



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.

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(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	t 1	Lis	t 2	Lis	t 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 for Observation Primary sou observation drawing: drawing som real in front Secondary so observation drawing: drawing som from a pictu	rce al hething of you. bource al hething re.		Grades of Pencils Pencils come in different grades. The softer the pencil the darker the tone. H = hard, B = black (soft) In Art the most useful pencils are B, 2B and 4B. If your pencil has no grade it is likely to be an HB (hard black in the middle of the scale)
Art / Drama / Music	Attitudes Beliefs	6н 5н	1 4H 3H 2H H F
Food	Culture	<i>Щ</i> ф	2B 3B 4B 5B 6B
Faith/ Religion	Customs	Culture	The ideas, customs, and social behaviour of a particular people or society.
Behavie	our Rituals	Tone	A tone is produced either by the mixture of a colour with grey, or by both tinting and shading.
	Yellow- Green Orange	Shade	The mixture of a colour with black, which increases darkness.
Blue	-Green Red-Orange	Tint	The mixture of a colour with white, which increases lightness
Colour Theory: When	Bice- Violet Violet	Mark making	Different lines, patterns, and textures we create in a piece of art. It applies to any art material on any surface, not only paint on canvas or pencil on paper.
mixing and blending		Composition	The position and layout of shapes on the paper
colours and creating colour	prmary analogous hue	Pattern	A series of shapes and lines put together to make a decorative image. Patterns are often inspired by shapes in their environment.
palettes for your work. Do not forget the colour wheel.	econdry conplementary to the intermediate split complementary enables able to complementary enables	Rangoli	Designed to be symmetrical. They combine straight lines, curved lines and images like flowers and other things from nature. The symmetry of the designs in a symbol of prosperity, growth and luck.

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



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Types of Polymers..... Year 8 Material Focus: Polymers

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, casings 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, aircra canopies and windows, covers for can 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, packagin '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 (HDPE)	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.

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

ion, tableware psulation, bonding

rk surfaces,

Electrical fittings, handles and control knobs, adhesives



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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

		_		
	Recycled products: clothing, carpet, clamshells, soda & water bottles	Common products: soda & water bottles; cups, Jars, trays, clamshells	Polyethylene Terephthalate	
	Recycled products: detergent bottles, flower pots, crates, pipe, decking	Common products: milk Jugs, detergent & shampoo bottles, flower pots, grocery bags	High-Density Polyethylene	HOPE
	Recycled products: pipe, wall siding, binders, carpet backing, flooring	Common products: cleaning supply jugs, pool liners, twine, sheeting, automotive product bottles, sheeting	Polyvinyl Chloride	PVC 3
B	Recycled products: trash bags, plastic lumber, furniture, shipping envelopes, compost bins	Common products: bread bags, paper towels & tissue overwrap, squeeze bottles, trash bags, six-pack rings	Low-Density Polyethylene	
	Recycled products: paint cans, speed bumps, auto parts, food containers, hangers, plant pots, razor handles	Common products: yogurt tubs, cups, juice bottles, straws, hangers, sand & shipping bags	Polypropylene	₽ € \$
	Recycled products: picture frames, crown molding, rulers, flower pots, hangers, toys, tape dispensers	Common products: to-go containers & flatware, hot cups, razors, CD cases, shipping cushion, cartons, trays	Polystyrene	₽ €
- S	Recycled products: electronic housings, auto parts,	Common types & products: polycarbonate, nyton, ABS, acrylic, PLA; bottles, safety glasses, CDs, headlight lenses	Other	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.....

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FERROUS METALS:

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

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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
Carhon Steel	Tough Can be bardened and tempered	Cutting tools such as drills
	c	c
Stainless steel	Tough, resistant to rust and stains.	Cutlery, medical instruments.
Cast iron	Strong but brittle. Compressive strength very	Castings, manhole covers, engines.
Wrought iron	Fibrous, tough, ductile, resistant to rusting.	Ornamental gates and railings. Not in
		much use today.
NON-FERROUS	S METALS:	
Metals that do	not contain iron and are not magnetic . They do i	not rust.

NAME	COLOUR	PROPERTIES	USES
Aluminium	Light grey	Ductile, soft, malleable, machines well. Very light.	Window frames, aircraft, kitchen ware.
Copper	Reddish brown	Ductile, can be beaten into shape. Conducts electricity and heat.	Electrical wiring, tubing, kettles, bowls, pipes.
Brass	Yellow	Hard. Casts and machines well. Surface tarnishes. Conducts electricity.	Parts for electrical fittings, ornaments.
Silver	Whitish grey	Ductile, Malleable, solders, resists corrosion.	Jewellery, solder, ornaments.
Lead	Bluish grey	Soft, heavy, ductile, loses its shape under pressure.	Solders, pipes, batteries, roofing.
ALLOYS: Alloys are m a mixture of	ixtures of metal copper and zinc	with an element to improve its prop . Alloys can also be classified as ferr	perties or aesthetic . For example brass is ous or non-ferrous.

Solder	Pewter	Brass	NAME
Grey	Dark grey	Gold	COLOUR
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	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	An alloy of copper and zinc, can be cast and machined, used for musical instruments and ornamental hardware	PROPERTIES & USES

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 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

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Example of a shaded pewter casting design

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. ОΚ 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

A

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.



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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



Conflict

Fair or just behaviour or treatment for all.



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

Prejudice Preconceived opinion that is not based on reason or actual experience.

disagreeing



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

Morality

Power



English

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

Piot 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
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 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 or 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 is hear if a data 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.
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 traised for a black man to do compating irrational like to the secape.	Biblical illusions	future event. Words/situations that make reference to the 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
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 fall on his own knife.		literally.
Acticus discussing what to do although neek knows that boo knied ewen, they agree that the story is Ewen fell of his own knife.		anan C

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

		-
	<u>Beef</u>	British reared breeds such as Aberdeen Angus, Longhorn and Hereford have traditionally been considered to provide the best beef in the world.
Organic Beef farming standards will have been needed at all stages of th		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 high level of fat marbling.		Wagu meat comes from a group of Japanese breeds whose meat is renowned for its high level of fat marbling.
	<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. Hogge 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.
S	Ham	This is a specific cut of the thigh part of the pig which has been cured and or salted.
⊇in Pi	Bacon	This is produced by curing pork with salt or in brine solution. After maturing it is sold as unsmoked bacon. It can be smoked to add extra flavour to the bacon. The meat is usually darker in colour and has a distinctive flavour.
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

lassifi ation	Туре	Examples
White	White fish have less than 5 per cent fat (oil) in their flesh, which is why their flesh appears white. Instead, they have oil in their liver. Examples of white fish are: cod, haddock, halibut, whiting, coley, plaice and Dover sole. White fish are round (e.g. cod, haddock and whiting) or flat (e.g. plaice and sole).	×
Oily	have between 10 and 20 per cent fat (oil) in their flesh, which makes their flesh quite dark. Examples of oily fish are mackerel, herring, pilchard, sprat, sardines and salmon.	
Shell	Shell fish are found in the sea. Shellfish are divided into: Crustaceans – these have a shell and legs. Examples include prawns, scampi, lobster, and crab. Molluscs – these have a shell but no legs and they often fix themselves to rocks. Examples include cockles, mussels, winkles and oysters. Squid and Octopus - are also classed as molluscs—even though their shell is inside! Fish produced in fresh water include trout and carp	
Ways of preserving fish. Salting - If enough salt is used, then the fish may keep for up to a year. Smoking - Fish can be smoked using different techniques. Hot smoked fish are moist, lightly salted and fully cooked. They can be eaten without further cooking.		

