Knowledge Organiser

Year 8

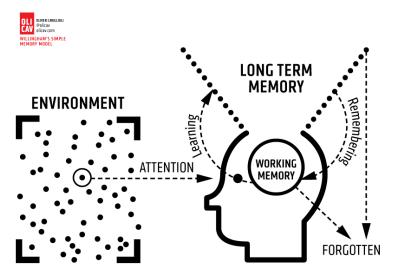
Cycle 3

Name:



Using your Knowledge Organiser for homework

- Your Knowledge Organiser contains the essential knowledge that every student must know.
- Regular use of the Knowledge Organiser helps you to recap, revise and revisit what you have learnt in lessons.
- The aim is to help remember this knowledge in the long term and to help strengthen your memory
- You will use the Knowledge Organiser to help learn during homework.
- You will be assessed on the knowledge from your Knowledge Organiser; the more you revisit information the more likely it will be remembered for lessons, assessments and exams.
- For each homework you will be asked to look at a particular section of your Knowledge Organiser.
- Make sure you follow the homework timetable below so that you do the right homework for the right subjects each day.
- Each day (Monday to Friday) you will study 3 subjects for 20 minutes each.
- All Knowledge Organiser homework is completed in your blue Knowledge Workbooks
- All Maths and English homework is completed on SPARX and must be 100% completed each week.



Homework Timetable Year 8

	Monday	Tuesday	Wednesday	Thursday	Friday
Subject 1	Maths	History	Maths	English	Maths
Subject 2	English	Science	English	Science	Geography
Subject 3 Week A	French/Spanish	RPE	Drama	Food/3D Design	PE
Subject 3 Week B	French/Spanish	Art	Music	Computing	Life Skills

How to use your Knowledge Organiser

In your blue knowledge book you will always write the date, subject heading and ensure that they are underlined with a ruler.

Task 1: Questions

Where a subject includes questions to answer, you must answer these in your blue book. This is the main task to do as a minimum. If you have additional time, or where there are no questions, then do the following Tasks 2-4

Task 2: The Cover – Write – Check method

- 1. Study the relevant section of your Knowledge Organiser for several minutes.
- 2. Cover the Knowledge Organiser.
- 3. In your blue book, write out what you can remember.
- 4. Check the Knowledge Organiser to see if you got it right.
- 5. Correct any mistakes in purple pen.
- 6. Repeat the process even if you got it 100% correct.
- 7. Complete sections that you have previously studied using the same process.

Task 3: Free recall

- 1. Pick a section of the Knowledge Organiser you have studied recently.
- 2. Without looking at the Knowledge Organiser write down everything you can remember about the topic.
- 3. Check the Knowledge Organiser to see how much you got right.
- 4. Correct any mistakes and add any missing parts in purple pen.

Task 4: Elaboration

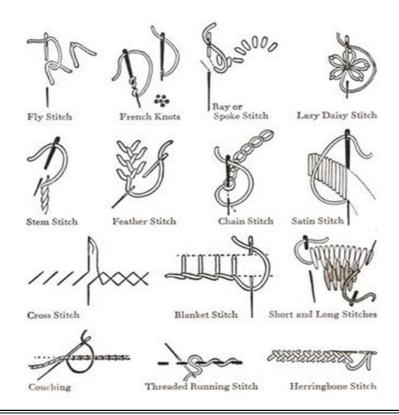
- 1. Once you have completed the Cover Write Check method, add any additional details you can to your notes.
- 2. Remember your Knowledge Organiser only contains the core knowledge, there is much to learn beyond it so practise adding more detail when you can.

Year 8 Cycle 3 Knowledge Organiser Contents Page

Subject	Page Number
3D Design	5
Art and Design	6
Computer Science	7
Drama	8-9
English	10-18
Food and Nutrition	19-20
French	21-26
Geography	27-31
History	32-38
Life Skills	39-41
Maths	42-43
Music	44-45
PE	46
Religion, Philosophy and Ethics	47-48
Science	49-60
Spanish	61-66

