	art	el colegio	school	interesant	e i	nteresting	repasar	to revise	el yoga	yoga
la educación	P.E.	estudiar	to study	práctico/a	1	practical	sacar notas al		el/la asistente/a	assistant
física		el instituto	school	útil	I	useful	11	grades	el/la ayudante	helper
el español	Spanish	obligatorio/a	compulsory	el/la profe	sor(a) es t	he teacher is	tener la inten	•	el/la canguro	babysitter
la física	physics	me aburre	it bores me	despistado	o/a t	orgetful	de	intention of	el/la cuidador(a)	carer
el francés	French 🌽 🌽	me anima	it cheers me up	estricto/a	5	strict	trabajar	to work	el/la entrenador(a)	sports coach
la geografía	geography	me apasiona	it's a passion of	gracioso/a	ı 1	unny	competitivo/a		de deportes	
la gimnasia	gymnastics, P.E.		mine	guay	(cool	el curso que v	1	c el/la repartidor(a)	paper delivery
la historia	history	me da igual	it's all the same	inteligente	e i	ntelligent	ll i	year	de periódicos	boy/girl
los idiomas	languages		to me	tolerante	1	olerant	estresado/a	stressed	el trabajo a tiempo	part-time job
la informática	ICT	me entretiene	it entertains me	trabajado	·(a)	nard-working	voluntario/a	volunteer	parcial	· ·
el inglés	English				· · ·	_				
6.4 Lo que ha	ay en mi insti	(no) se debe	you must/ r							scolar hop
las instalaciones	facilities	(no) se puede	you can/ca	n′t	el club			I dont get it		
¿Qué hay en tu	What is there in your	charlar comer chicle	to chat to chew gui	m	de ajedre:	chess club	6	Sector		
instituto?	school?	comer en el com			de cine	film club	10		la hora	time 🗖
los aseos	toilets		sillos to run dowr		de debere		ь 🖗 🕼	5.00	¿Qué hora es?	What time is it?
el aula	classroom		corridor	Ture		ira book club		ĕ	Es/Son	lt is
la biblioteca	library	ensuciar las	to dirty/dar	mage the		afía photography d	lub 🗠		¿A qué hora?	At what time?
la cancha (de	(basketball) court	instalaciones	facilities	-	-			0	A la/las	At
baloncesto) el comedor	canteen	estar en silencio	to be silent		la excursión				y cuarto	quarter past
el gimnasio	gym	gritar en clase	to shout in a	class	extraescola				y media	half past
el laboratorio	laboratory	hacer los debere			la jornada	day	el campeonato	championship	menos cuarto	quarter to
la planta baja	ground floor	prestar atención		,	las manualidad	craft	memorizar	to memorise	el día	day
la sala de	staff room	respetar a los	to respect t		el partido	match	participar	to participate	especial	special
profesores		profesores			el taller	workshop	tener que	to have to	el horario	timetable
el salón de actos		ser educado/a	to be polite		el viaje	trip	tener tiempo	to have time	el recreo	break
					el vidje	uip		a set to the s		
las taquillas	lockers						la actividad	activity	los domingos	on Sundays
las taquillas el uniforme usar el móvil	lockers uniform to use your mobile	ser maleducado, ser puntual		ie.	las artes marciales	martial arts	la actividad anual	activity annual	los domingos los sábados	on Sundays on Saturdays 49

Year 8 Spanish Knowledge Organiser Unit 6: Mi Insti

6.1 Todo lo que estudio

	a estudiar I am going to study		biology sciences art Spanish physics		aunque a	because although but	me ab me an			it is compulsor it bores me it cheers me up it's a passion of		
6.2 jUff! jQué rollazo!												
me gusta/n (mucho) me encanta/n Odio Mi asignatura favorita es	I (really I love I hate My fav	y) like ourite subject	is	la historia los idiomas la informát el inglés	ica l	history languages ICT English	porque e because	es / son it is/ they are	d d	burrido/a/os/as ifícil/es ivertido/a/os/as uro/a/os/as	boring difficult fun hard	
6.3 Mi horario escolar			C		_							
¿Qué hora es? What time is it?	JUII 183 003, 11 C3, CUALI U				ree, fo ck ock	our o'clock		o/ cuarto s diez /cuarto dia		uarter past quarter to ast		
6.4 Lo que hay en mi isnti												
En mi instituto hay In my school there is/ are	nstituto hay aulas class		ca a libr	brary (no) se debe			you must/ you can/ca		com	ner chicle ner en el comedor ar en clase	to chew gu r to eat in th shout in cl	ne canteen
6.5 Y después de las clases												
En mi insti hay muchas actividades extraescolarespor ejemploIn my school there are many extra curricular activitiesfor example		el club de ajedre el club de cine el club de deber	t	chess club film club homework club	me apasiona me mola me chifla	l am passionate I like I like	e about	el cine la tecnología las artes mare	ciales	cinema IT martial arts		
6.6 Mis planes												
En el futuro Pronto El año que viene Dentro de poco	In the Soon next ye shortly	ear		tengo la inteno espero quisiera me gustaría	ión de	e l intend l hope l would l would	dlike	sacar bue ir a la uni hacer nue	versidad	go to u	od grades university ke new friends	50