Cold smoked fish are generally saltier in flavour and have less moisture. Cold smoking does not cook the fish. It merely adds a smoked flavour. Smoked fish and salted fish such as kippers and bloaters should have a firm flesh, shiny skin and a good 'smoky' smell. **Pickling** - Pickling fish was originally conceived as a way to preserve it. It is a common technique in Scandinavia.

Pickling is now used widely to

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

Drying - Fish are laid out to be dried.

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

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- skimmed milk	The most popular type of milk in the UK. Fat 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	
	fartilisars, pasticidas or agrochamicals	
	used on it	
LIHT milk	Milk that has been beat treated to give it a longer	
OTTIMIK	shelflife Once openedit 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. It is suitable for vegans and substitute milkfor	
Goot's milk	those who are allergic to dairy food.	
Goat STIIIK	cow's milk	
Evaporated milk	A concentrated, sterilised milk product. It has 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.	
Almond and coconut milk	An alternative for vegans or people with allergies	
1/3 water		



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.

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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**.

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.





How cereals are processed: Processing the flour after milling

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

Nutrients calcium, iron and B group vitamins are added to. This is called fortification. Baking powder will be added to make self-raising flour. Flour:Flour comes from different types of cereals,

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



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

- It is a very versatile commodity because it can be used to make both sweet and savour dishes
- Rice is served as part of a meal to provide bulk and a feeling of fullness. ٠
- It is quick to cook
- ٠ 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 Routine Je me lève. I get up. Je prends le petit I have breakfast. déjeuner. Je me douche. I have a shower. Je me coiffe. I do my hair. Je m'habille. I get dressed. Je me lave les I clean my teeth.	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?	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?	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 mid?	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?
Je quitte la <i>I leave the house.</i> maison. Je me lave. <i>I have a wash.</i> Je me couche. <i>I go to bed.</i>	Module 5 – Point de départ Dans ma ville / mon village, il y a beaucoup de possibilités sportives.	Sports in my town In my town / my village, there are/is lots of sporting opportunities. few / not many	On doit faire la sieste. Quel temps fait-il? Il fait chaud. Qu'est-ce que tu vas faire le weekend prochain?	You must take a siesta. What's the weather like? It is hot. What are you going to do next weekend?
Module 4: Unit 4 Moving house	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(hall) / 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.	What did you do last weekend? I went How was it? It was interesting.
vieil un appartement a flat une maison a living-room un salon a living-room un bureau an office une cuisine a kitchen une chambre a bedroom un collège a school un gymnase a gym une cantine a canteen un copain / une a friend copine un(e) voisin(e) a neighbour un(e) petit(e) a boyfriend/ ami(e) girlfriend vivre sans toi 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 Il/Elle a gagné. Il/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 – I want</mark>	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> v	erb infinitives
attendre	to wait for

		30
voyager	to travel	se
		se
Regular – <i>re</i> v	erb infinitives	s'e
attendre	to wait for	s'l
entendre	to hear	se
perdre	to lose	se
rendre visite	to visit	:
vendre	to sell	J

Regular – <i>ir</i> verb infinitives		
applaudir	to clap	
choisir	to choose	
finir	to finish	
vomir	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-

je regard e je fin	is
	is
tu regard es tu fin	
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/ell	s fin issent

sc	on 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

-			
<mark>aller</mark>	<mark>to go</mark>	<mark>je vais</mark>	<mark>l go /am going</mark>
<mark>avoir</mark>	<mark>to have</mark>	<mark>j'ai</mark>	<mark>l have</mark>
boire	to drink	je bois	l drink
découvrir	to discover	je découvre	l discover
dormir	to sleep	je dors	l 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	l am
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>	<mark>je suis allé(e)</mark>
avoir	to have	j'ai	j'ai eu
<mark>boire</mark>	<mark>to drink</mark>	<mark>je bois</mark>	<mark>j'ai bu</mark>
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	s it is not
et	and
mais	but
parce que	because
car	because
aussi	also
très	very
assez	quite
trop	too
ma/mon/m	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

<mark>Deserts have hot and dry</mark> <mark>climates.</mark> 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.

a land to a state of

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

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.

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







Year 8 - Climate Change

Types of Energy sources

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

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

Impacts of oil extraction on different countries

- Afforestation

- Electric cars

- Waste recycling

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

JO

Which European Countries



Italy () France ()

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

000

Depend on Russian Gas?



statista

Netherlands 🚍 📰 1

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
ernsehen (sep)	to watch TV
schlafen	to sleep
kochen	to cook
essen	to eat
arbeiten	to work
ernen	to learn
spielen	to play
anzen	to dance
singen	to sing
adfahren (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)

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

Hallo = hi prima = great Guten Tag = good day toll = great wunderbar = wonderful Bitte = please Danke schön = thank you sehr gut = very good Auf wiedersehen= goodbye! gut = good / well Tschüss = bye! nicht gut = not good Schlecht = bad 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 on the 19th 7 Sieben am zwanzigsten on the 20th 8 Acht am einunddreißigsten on the 31st 9 Neun 10 Zehn Die Tage der Woche = days of the week 11 Elf Montag = Monday Dienstag = Tuesday 12 Zwölf 13 Dreizehn Mittwoch = Wednesday 14 Vierzehn Donnerstag = Thursday 15 Fünfzehn Freitag= Friday 16 Sechzehn Samstag = Saturday 17 Siebzehn Sonntag = Sunday 18 Achtzehn 19 Neunzehn 20 Zwanzig 21 Einundzwanzig 22 Zweiund zwanzig 30 Dreißig 31 Einunddreißig und = and aber = but Juli = Juli oder = or auch = also

das Wochenende = the weekend Die Monate (months) Januar = January Februar = February März = March April = April Mai = May Juni = June August = August September = September Oktober = October November = November Dezember = December

on the first

on the third

on the fourth

on the tenth

on the second

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/ war m.
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 Wohnzim mer/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 Ko mmode/ 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/ein e/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

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

Timeline of main events1823

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 grew 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 Marcons were a group of former 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.
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	Enslaved person	A person who has been enslaved, a more accurate and humanising than the label, "slave."
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	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.
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	Cat o Nine tails	A whip used to punish disobedience on board middle passage ships, had nine pronged tails and could caused agonising punishment.
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 by what they heard. Olaudah Equiano published his autobiography in 1789, he was a former enslaved person and gave an honest account of the middle passage and life on a plantation which helped the public understand that enslaved people were not just property. Numerous anti-slavery societies 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.
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 Iransatiantic 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	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.
The transatiantic trade. Many MPs came round to the idea, although many would have done so to 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 it ³¹ illegal.

History

Change and continuity in medicine: 1000-



It was believed that illness was caused by imbalance of the four humours.

The idea came from an ancient Greek doctor named Hippocrates, and was developed by a Roman doctor called Galen. He claimed that illness could be cured by balancing the humours,

this was the theory of opposites.



kind of illness and was accepted, since there were no other, more scientific explanations for disease. The Church had a huge influence over

peoples lives in Medieval times, they taught that illness was a punishment from God and the best way to prevent it was to avoid sin.

People who became ill were encouraged to pray to, fast (go without food)or to go on pilgrimages to holy sites to pray for a cure. There were around 1,000 hospitals, 30% of which were owned by the church. They

offered rest and recovery rather than treatment. They often turned away seriously ill people, claiming these people were doomed to die as part of God's plan, meaning prayer couldn't help them and they may infect others.