Line Line is the path left by a moving point. A line can be horizontal, diagonal or curved and can also change length. Shape A shape is an area enclosed by a line. Shapes can be geometric or irregular. Form Form is a three dimensional shape, such as a cube, sphere or cone. Tone This refers to the lightness or darkness of something. This could be a shade, or how dark or light a colour appears. Texture This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't be mixed using any other colours.	A. Visual	A. Visual Elements Keywords							
point. A line can be horizontal, diagonal or curved and can also change length. Shape A shape is an area enclosed by a line. Shapes can be geometric or irregular. Form Form is a three dimensional shape, such as a cube, sphere or cone. Tone This refers to the lightness or darkness of something. This could be a shade, or how dark or light a colour appears. Texture This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	711 713 441	The state of the s							
line. Shapes can be geometric or irregular. Form Form is a three dimensional shape, such as a cube, sphere or cone. Tone This refers to the lightness or darkness of something. This could be a shade, or how dark or light a colour appears. Texture This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	Line	point. A line can be horizontal, diagonal or curved and can also							
shape, such as a cube, sphere or cone. Tone This refers to the lightness or darkness of something. This could be a shade, or how dark or light a colour appears. Texture This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	Shape	line. Shapes can be geometric							
darkness of something. This could be a shade, or how dark or light a colour appears. Texture This is to do with the surface quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	Form	shape, such as a cube, sphere or							
quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent actual texture. Pattern A design that is created by repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	Tone	darkness of something. This could be a shade, or how dark or light a							
repeating lines, shapes, tones or colours. Colour Red, yellow and blue are primary colours, which means they can't	Texture	quality of something. There are two types of texture: Actual texture really exists, so you can feel it or touch it; Visual texture is created using marks to represent							
colours, which means they can't	Pattern	repeating lines, shapes, tones or							
	Colour	colours, which means they can't							

B. Key Knowledge 1: Decorative Stitch names



D. Key Knowledge 3: Key Words

Pattern- In sewing and fashion design, a pattern is the template from which the parts of a garment are traced onto fabrics before being cut out and assembled. Patterns are usually made of paper. **Seam allowance** is the extra space you add around the edge of a pattern piece so that it can be sewn together.

Seam- a line where two pieces of fabric are sewn together in a garment or other article

Applique- decorate (a garment or larger piece of fabric) with pieces of fabric to form pictures or patterns

CREATIVE ARTS 3D DESIGN TEXTILES

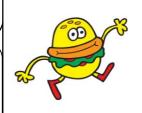
Project – CRAZY CHARACTERS (SOFT SCULPTURE)

C. Key Knowledge 2: Design your own Jon Burgerman character and experiment with Shape and Colour



E. Expert Modelling: Research the following artists / designers and write 3 interesting facts

John Murphy - Sock Monsters







Jon Burgerman

Jenny Strunge

F. Wider thinking / further reading: Watch this video to help you with making a sock character https://www.youtube.com/watch?v=6Ju_NxDHvpo

Yr8 Art New Perspectives Project - Knowledge Organiser 3

Career Links: Architect, Illustrator, Fine Artist



'Notre Dame Cathedral' Paris 1163 Gothic Architecture

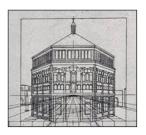


Diagram of Filippo Brunelleschis Perspective Technique 1420



'Casa Batllo' Barcelona by Antoni Gaudi, 1906



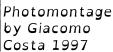
'Bridge' painting by Lyonel Feininger 1912



'Habitat 67' by Moshe Safdie 1967,



Palazzo Ca D'oro II by lan Murphy, 2015





Painting Perspective:

Atmospheric perspective the effect that the atmosphere has on the tone and colour of a landscape when it is viewed over a distance.

3 key techniques to create the illusion of depth and distance in a landscape:

- The size of objects become smaller the further they are from the viewer.
- There is less details in objects that are further away from the viewer.
- The colours of objects begin to fade the further they are from the viewer.

Painting Key Terms:

- Atmospheric perspective
- There are 3 components in a landscape painting - The Foreground, Mid-ground & Background
- Monochromatic colour= tints and shades of one colour



Drawing & Perspective:

Perspective is the art of representing 3D objects on a 2D surface to create the illusion of space. Have you noticed that things look bigger if they are close to you and smaller if they are further away? This is perspective. The invention of linear (one-point)perspective in art is attributed to the Florentine architect **Brunelleschi** in the early 15th century. He observed that with a fixed single point of view, parallel lines appear to converge at a single point in the distance.

Depth = Depth in art refers to making objects appear closer or farther away and making a two-dimensional image seem three-dimensional.

Perspective Key Terms:

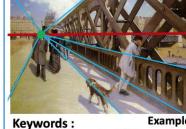
- Linear (one point) Perspective
- Vanishing Point, Horizon Line
- Parallel Lines, Converging Lines
- Depth, Distance

Background Mid-ground Foreground





- Lvonel Feininger 2. William Ratcliffe
- Both paintings show use of atmospheric perspective



Vanishing point Horizon line All lines going into the distance must intersect the vanishing point, these are called converging lines

Art History- Key Terms & Facts:

alongside Kandinsky. He was one of the most famous modern artists in Germany who was born and grew up in New York City, traveling to Germany at 16 to study and perfect his art. Antoni Gaudí was a Spanish architect famous for his own distinctive style of architecture. **Architecture** = the art or practice of designing and constructing buildings. Gaudi got some ideas from Neo-Gothic architecture, Art Deco and Oriental techniques and became part of the modernist movement in the late 19th and early 20th centuries. Most of his work is located in Barcelona, including the church of the Sagrada Família. Giacomo Costa is an Italian mixed media artist who creates imaginary and creating dystopian landscapes through manipulated photography. His photomontages have an environmental message about sustainability & reducing human impact on our world. **Photomontage =** a montage constructed from photographic images.

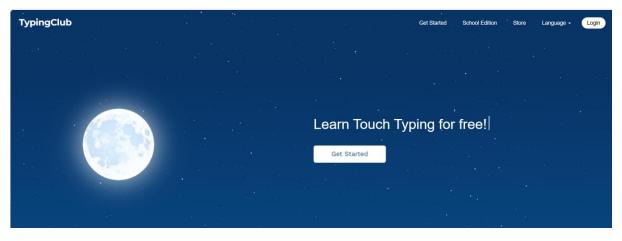
Lyonel Feininger was a cartoonist and leading figure of the Expressionism art group

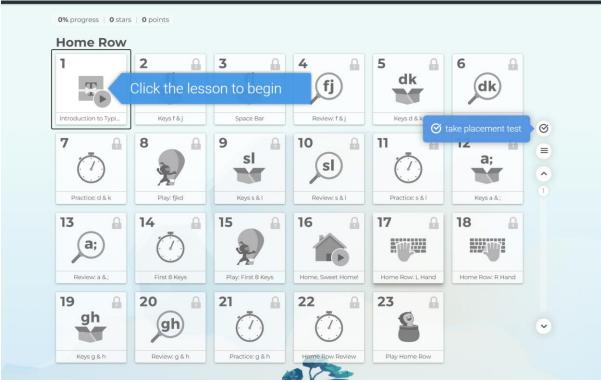
KS3 COMPUTER SCIENCE KNOWLEDGE ORGANISER CYCLE 3

www.typingclub.com

Learning to touch-type can improve your speed and efficiency at the computer. Typing skills can also help you grow your confidence at school and/or in the workplace. Depending on how you learn, typing might improve your spelling skills and writing fluency too

Using the login details provided to you in class follow the activities and increase your place on the class leader board!





	Week 1	Week 2	Week 3	Week 4	Week 5
	Staging Vocabulary	Types of Theatre	Costume Vocabulary	Key Words & Definitions	Lighting
					Flood light: to
	Staging:	Conflict:	Muslin:	Performance skills Timbre	wash the stage
	The use of the stage as a	The internal of external	A simply woven cotton	•	with general
	design element,	struggle between opposing	fabric used to make the		lighting.
	considering: choice of stage;	forces, ideas or interests	costume mock up. Also	Posture - Rhythm	
	positioning of entrances and	that create dramatic	called unbleached cotton.	7	Ground row:
	exits, set items, stage	tension.	Personal props	voice	Floodlight
	furniture, levels; awareness	Denouement:	Small props that are usually		battens placed
	of audience; creating an	A moment in a drama when	carried in a performer's	Performance skills:	on stage.
	appropriate space for	the essential plot point is	costume, such as, money or	Skills used by performers	
	performers and audience.	revealed/explained.	a pen.	including vocal skills,	Baby spot:
m	Block:	Farce:	Quick change:	physical skills, use of space,	Small spotlight under 500
ļ iii	Wooden cuboid box used as	An extreme form of comedy	A change of costume that	facial expressions, posture	watts.
ב	stage furniture in non-	depending on quick tempo	needs to happen very	etc.	Bar:
CYCLE	naturalistic performances.	and flawless timing.	quickly. Costume is usually	Posture:	Metal tube used for hanging
1		Melodrama:	fastened with Velcro or zips.	Physical alignment of a	lanterns.
DRAMA	Staging Types: Traverse	A style of play which	Swatch:	performers body or a	Lighting plot:
₩	Staging	originated in the 19 th	A sample of fabric to	physical stance that conveys	Lighting cue description.
R.	A traverse stage is a form of	century, relying heavily on	demonstrate the material to	information about a	Level:
8	theatrical stage in which the	sensationalism and	use on a costume or set	character.	Intensity of light.
2	audience is predominantly on	sentimentality.	design, or a sample of gel	Rhythm:	Master:
YEAR	two sides of the stage , facing	Parody:	lighting.	Measured flow of words or	Lever/slide which controls
-	towards each other. The stage	A mocking or satirical	Wardrobe:	phrases in verse forming	all lights.
	is also commonly known as an	imitation of a literary or	The general name for the	patterns of sound.	
	alley or corridor stage.	dramatic work.	costume department, its	Timbre:	Task: Describe a scene
		Protagonist:	staff and the	The distinctive character or	where you could use a
		The main character or hero	accommodation they	quality of a musical or vocal	floodlight to enhance a
		in the play.	occupy.	sound apart from its pitch	physical theatre scene?
		Satire:		or intensity, such as a nasal	
	STAGE	A play in which sarcasm is	Task: Describe the personal	quality of voice.	
	NOE NOE	used to mock and create	props that Jake, Polly and	Voice:	
		irony in relation to social	Buzz might have.	The combination of vocal	
		norms.		qualities a performer uses	
				such as articulation,	
				phrasing and pronunciation.	