Prior knowledge (Y7)

Because of the influence of the church, people believed the black death was caused by sin. They were advised to pray, to fast, give gifts to God and even whip themselves, hoping that God would show them mercy. The Four Humours idea also affected reactions to the Black Death, People thought the illness was caused by bad air which unbalanced the humours, and that smelling herbs, bleeding or purging (cleansing a persons body by giving them an emetic; medicine to induce vomiting) would help.

In 1348, the Black Death came to

England, killing thousands.

Prior

knowledge

(Y7)

Medieval, 1000-1500



In the early 1500s, an anatomist (a doctor who studies the human body) called Andreas Vesalius pubished new illustrations of the insides of the body, which he had learned about by dissection. Vesalius' illustrations seemed to contradict the four humours theory and made it acceptable for doctors to carry out dissections, which were previously considered sinful. Vesalius' work led to the discover of veins and arteries, and eventually to William Harvey's discovert in 1628 that the heart pumped blood around the body.



noted that there were different types of diseases such as measles and scarlet fever. Sydenham said that treatment should be based on the type of disease identified and has nothing to do with imbalanced humours.

Humanist ideas spread further 🗲 through the Royal Society, founded in the 1660s to encourage scientific



wealthy and educated, most poor people were still illiterate and explained illness through superstition and religion. When the Plague of London came in 1660, rich people could leave the city and the poor were left behind. In their panic, they resorted to the same old ineffective medieval cures and preventions; such as prayer and whipping themselves,

around 100,000 died.

Despite these new ideas

spreading among the

Prior

knowledge

(Y8)

Early Modern, 1500-1700

In the 1800s, a Frenchman named Louis Pasteur noticed that food goes bad if left in the open. He believed this was because of tiny, living things called microbes. He claimed that microbes lived in the air and could cause illness; he was right, he had discovered germs. A British doctor, Joseph Lister, was looking for a way to stop flesh wounds from rotting so they could be healed. Pasteur's work led Lister to believe that flesh rotted because open wounds became infected with germs. He discovered that cleaning a wound with carbolic acid could kill germs. This way of stopping wounds from becoming infected

was called antiseptic medicine. Lister's discovery led to changes in how surgery was performed. Antiseptics became widely used and the importance of keeping instruments, surgical areas and clothes completely clean was finally understood.

In 1847 a doctor called

James Simpson, discovered that inhaling the vapours from a chemical called chloroform could send people into a deep sleep. He had found an effective anaesthetic (medicine that sends people into a deep, painless, sleep) surgery no longer had to be carried out on patients while they were awake, making it

God's intentions 18th and 19th Centuries, 1700-1900 Building on Pasteur's discovery of germs, 20th century scientists discovered that the body produces antibodies to fight germs.

This discovery led to chemists creating or discovering their own treatments that would work in the same way, these were called magic **bullets**. These have been used to treat illnesses such as syphilis and pneumonia. They aren't always effective but are the most promising type of medicine discovered in the 20th century.





could stop some germs from multiplying, he called it penicillin. Inspired by Fleming, other scientists examined mould samples to look for more microorganisms that could kill more germs, these were named, antibiotics. In 1943, a microoraanism that could cure tuberculosis was found. Scientists today are still searching for germ killing antibiotics, though there is some evidence that germs can become immune to antibiotics over time.

20th century technology has led to enormous medical advancement. Doctors can now use X rays to look inside a person's body.

Surgery has also improved. The dangers of chloroform have led to the safer anaesthetics such as nitrous oxide. Local anaesthetics have been developed which only affect one part of the body, making surgery quicker and easier. Doctors can also perform transplant surgery, taking an organ from one person and giving to to someone else and blood transfusions (giving someone's blood to another person).



published the Beveridge

a big problem for the poor

and free healthcare should

be given to all, paid for by

people often couldn't do.

report on poverty in

healthcare was only

available by paying

Government created the NHS (National Health Service) bringing free healthcare to all, including the poor. The NHS significantly improved access to treatment for all people but in the early days, England. He said illness was so many people sought free healthcare that the service became overwhelmed. By the 1960s, improvements were the Government. Previously, made and though waiting times are still sometimes high, the NHS works today as a

doctors directly, which poor model exampe of free healthcare. Modern, 1900-present

32



The new discoveries of this age were not perfect.

called patent remedies.

Religion was also still very

some felt that killing pain

important (thought the four

humours had died out) and

with anesthetic was against





History

much safer. Chloroform could harm or kill a patient if used incorrectly (today we use safe anesthetics) and Lister's antiseptic was ignored at first since many people still did





Key person: Florence Nightingale Period of work: 1840s-

Job: Nurse 1860s

- At age 17 she decided it was her mission to serve mankind and she trained as a nurse in Germany.
- In 1854, Britain went to war with Russia (The Crimean War) and Nightingale convinced the Government to send her, along with a group of 38 other nurses to improve the conditions in hospitals there.
- She made several changes to the care of wounded soldiers and by the time she returned to Britain, she was a national hero.
- Her big idea was to keep hospitals cleaner, she introduced scrubbing brushes to ensure there was no dirt near patients and she provided clean bedding and good meals for patients.
- When she arrived at the Crimean War, a wounded soldier had a roughly 40% chance of death, within 6 months she had reduced this to 2%

Florence Nightingale's impact and legacy

- She set up the Nightingale school for nursing, training nurses in cleanliness, and wrote "Notes on nursing" in 1859, explaining the key duties of a nurse.
- She made nursing seem like a respectable profession and a skilled job, nurses before Nightingale had a reputation for being drunk and uncaring, the number of nurses in England grew rapidly because of her.
- On her recommendation new hospitals were built in England that were easier to clean. She recommended the "Pavilion Style" hospital, meaning separate wards were created to keep infectious patients separated from others. She knew this style of hospital was expensive but campaigned tirelessly for its adoption around the country. In 1862, she wrote several letters to a man called Thomas Worthington who was building a hospital in Chorlton recommending that he adopt the Pavilion Style.

Medicine in Manchester: The Cholera epidemic (1832)

- In 1832, an epidemic of cholera broke out in the UK: cholera is an illness caused by drinking infected water, it causes severe dehydration and can kill a person in hours, There were several outbreaks from 1830-1870, the 1832 outbreak killed 50,000 nationwide, including many poor people in Manchester
- A Manchester doctor called Henry Gaulter discovered a link between cholera and poverty, noting that people living in overcrowded housing with poor food and sanitation were much more like to catch it, in Manchester, around 700 people died from cholera in 1832.
- By the 1840s, doctors in Manchester had discovered that poorer streets often had 36-40 people living in them, 6 or 7 to a room. These streets would often share the same privy (public toilet). Often these privies were poorly drained, overflowing and dangerously close to public water wells and pumps creating a risk of infected water (poor people didn't have running water taps in their own homes). The poor areas were breeding grounds for infection and disease such as cholera.
- The Government slowly took action to clean up the streets. In the 1840s they banned back to back housing in Manchester and by the 1860s, public sewage systems were created to dispose of waste correctly and prevent water from becoming infected. There was some opposition to these changes but as they took hold, slowly but surely, cholera began to fade in the UK.

Keyword Definition

... A medieval theory about medicine that claimed all illness was caused by an imbalance in four liquids that all people had inside them; black bile, yellow bile, blood and phlegm. humours .



Four

A branch of science **that studies the insides of a persons body**. Anatomy first became popular in the early modern period thanks to the illustrations of Andreus Vesalius who based his illustrations on human **dissection** (cutting people open). The study of anatomy led to William Harvey's discovery that the heart pumps blood around the body.



A belief that was growing in the Early Modern Period that God couldn't explain everything and new explanations should be found for life's mysteries, including illness. This led to Thomas Sydenham's idea that there were different types of disease that should be treated differently and these disease were the reason people got sick, not God or the four humours.



An idea from the mid 1800s by a scientist called Louis Pasteur. He discovered that illness was caused by tiny living microbes which could get inside a persons body and cause them to become sick. Pasteur's new idea about germs was proven true, and completely changed medicine, though it took a while to catch on.

Antiseptic ₽ A new type of medicine discovered by Joseph Lister in the mid 1800s, that can kill germs and prevent infection. The first antiseptic was carbolic acid and the idea led to doctors discovering the importance of keeping their surgeries, clothing and equipment completely clean to avoid infection.



A type of medicine that **puts someone into a deep**, **painless sleep before surgery**. Originally, chloroform was used, though this was discovered to be dangerous. Safer gases are used today and local anaesthetics can target specific areas so it is sometimes not necessary to put a patient to sleep.

A new type of 20th century medicine based on the discovery that **our bodies produce** antibodies to fight disease, and that scientists can make "magic bullet" medicine that copies these antibodies. They have been used to treat syphilis and pneumonia and show lots of promise for the future.



A type of medicine that stops germs from multiplying. There are many antibiotics that work on different germs, the first was penicillin, discovered by Alexander Fleming in 1928. There are still many antibiotics to be discovered, balanced by growing concern that people are becoming immune to them.



The National Health Service, started in 1948 by the Labour Government. This allows all people to access healthcare for free without having to pay. Instead, healthcare is paid for by the Government using money they collect from taxes. The NHS has massively improved access to medicine in the 20th century.



A hospital design that began in the 1800s and was widely adopted following a campaign by Florence Nightingale to build more of them. Pavilion style hospitals kept infectious patients separate from each other to prevent illness from spreading.

Epidemic (A disease outbreak that effects a geographical area or community, such as the *ና*ያን Manchester cholera epidemic

Pandemic A disease outbreak that effects the entire world, such as the Covid 19 pandemic

Cholera An illness caused by people drinking infected water. Cholera causes dehydration so severe that it can thicken a person's blood and can kill a person within hours. Cholera is curable today but still affects very poor parts of the world where hygiene and sanitation is poor and medicine isn't widely available.

Antibiotic



<u>NHS</u>

SPREADSHEET MODELLING

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The **Ribbon** is Excel's command menu interface. It organizes commonly used actions together in an intuitive and visual way. These are the main parts of the Ribbon.

 Tabs organize related groups of commands together.

2. Groups organise related commands together.

Command Buttons allows you to perform actions or open menus with further related actions.

4. **Command Menu** some command buttons will have a small down arrow located to the right or below the button. This indicates that a menu is available with sub-commands under the command button.

5. Dialog Box certain groups in the ribbon will con-

SPREADSHEETS

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 patterns/trends in the data. Once the data is formatted it becomes information.

Other uses

- Modelling and planning
- Finance and budgeting
- Predictions/Simulations
- Calculations

SPREADSHEET MODELLING

Key Words					
Axis labels	A label for a graph's horizontal or vertical axis that explains what the value relates to.				
Cell	An individual spreadsheet box where you enter data.				
Cell reference	Names of individual cells (A5 for example).				
Chart	A graphical way of displaying data.				
Column	Cells that go down the spreadsheet page.				
Computer model	Predicts and investigates how real-life devices or processes might behave in different situations.				
Data	Values, typically letters or numbers.				
Field	A Collection of one data type across multiple records.				
Format	The appearance of a document, including the fonts, colours, size and rotation.				
Formula	Makes automatic calculations that update when the data does.				
Function	Makes more complex calculations.				
Label	Text used to identify cell contents.				
Range	Set of cells next to each other.				
Record	A collection of data on one person or item.				
Row	Cells that go across the spreadsheet page.				
Spreadsheet	A piece of software used to manipulate data, often used in modelling.				
Workbook	A collection of worksheets				

Knowing your Graphs				
Line Graph	To show a change over time.			
Pie Chart	To show the individual parts that make up a whole.			
Bar Chart	To compare things that aren't directly related.			
Scatter Graph	To look for a pattern or link between two sets of data.			

Line Graph **Bar Chart** Wildlife Population Album Sales by Band 2000-2010 (x1000) 200 180 160 140 Marva and the Larva 120 100 Sherm and the Worms 80 60 Doug and the Slugs 40 20 Gail and the Snails D 2017 2018 2019 2020 2021 2022 0 10 20 30 40 50 60 70 80 90 Scatter Graph **Pie Chart Recommended Diet** Salary 1,200,000 •6 Fruit 1,000,000 •7 23% 18% Protein • 3 800,000 Wegetables 600,000 • 3 30% 15% Dairy 400,000 •4 Grains ٠ 02 **MOther** 200,000 • 5 • 8 6 10 2 4 8 ۰

SPREADSHEET MODELLING

Formula	Explanation
=A7+B7	This will add the data in cell A7 with the data in cell B7
=D4-J1	This will subtract the data in cell J1 from the data in cell D4.
=C5*I9	This will multiply the data in cell C5 with the data in cell I9
=E6/T7	This will divide the data from cell E6 with the data in cell T7
=SUM(F4:F12)	This will add up all the data from cells F4 to F12
=AVERAGE(H2:R2)	This will work out the average (mean) of the data between the cells in H2 and R2
=MAX(A6:A34)	This will look at the cells from A6 to A34 and display the maximum (highest) value across the range
=MIN(C4:K4)	This will look at the cells from C4 to K4 and display the minimum (lowest) value across the range

Operator	Explanation
=	Equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
<>	Less than or greater than

What is conditional formatting?

Conditional formatting is a powerful tool for data visualisation and analysis, as it allows users to quickly spot trends, outliers, or important data points within a spreadsheet

What is a Macro?

A spreadsheet macro is a set of instructions or commands that are recorded and saved to automate repetitive tasks in a spreadsheet.

• Automating repetitive tasks: For example, formatting reports in a specific way or updating charts with new data.

• **Performing complex calculations:** Macros can execute intricate calculations or data manipulations with a single command.

• Data cleaning and manipulation: Automating tasks like sorting, filtering, and organising data.

Notes

What is a Function?

a spreadsheet function is a tool that helps automate calculations and data analysis in a spreadsheet, saving time and improving accuracy

What is a formula?

Formulas allow users to perform a wide range of calculations and data manipulations in a spread-sheet, providing a powerful tool for analysing and managing numerical data



python[™] Key terms & definitions

	Key Vocabulary	Definition
1	Algorithm	A sequence of steps used by a human or computer to solve a problem or complete a task
2	Program	An algorithm expressed in a programming language
3	Programming language	A set of rules for instructing a computer to perform specific tasks
4	Interpreter	A program which translates high level language code to machine code and executes it
5	Program translation	One of the actions performed by an interpreter. Progrogramming language code is converted into machine code that a computer can
6	Program execution	One of the actions performed by an interpreter. Execution means doing the actions specified by the machine code
7	Programming environment	The tools a human uses to create programs
8	Input	Any method of getting data into the computer
9	Output	Any method of getting data out of the computer
10	Variable	A storage location with a name. The data in a variable can be changed after being initially set
11	Assignment	A statement in a programming language used to set or reset the data stored in a storage location identified by a variable name
12	Syntax error	An error that has occurred because the programmer has not followed the rules of the programming language they're using
13	Logical error	When a program does not behave in the way that it should, even though the programmer has followed the rules of the language
14	Arithmetic expression	A mathematical operation, for example, 10+5
15	Sequence	One of the three basic programming constructs. Instructions that are carried one after the other in order.
16	Selection	One of the three basic programming constructs. Instructions that can evaluate a Boolean expression and branch off to one or more alter- native paths.
17	Iteration	One of the three basic programming constructs. A selection of code that can be repeated either a set number of times (count-controlled) or a variable number of times based on the evaluation of a Boolean expression (condition-controlled).