Sparx Reader

Your English homework is to complete your Sparx Reader homework online.

You can access Sparx Reader by typing it into an internet search function, or you can sign into Sparx Maths, click 'Menu' and access Sparx Reader there.

You will not be able to complete Sparx Reader as your homework until you have completed the Sparx Reader test in one of your English lessons. If you have not yet completed this test, please use the following pages of the KO as your English homework, using the 'look, cover, write, check' method.

Once you are using Sparx Reader as your homework, you do not need to do the KO as well. If Sparx Reader does not work for any reason, return to completing the KO until you can access Sparx again. If your Sparx Reader is not working, let your English teacher know as soon as you can.

What do I have to do on Sparx Reader?

Select a book, read it and answer the questions that pop up as you read. The questions are checking your understanding of the book.

How will I know I have completed my homework?

Your target is to reach 300 SRP (Sparx Reader Points) every week. 300 SRP = roughly 30 minutes of reading. You get points by correctly answering questions. You get more points if you answer a question correctly the first time. You get more points the more carefully you read — Sparx Reader knows when you have read too quickly or improperly, which stops you from getting as many points.





Next >

Task Progress

When will my homework be due in and checked?

Your English teacher will decide what day of the week you have to complete your homework by and they will inform you of this day. Don't worry if your homework is due a different day to your friend's homework; go by what your teacher has told you.

What do I do if I'm confused or stuck?

Ask your English teacher as soon as you can – they will be able to help you with any questions you may have.



ENGLISH Start with Week 1. Each week, complete the next colour block. Write each word out 3 times and each definition once. Write as much of the theme/character information as you can remember. Check it all with a purple pen. Tick what is correct, fix what is wrong.

Coon	nbeshead Academy	Inspiring Excellence	English Learning Area				Year 8	key terms and Shakespeare	
wk	keyword	definition	example						
	Verb	Words that show an action, occurrence or state of being.	The man ran (action). The man became a rocket (occurrence). The man was a rocket (state of being).			1. Wri	-	ce containing a verb that	
	Adverb	A word that modifies a verb.	The man ran quickly . The woman ate hungrily .		1.1		ws an action. at do you notice abo	out the ending of the	
	Adjective	A word that modifies a noun.	The red door. The blue sky.		Week		erbs? Write two of goy this sentence: 'Th	your own. le sea attacked the shore.'	
Week 1	Exclamation marks			Add an adjective to describe the sea and the shore. Draw a picture to show the sentence you wrote for question 3!					
	Tone	The overall attitude or mood of a text.	Using exclamation marks can create an angry or impatient tone.			l indicate	To point out, show or imply	She highlighted the sentence to indicate how important it was to her argument.	
	imagine	form a mental image or concept of.	she imagined him at his desk, his head in his hands			sufficient	Enough, adequate	She was concerned she hadn't provided sufficient evidence to support her theory.	
	Pronoun	A word that replaces a noun.	Fred went to the shop. He bought some milk.			Diggin	Digging Deeper:		
Week 2	Simile Sim/a/lee	Where things are compared using 'like' or 'as'.	"Too rude, too boist'rous, and it pricks like thorn."			 What other pronouns can you think of? Write a simile to show the sun in Verona. 			
3	Metaphor Met/a/for	Where things are compared by saying that something 'is' something else.	"Her chariot is an empty hazelnut"		Week 2	3. Write a metaphor to show how hot the weather is.			