:Computing

Random Numbers

Selection

D

Ø

of the random library number in your program you can make use When you want to generate a random

ment selection in Python. It is optionally

An if statement can be used to imple-

followed by an elif and/or and else

Random number example

Selection Example

ч

if age >= 18: # Example statement.

from random import randint

myRandomNumber II random(1,6)

film") print("You can watch the

else:

the print("You can't watch film")

short!") print("Password is too

Condition-controlled iteration 38



comes false. A while statement can be used to repeat a section of code until a condition be-

Condition-controlled iteration examples

Example

while not correct: correct = False

your password: password = input("Enter 3

if password == correctPw:

correct = True

print("Access grant-

ed") else:

incorrect password") print("Access denied:



program work? Why doesn't my



Python is a programming language, and its keywritten in American English. words, syntax, and documentation are primarily

"color" (American English) rather than For example, Python uses terms like

Issue	Possible Cause	Troubleshooting Steps
Syntax Error	Errors in the structure of the code, such as missing parentheses, wrong indentation, or misspelled key words.	Review the code for red underlines or error messages in the IDE, fix any highlighted issues, and ensure prop er indentation.
Variable Not Defined	Using a variable without declaring it first.	Check if the variable is declared before using it. If not, declare the variable with an appropriate value.
Indentation Error	Incorrect use of indentation in Python, which is crucial for defining blocks of code.	Ensure consistent indentation using either spaces or tabs. Use an IDE that automatically manages indentation to avoid this issue.
Typos in Function/Variable	Misspelling the name of a function or variable.	Double-check the spelling of function and variable names throughout the code. Correct any typos found.
Incorrect File/Module Path	Trying to import a module or access a file using an incorrect path.	Verify the path to the module or file. Ensure it is cor- rect, including proper capitalization and folder struc- ture.
Missing Module	Attempting to use a module that is not installed.	Use the package manager (e.g., pip) to install the re- quired module: pip install module_name.
Logic Error	Flaws in the program's logic, causing unexpected results.	Carefully review the code's logic and compare it with the intended behaviour. Use print statements to debu and identify the issue.
Infinite Loop	Code getting stuck in a loop that never exits.	Review loops and conditionals to ensure there is a proper exit condition. Add print statements to trace the program's flow.
Input Mismatch	Expecting one type of input but receiving another.	Double-check input functions and their expected data types. Convert input to the correct type if necessary using type casting.
File Not Found	Attempting to open or read a file that doesn't ex- ist.	Confirm that the file path is correct and that the file exists. Check file permissions if applicable.



Vlaths

40

Generating Sequences

nth term: $3n^2 - 7$

(4, 0)

Finding the nth term

Find the *nth* term of; 5,11,17,23,...

The 50th term of the sequence is:

time (The common difference)

time (The common ratio)

5, 10, 20, 40, ... Common Ratio = 5 12, 6, 3, 1.5, ... Common Ratio = 0.5

1, -3,9, -27, ... Common Ratio = -3

the next. 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

2, 11, 20, 29, ... Common difference = 9

14, 11, 8, 5, ... Common difference = -3

012345-6

(2, -3)×

Find the first 3 terms of the sequence with

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

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

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

Half-term 5

8 Core & Support

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

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

Arithmetic Sequences: Add or subtract the same number each

Geometric Sequences: Multiply by the same number each

Fibonacci Sequence: Add the 2 previous terms together to get

6 times table. Therefore, the nth term is: 6n - 1

V 4

-31

(-3, 0)







Maths

Music

<u>Y8 Music HT5&6 – Rhythm, Metre and Tempo, Structure</u>

Y8 Music HT5&6 – Rhythm, Metre and Tempo, Structure

Structure 🛍

Rhythm

Metre IIII Tempo 🍘

Rhythm is a pattern of sound, created by putting different note/rest lengths in a set order.

Note	Name	Beats
0	Whole note	4 beats
0	Half note	2 beats
	Quarter note	1 beat
1	Eighth note	½ beat
A	Sixteenth note	1/4 beat

Rests are periods of silence in the music



Structure words for a Rock song:

Structure

Intro: short section, no lyrics, establishes the key

Verse: set of lyrics that tell the main 'story'. The melody for each verse is usually the same.

Chorus: Usually at a higher pitch that the verse to create excitement. Contains the song title.

Solo/Instrumental: No lyrics (except backing vocals sometimes), shows an instrument off.

Bridge: used as a transition from one section to another eg chorus to verse.

Middle 8: Usually happens in the middle of a song, has a different melody to the verse and the chorus.

Pre-chorus: short section just before the chorus.

Outro: opposite of intro, short section that ends a song.

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

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

Festivals

Christmas

- Most 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 celebrates the last days of Jesus and his resurrection. 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.

- To feel connected to God and deepen one's understanding of their faith
- Meet a diverse range of people who share a similar
- 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

Why go on pilgrimage?



World Religions - Sikhism Religion, Philosophy & Ethics

Overview

- Sikhism is one of the world's major religions. ٠ It is the world's 5rd largest religion, with about 28 million followers. It began over 500 years ago.
- Sikhs are the people who follow Sikhism. Sikhs ٠ believe in one God who guides and protects them. Sikhs see everybody as being equal in God's eyes.
- Leading a good life and making the right ٠ choices are important in Sikhism.
- Granth Sahib is the holy book of Sikhism. Sikhs worship at home and in Sikh temples called Gurdwaras.

Guru Nanak

Guru Nanak was the founder of Sikhism and one of the first of the ten Sikh Gurus.

Sikhs believe that Guru Nanak was born in a small village called Punjab in India. He was born into a Hindu family, but grew up around Hindus and Muslims.

Sikhs believe that Guru Nanak was spoken to by God, who told him to follow a simple faith, in which everybody was equal. In other religions, some people were thought of as better than others.

His message was simple: pray to God, be honest, work hard, care for your family and your community. These ideas formed the basis of Sikhism.

1481 CE: Guru Nanak 1500 C

spreadi

refuses to wear the

'golden thread.'

1469 CE: Birth of

Guru Nanak.

		Answers t	o Important Que	estions and Key Vocabula	ry		
5 Ka Covering	Where and how do Sikhs worship? Why?		 Sikh temples are called gurdwaras. They are to with a large central dome. Gurdwaras have four doors, to show that they open to all people, as a part of the Sikh belief to everyone is equal. Before Sikhs worship in a gurdwara, they should a bath as a mark of respect and cleanliness. Shoes are taken off, and heads are covered 				
Kara - n bangle that reminds Sikhs lo good and remember God in their actions Kanga - wooden comb used twice day to comb hair	What is the Sikh holy book?		-The Sikh holy text exactly 1430 pages lo the hymns in it are in from everywhe	India Punjab Granth Sahil			
Kirpan - all sword worn at all times a reminder to stand up against oppression	Where do most Sikhs live in the world?		-Sikh people are ma of north India, in As millia -However, there a every ir -The largest populat of India are in the Ur Kingdom, and Mala parts of Afria	inly found in the Punjab region sia. In total, there are nearly 23 on Sikhs in India. re also populations of Sikhs on nhabited continent. sions of Sikhs in countries outside nited States, Canada, the United ysia. There are very few Sikhs in ca and Central America.	El Onkar Gurdwara Gobind Singt Nishan Sahik		
	What are some other Sikh traditions?		-When a Sikh baby turns out to celebra news to friends and revealed in a co -Sikh names are easil are given an extra 'lion.' Girls and w	Sikh baby is born, the whole community to celebrate! Fathers traditionally tell the friends and family, and the baby name is aled in a ceremony at the gurdwara. les are easily distinguishable. Boys and men n an extra Sikh name – Singh – meaning Cirls and women have Kaur – 'princess.'			
			Top 10	Facts!			
	 Sikhs tal disciples. El Onka teaching 	ke their name fro ır ('God is one') is g in the Sikh religi	m 'sikha', meaning the most powerful on.	 Not all Sikh men and women join the Khalse is a choice and involves an initiation ceremon The most holy place for Sikhs is the Golden 			
C 4a	3. Sikhs oft eating, t	ten sit on the floor to show that ever	r together whilst yone is equal.	8. The last Guru, Gobind Sing there should be no more C	njab, india. gh, decided that Gurus.		
	4. Most of were wr	the hymns sung ir itten by the Sikh	n gurdwaras today Gurus.	9. The symbol of Sikhism is k	nown as the Khanda		
	5. To keep their hai	their long hair ti ir in a turban - a	dy, many men wrap piece of material.	10. Sikhs have their own flag. Nishan Sahib and is found	It is known as the outside gurdwaras.		
/aisakhi marks the Sikh New V	Vaisa	akhi Festiva ime. Sikhs r	l emember when	Khalsa was created.			

eated. Khalsa was a purified Sikh community created by Guru Gobind Singh, in which all were equal The festival takes place in April, also marking the start of Harvest.

Key Vocabulary

		Sikhism Ti	meline			
E: Nanak travels,	1539 CE:	1606 CE: Guru Arjan, the	1699 CE: The tenth Guru,	1708 CE: Gobind Singh dies.	1716 CE: The first of the Sikh military leaders	-
ng the message of	Guru Nanek	5 th Guru, is tortured to	Gobind Singh, founds the	He is the last of the human	– Banda Singh Bahadur. He leads many	
equality.	dies.	death for being a Sikh.	community of the Khalsa.	Sikh Gurus.	military campaigns.	

Granth Sahib Gobind Singh Nishan Sahib Golden Temple nen and women join the Khalsa. It d involves an initiation ceremony. of Sikhism is known as the Khanda.

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

- 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



Root hair cells

Plant tissues

· 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 cells



Pollination

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.

Science - Biology

Stamer

The Periodic Table of Elements

1	2											3	4	5	6	7	0	
				Key			1 H hydrogen 1										4 He ^{helium} 2	
7 Li	9 Be		relativ ato	ve atomi omic sy	ic mass mbol							11 B	12 C	14 N	16 O	19 F	20 Ne	
lithium 3	beryllium 4		atomic	name (proton)) numbei	r						boron 5	carbon 6	nitrogen 7	oxygen 8	fluorine 9	neon 10	
23 Na	24 Mg					_						27 Al	28 Si	31 P	32 S	35.5 Cl	40 Ar	
sodium 11	magnesium 12											aluminium 13	silicon 14	phosphorus 15	sulfur 16	chlorine 17	argon 18	
39	40	45	48	51	52	55	56	59	59	63.5	65	70	73	75	79	80	84	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
potassium	calcium	scandium	titanium	vanadium	chromium	manganese	iron	cobalt	nickel	copper	zinc	^{gallium}	germanium	arsenic	selenium	bromine	krypton	
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
85	88	89	91	93	96	[98]	101	103	106	108	112	115	119	122	128	127	131	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
rubidium	strontium	yttrium	zirconium	niobium	molybdenum	technetium	ruthenium	rhodium	palladium	silver	cadmium	indium	tin	antimony	tellurium	iodine	xenon	
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
133	137	139	178	181	184	186	190	192	195	197	201	204	207	209	[209]	[210]	[222]	
Cs	Ba	La*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	TI	Pb	Bi	Po	At	Rn	
caesium	barium	lanthanum	hafnium	tantalum	tungsten	rhenium	osmium	iridium	platinum	^{gold}	mercury	thallium	lead	bismuth	polonium	astatine	radon	
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	
[223]	[226]	[227]	[261]	[262]	[266]	[264]	[277]	[268]	[271]	[272]	[285]	[286]	[289]	[289]	[293]	[294]	[294]	
Fr	Ra	Ac*	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og	
francium	radium	actinium	rutherfordium	dubnium	seaborgium	bohrium	hassium	meitnerium	darmstadtium	roentgenium	copernicium	nihonium	flerovium	moscovium	livermorium	tennessine	oganesson	
87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	

* The Lanthanides (atomic numbers 58 – 71) and the Actinides (atomic numbers 90 – 103) have been omitted.

Relative atomic masses for Cu and CI have not been rounded to the nearest whole number.

 $\overline{\mathbf{n}}$

7

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.

Erosion and t	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 <u>slow moving</u> 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.



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

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**.





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)

Force

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)

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 <u>burnt</u> 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 <u>in to</u> 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.



50

Year 8 Spanish Knowledge Organiser Unit 5: En mi Ciudad

5.1 De pase	eo por mi ciuda	d		5.2 Pc	or eso voy allí		5.3 ¡Sigue to	do recto!		~			
hay el lugar el banco la biblioteca la calle la catedral el cine la estación de tren el estadio el hospital el hotel la iglesia el instituto la mezquita el museo el parque	there is/are la place el bank el library la street la cathedral bo cinema hi train station tra stadium hospital hotel church school mosque museum park	a plaza de toros I restaurante I supermercado a tienda de ropa onito/a istórico/a ranquilo/a	bullring restaurant supermarket clothes shop pretty historic quiet, peaceful	apoya compi estudi ir leer obser pasea ver viajar visitar las ru el sitio único	ar to sup rar to bu iar to stu to go to rea to sea to tra r to vis inas ruins o site, p /a uniqu	oport y ad serve lk e, watch vel it blace	¿Por dónde se va? muchas gracia de nada cruzar pasar tomar tomar torcer tuerce la primera la segunda la tercera a la derecha a la izquierda sigue todo rec	How do I ge thank you v you're welc to cross to go past to take take to turn turn the first the second the third on the right on the left to go straight	et to? rery much come				
5.6 Mi barr actualmente ahora era existir había hoy el pasado el acceso las afueras AVE el barco el barrio cerca contener diferente	io con nostalgia currently now it was to exist there was today past access outskirts high-speed train ferry neighbourhood, a near to contain different	 a fresco/a lejos el parque de atraccio público/a recorrer la red sucio/a tradicional el tren de va el turismo variado/a la variedad. area 	fresh far theme par public to go acro network dirty traditional tourism varied variety	rk ss n	5.5 ¿En la ci el aire la alergia allí aquí complicado/a la contaminació conveniente cosmopolita la cultura el espacio estresante hay mucho que hacer lento/a montar a caballa la naturaleza no me importa la oportunidad	air allergy there here complicated n pollution convenient cosmopolitan culture space stressful there is a lot to do slow to go horse riding nature it doesn't matter opportunity	mpo? la paz el peligro peligroso/a rápido/a el ruido ruidoso/a el servicio público el sistema tan tan como al contrario no es verdad no estoy de acuerdo sobre todo	peace danger dangerous fast noise noisy public service system so as as on the other hand it's not true I don't agree above all	5.4 Planes para e bailar en la discoteca 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 de arte viajar en tren	el finde to dance in a club to sing in the choir 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 exhibition to travel by train			