	Semi colon	; used to join two main clauses	Obama: We are one; while we breathe, we will hope.		Draw a picture to show one of the example similes.				
	Imperative sentence	An imperative sentence is a sentence that gives the reader an instruction, makes a request, or issues a command. They start with 'bossy verbs'	"Deny thy father and refuse thy name".		attain	Succeed in accomplishing something. To reach a goal.	Only by sustained effort would he be able to attain his goals.		
	determined	having made a firm decision and being resolved not to change it.	Romeo and Juliet were determined to be together, no matter the cost.		valid	Actually supporting the intended point of claim Having a sound basis in logic or fact	She had to admit that it was a valid criticism, her work was poorly presented.		
	Noun	The name of a person, thing or place.	Billy is in my class. Put the pen on the table . I am going to Exeter at the weekend.		Digging Deeper: 1. Write a sentence that contains the name of a person and place. 2. What other texts have we looked at in Year 8? 3. Research and write down the name of 3 other plays that Shakespeare wrote.				
	Text	A book or other printed or written work.	'The Woman in Black' and 'Anne Frank's Diary' are both examples of texts.						
	Playwright Play/right	A person who writes plays.	Shakespeare was a playwright.	Week 3	leari	Watch this video on The Globe Theatre. Write down 3 things you learn about going to the theatre in Shakespeare's time. https://www.youtube.com/watch?v=D1rbtHchv1g			
m	colon	Colon : Can be used before a list or before reported speech	There are two choices at this time: run away or fight.		intps	s.//www.youtube.com/watch: v-	-D Houridivig		
Week	stagecraft	The technical aspects of theatre production.	Lighting and scenery are both elements of stagecraft .		To invent a plan, system or object using your intelligence and/ or imagination.		They needed to devise a strategy to ensure they won the competition.		
	Necessary	Obligatory / required/ compulsory (never eat crisps, eat salad sandwiches and remain young)	It could be argued that what Romeo and Juliet did was necessary.		communicate	Share or exchange information or ide	· ·		

						Convey an emotion	ideas in an easily
						or feelings in a non-	understood and
						verbal way	simple way.
	Connective	A word or phrase that connects words/sentences.	Similarly, however, on the other hand.			g Deeper:	oribo Iuliot
	Audience	The person/people a text is written for.'	'Romeo and Juliet' would have originally been performed to an	4	1. W	rite down 3 adjectives to des	cribe juliet.
	Or/dee/un/ s		Elizabethan audience.	Week 1	in	ow you know more about how women were Elizabethan times, how does Juliet's charachis idea? To you think the Capulet family are right to the peep her from Romeo?	
	Purpose	The reason a text is written.	Shakespeare would have originally written the play to entertain the monarch.				y are right to try and
	Elizabethan	The time period in which Elizabeth I was Queen.	The Elizabethan audience would have had very different values to a modern audience.		k		
				Write the first paragraph of a diary entry fro explaining her feelings.			
4			Romeo uses an analogy when he compares Juliet to the sun.			1 cite or appeal to	The muted
Week						someone or something as	
		CAPIGNATION				an authority for an action	-
	analagy				invoke	or in support of an	designed to invoke feelings of
	analogy				lilvoke	argument2 2 to call on a deity or	calm and
						spirit in prayer, as a	peacefulness.
						witness, or for	peacerainess.
						inspiration	
		in spite of the fact that; even though.	Although there was no sun, it			Show to be involved in	Their close
			was pleasantly warm.			wrongdoing or a criminal	friendship meant
						act	that he was
	although				implicate	Convey a meaning	implicated in the
						indirectly through what	scheme.
						one says, rather than	
						stating it explicitly	