Year 8 Spanish Knowledge Organiser Unit 5: En mi Ciudad

5.1 De paseo por mi ciudad

								1			
En mi pueblo / ciudad hay in my village / city there is	una iglesi un institu un musec un parque	a church to school o museum e park	bonito/a histórico/a tranquilo/a	pretty historic a quiet, peacef	ul	sin embargo however the	no hay 'e isn't	una plaza de toros un restaurante una tienda de ropa	bullring restaurant clothes shop		
5.2 Por eso voy allí											
voy - l go va - you go vamos - we go van - they go	al su al hc al pa a la l	permercado to ospital to orque to biblioteca to	the superma the hospital the park the library	arket	para in order	ara comprar fruta vistar a mi abuela order jugar al fútbol con mis amigos estudiar para mi exámen de español			to buy fruit to visit my grandma to play footbal with my f to study for my Spanish t	iriends test	
5.3 ¡Sigue todo recto!										<u>o</u>	
Perdona, ¿por dónde se va . Excuse me, how do I get to	library ? mosque? museum?	Cruza Pasa Toma Tuerce	to cross to go past take turn			la plaza the square el semáforo the traffic li la primera / segunda calle a la izquierda / derecha	ghts the first/second street on the left / on the righ				
5.4 Planes para el finde											
Este fin de semana voy a this weekend I am going to	bailar er cantar e	n la discoteca n el coro	to dance to sing ir	י in a club ה the choir	y / pero n and / but going	ni hermano/a my brother /	va sister is	ir a un concierto ir de compras nadar en el mar practicar judo	to go to a concert to go shopping to swim in the sea to practise judo		
5.5¿En la ciudad o en el can	npo?										
Prefiero I prefer Me gusta I like Vivir to live / living en el campo in the countryside porque hay m because los se es est es est						más paz y m ervicios púb stresante/ po	eno contaminación – there licos son buenos – public s eligroso/ ruidoso – it's stre	e is more peace and less pe services are good sssful / dangerous / noisy	ollution		
5.6 Mi barrio con nostalgia											
Actualmente – nowadays Hoy – today En el pasado – in the past Hace diez años – 10 years a	ago	tengo tenía hay había	– I have – I used t – there is – there us	to have ;/are ised to be	un me un aei un tre mucha	rcado grande opuerto en l n de vapor as tiendas	as afueras de	– a large mar e la ciudad – an airport in – a steam trai – lots of shop	ket n the outskirts of the city in is	52	

Year 8 Spanish Knowledge Organiser Unit 6: Mi Insti

8.1													
6.1 Todo lo	que estudio			6.2 ;Uff!	¡Qué rol	lazo!	6.6 Mis plar	nes					
las asignaturas	subjects	las matemáticas	s maths	aburrido/a	a	boring	aprender	to learn		839191			
la clase	class	la música	music	difícil		difficult	concentrarse	to concentrate	<u>ـ</u>	63 5VX			
¿Qué estudias?	What do you study?	la química	chemistry	divertido/	а	fun	esperar	to hone					
Estudio	l study	el teatro	drama	duro/a		hard	haaar amigas	to mobe					
la biología	biology	la tecnología	technology	fácil		easy	nacer amigos	to make new					
las ciencias	sciences	el colegio	school	interesant	e	interesting	ropocor	to rovico	el yoga	yoga			
el dibujo	art	estudiar	to study	práctico/a		practical	repasar	to revise	el/la asistente/a	assistant			
la educación	P.E.	el instituto	school	útil		useful	sacar notas altas	b to get high	el/la avudante	helper			
	Spanish	obligatorio/a	compulsory	ol/la profe	sor(a) os	the teacher is		grades	el/la canguro	babysitter			
la física	physics	mo aburro	it horos mo	docnictode	.soi(a) es	forgetful	tener la intenció	on to have the	el/la cuidador(a)	carer			
a fisica	Fronch	me anima	it choors mo up)/ d	orgetrui	de	Intention of					
la geografía	geography	me anaciona	it cheers me up	estricto/a		SUNCL	trabajar	to work	el/la entrenador(a)	sports coach			
la gimnasia	gymnastics P F	The apasiona	ni s a passion or mine	gracioso/a	1	tunny	competitivo/a	competitive	de deportes				
la historia	history	me da igual	it's all the same	guay		cool	el curso que vier	ne next academic	el/la repartidor(a)	paper delivery			
los idiomas	languages	ine du iguai	to me	inteligente	2	intelligent		year	de periódicos	boy/girl			
la informática	ICT	me entretiene	it entertains me	tolerante		tolerant	estresado/a	stressed	el trabajo a tiempo	part-time job			
el inglés	Fnglish			trabajado	r(a)	hard-working	voluntario/a	volunteer	parcial				
CI IIIgiC3	English							Teranteen					
	av en mi insti	(no) se debe	you must/n	nustn't	C E V d				C 2 Mi havaria a	and an and			
6.4 Lo que ha	ay en mi insti	(no) se debe (no) se puede	you must/ n vou can/car	nustn't n't	6.5 Y de	espués de las c	lases	Idonit	6.3 Mi horario es	scolar Jon ?			
6.4 Lo que ha	ay en mi insti	(no) se debe (no) se puede charlar	you must/ n you can/car to chat	nustn't n't	6.5 Y de	espués de las c	lases	I donit get it	6.3 Mi horario es	scolar			
6.4 Lo que ha las instalaciones ¿Qué hay en tu	ay en mi insti s facilities What is there in your	(no) se debe (no) se puede charlar comer chicle	you must/n you can/car to chat to chew gur	nustn't n't n	6.5 Y de el club de ajedr	espués de las c	lases	I donit get it.	6.3 Mi horario es	scolar			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto?	ay en mi insti s facilities What is there in your school?	(no) se debe (no) se puede charlar comer chicle comer en el com	you must/n you can/car to chat to chew gur nedor to eat in the	nustn't n't n e canteen	6.5 Y de el club de ajedr de cine	e spués de las c ez chess club film club	lases	I donit get it.	6.3 Mi horario es	scolar			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos	ay en mi insti s facilities What is there in your school? toilets	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa	you must/n you can/car to chat to chew gur nedor to eat in the isillos to run down	nustn't n't e canteen the	6.5 Y de el club de ajedr de cine de deber	espués de las c ez chess club film club res homework club	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Ec (Son	scolar time What time is it?			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la bibliotoca	ay en mi insti s facilities What is there in your school? toilets classroom	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa	you must/n you can/car to chat to chew gur nedor to eat in the ssillos to run down corridor	nustn't n't e canteen the	6.5 Y de el club de ajedr de cine de deber de litera	espués de las c ez chess club film club res homework club tura book club	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son	scolar time What time is it? It is			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las	you must/n you can/car to chat to chew gur nedor to eat in the ssillos to run down corridor to dirty/dan	nustn't n't e canteen the nage the	6.5 Y de el club de ajedr de cine de deber de litera de fotog	espués de las c ez chess club film club res homework club tura book club grafía photography cl	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora?	scolar time What time is it? It is At what time?			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto)	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities	nustn't n't canteen the nage the	6.5 Y de el club de ajedr de cine de deber de litera de fotog	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las	scolar time What time is it? It is At what time? At			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio	you must/n you can/car to chat to chew gur nedor to eat in the isillos to run down corridor to dirty/dan facilities to be silent	nustn't n't e canteen the nage the	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió	espués de las c ez chess club film club res homework club tura book club grafía photography cl on excursion	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto	scolar time What time is it? It is At what time? At quarter past			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities to be silent to shout in c	nustn't n't e canteen the nage the lass	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion ar extracurricula	lases	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media	scolar time What time is it? It is At what time? At quarter past half past			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere	you must/n you can/car to chat to chew gur nedor to eat in the ssillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete	nustn't n't e canteen the nage the lass your hwk	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion lar extracurricula day craft	lases b ub r el campeonato	I donit get it.	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto	scolar time What time is it? It is At what time? At quarter past half past quarter to			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten	nustn't n't e canteen the nage the lass your hwk tion	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion lar extracurricula day craft	lases b ub r el campeonato co memorizar to	i donit get i t. hampionship o memorise	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día	scolar time What time is it? It is At what time? At quarter past half past quarter to day			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja la sala de	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor staff room	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención respetar a los	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten to respect th	nustn't n't canteen the nage the lass your hwk tion ne teachers	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida el partido	espués de las c ez chess club film club res homework club tura book club grafía photography cl on excursion lar extracurricula day craft des	lases b ub r el campeonato co memorizar to participar to	i donit get i t. hampionship o memorise o participate	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día especial	scolar time What time is it? It is At what time? At quarter past half past quarter to day special			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja la sala de profesores	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor staff room	(no) se debe (no) se puede charlar comer chicle correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención respetar a los profesores	you must/n you can/car to chat to chew gur nedor to eat in the asillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten to respect th	nustn't n't canteen the nage the lass your hwk tion ne teachers	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida el partido el taller	espués de las c ez chess club film club res homework club tura book club grafía photography cl on excursion lar extracurricula day craft ides match workshop	lases b ub r el campeonato d memorizar to participar to tener que to	hampionship o memorise o participate o have to	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día especial el horario	scolar time What time is it? It is At what time? At quarter past half past quarter to day special timetable			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja la sala de profesores el salón de actos	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor staff room	(no) se debe (no) se puede charlar comer chicle correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención respetar a los profesores ser educado/a	you must/n you can/car to chat to chew gur nedor to eat in the asillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten to respect th	nustn't n't e canteen the nage the lass your hwk tion ne teachers	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida el partido el taller el viaje	espués de las c ez chess club film club res homework club tura book club rafía photography cl in excursion lar extracurricula day craft ides match workshop trin	lases b ub r el campeonato d memorizar to participar to tener que to tener tiempo to	totalited	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día especial el horario el recreo	scolar time What time is it? It is At what time? At quarter past half past quarter to day special timetable break			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja la sala de profesores el salón de actos las taquillas	ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor staff room s theatre lockers	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención respetar a los profesores ser educado/a	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten to respect th to be polite	nustn't n't e canteen the nage the lass your hwk tion ne teachers	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida el partido el taller el viaje	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion lar extracurricula day craft ides match workshop trip	lases b ub r el campeonato memorizar participar tener que tener tiempo ta actividad a	i donit get it. hampionship o memorise o participate o have to o have time ctivity	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día especial el horario el recreo los domingos	scolar time What time is it? It is At what time? At quarter past half past quarter to day special timetable break on Sundays			
6.4 Lo que ha las instalaciones ¿Qué hay en tu instituto? los aseos el aula la biblioteca la cancha (de baloncesto) el comedor el gimnasio el laboratorio la planta baja la sala de profesores el salón de actos las taquillas	ay en mi insti ay en mi insti s facilities What is there in your school? toilets classroom library (basketball)court canteen gym laboratory ground floor staff room s theatre lockers uniform	(no) se debe (no) se puede charlar comer chicle comer en el com correr por los pa ensuciar las instalaciones estar en silencio gritar en clase hacer los debere prestar atención respetar a los profesores ser educado/a ser maleducado,	you must/n you can/car to chat to chew gur nedor to eat in the sillos to run down corridor to dirty/dan facilities to be silent to shout in c es to complete to pay atten to respect th to be polite /a to be rude	nustn't n't e canteen the nage the lass your hwk tion ne teachers	6.5 Y de el club de ajedr de cine de deber de litera de fotog la excursió extraescol la jornada las manualida el partido el taller el viaje las artes	espués de las c ez chess club film club res homework club tura book club rafía photography cl on excursion lar extracurricula day craft des match workshop trip martial arts	lases b ub r el campeonato memorizar tener que tener tiempo ta aatuividad a anual a	hampionship o memorise o participate o have time ctivity nnual	6.3 Mi horario es la hora ¿Qué hora es? Es/Son ¿A qué hora? A la/las y cuarto y media menos cuarto el día especial el horario el recreo los domingos los sábados	scolar time What time is it? It is At what time? At quarter past half past quarter to day special timetable break on Sundays on Saturdays			

Year 8 Spanish Knowledge Organiser Unit 6: Mi Insti

6.1 Todo lo que estudio

Estudio I study voy a estudiar I am going t Estudiaba I used to stu	o study udy	la biología las ciencias el dibujo el español la física		biology sciences art Spanish physics		porque aunque pero	because although but	es oblig me abu me anir me apa	atorio/a rre na siona		it is compulsory it bores me it cheers me up it's a passion of	mine
6.2 j Uff! j Qué rollazo!												
me gusta/n (mucho) me encanta/n Odio Mi asignatura favorita es	l (really) l love l hate My favo) like ourite subject	is	la historia los idiomas la informát el inglés	s tica	history languages ICT English	porque e because	es / son it is/ they are	a d d d	burrido/a/os/as ifícil/es ivertido/a/os/as uro/a/os/as	boring difficult fun hard	Ļ
6.3 Mi horario escolar			C		_							0
¿Qué hora es? What time is it?	Son las Es la un A la/s u	dos, tres, cua a na/ dos	tro	It is two, th It is one o'clo At one/ two o'cl	ree, f ock ock	our o'clock	y cinco menos y med	o/ cuarto 6 diez /cuarto lia	five /q ten / c half pa	uarter past Juarter to Ist		
6.4 Lo que hay en mi isnti												
En mi instituto hay In my school there is/ are		unos aseos aulas una bibliote un comedor	toilets classr ca a libra cante	s ooms ary en		(no) se debe (no) se puede	you must/ you can/ca	mustn't n't	com com grita	er chicle er en el comedor ar en clase	to chew gu to eat in th shout in cla	m e canteen iss
6.5 Y después de las clases.												
En mi insti hay muchas act extraescolares In my school there are man curricular activities	ividades ny extra	por ejem for exam	plo ple	el club de ajedr el club de cine el club de deber	ez res	chess club film club homework club	me apasiona me mola me chifla	l am passionate : I like I like	about	el cine la tecnología las artes marc	iales	cinema IT martial arts
6.6 Mis planes												
En el futuro Pronto El año que viene Dentro de poco	In the f Soon next ye shortly	uture ar		tengo la inten espero quisiera me gustaría	ción c	de l'intend l'hope l'would l'would	d d like d like	sacar buer ir a la univ hacer nuev	as notas ersidad vos amig	get goo go to u os to mak	od grades iniversity æ new friends	54