	Dialogue		There is lots of dialogue between Romeo and Juliet.		Digging D	eeper:		
	Die/a/log	Speech between two or more characters.						
	Genre	A style or category of literature.	'Romeo and Juliet' belongs to the tragedy genre .	λ Ω	1. Write a sr	mall piece of d	ialogue between	
	Shon/ra			Week	two peopl	le who realise	they have	
	Simple	A clause that contains a subject and a verb.	The woman ate the baguette.		feelings f	or each other.		
	sentence		Subject Verb		2. Research	'Romeo and Ju	liet'. Why does it	
LΩ	ellipses	Ellipses can express hesitation, changes of mood, suspense, or thoughts trailing off.	I don't know I'm not sure. Pride is one thing, but what happens if she?		belong to the tragedy genre? 3. Write two simple sentences to describ your day.			
Week						aw a small storyboard to add an aginary scene to 'Romeo and Juliet'.		
	anecdote	a short amusing or interesting story about a real incident or person.	Juliet's nurse provides an anecdote about Juliet as a baby.		consist	To be composed of or to have as an essential feature	Computer passwords usually consist of a mixture of letters, numbers and special characters.	
	History	The genre of plays about significant individuals throughout history.	Richard III is one of Shakespeare's histories.		investigate	Carry out a system or formal inquiry into an incident/ allegation so as to establish the truth Research into a subject	She has always wanted to be an investigative journalist; she wanted to uncover stories not just report on them.	
	Narrative	A spoken or written telling of events; a story.	The narrative of 'Romeo and Juliet' is two people who fall in love but cannot be together.		Digging Deeper:			
Week 6	Compound sentence	Two main clauses joined with a connective.	The sun was shining and it was hot. Main clause / Connective	Week 6	forbidden from doing something		•	
	Persuasive	Being able to make someone do or think something in particular because of use of reasoning.	The Montague and Capulet families are unsuccessful at trying to dissuade Romeo and Juliet from pursuing each gther.		2 compound sentences.3. With a purple pen, add a rhetorical question to somewhere.			

Per/sway/s iv parenthesis	Punctuation used to seprate a subordinate clause	The young people, who were protesting, wanted change.		https://w qbcmn		topics/zfdj6sg/articles/z7
connotation	an idea or feeling which a word invokes for a person in addition to its literal or primary meaning.	Juliet's angel costume has connotations of purity and innocence.		conceive	To form or device a plan or idea in the mind. To hold as an opinion	Teachers are always trying to conceive innovative tasks to keep students engaged.
acceptable	 able to be agreed on; suitable. able to be tolerated or allowed. 	"pollution in the city had reached four times the acceptable level"		evolve	Develop gradually Undergo slow changes	With new information it is likely that her plans will change and evolve, possibly in unexpected directions.

7	Complex Sentence Monologue Analysis Ana/la/sis	A main clause and a subordinate clause glued together with a comma. A long speech given by one person A detailed examination of something.	Although it was raining, he went outside. Main clause Subordinate clause "What's in a name? that which we call a rose By any other name would smell as sweet" In English, we analyse texts to get an understanding of their deeper meaning.	Week 7	 Write do How is Ro support y Draw an in 	How is Romeo different to Tybalt? Write down a quotation t support your answer.	
Week	Archetype Ar/key/type	An ideal version of something.	Juliet is portrayed as the archetypal naïve young woman.				
	Comic relief	Where humour is used to lighten the tone.	Mercutio and the nurse provide humorous scenes/lines to develop Romeo and Juliet's love.		authority	The power or right to give orders and enforce obedience. The power to influence other based on recognised knowledge or expertise	The fathers of the Capulet and Montague families have authority over other members of the family.
	euphemism	The substitution of a rude or offensive word for a more acceptable one.	"I am fortune's fool!" (this is used instead of saying the 'victim of fate')		bias	Verb: influence unfairly; prejudice Noun: inclination or prejudice for or against a person or thing	The Capulet and Montague families are biased against each other.
	Alliteration Al/it/er/aa/shun	The same letter sound at the start of several words.	'The very pin of his heart cleft with the bow-boy's butt shaft.'		Digging Deepe	r:	
ek 8	Rhetorical Question	A question that is there to cause drama; it does not need an answer.	"What's in a name?"	ek 8	1. Read this webpage: https://www.bbc.co.uk/bitesize/topics/zfdj6sg/articles/zxmckty 2. What are the 3 key themes in the play? Write one sentence to		
Wee	Question mark	The punctuation that goes at the end of a sentence.	"What's in a name ? "	Wee	3. Drawn an ima	ow each of them are importan age to represent each key the	me in the play. Use an
	Exclamation marks	Punctuation used at the end of a statement- used to show Romeo's excitement when he first sees Juliet.	"Forswear it, sight! For I ne'er saw true beauty till this night".		image from the play itself, e.g. a character.		

	Hyperbole	Language that is exaggerated for dramatic effect.	"A plague on both your houses!" Mercutio says this after he has been injured to emphasise how much other people are being affected by the feud.		context	The circumstances that form the setting for an event, statement or idea, and in terns of which it can be fully understood.	It is important to look at the contextual clues when trying to work out the meaning of a text.		
	Imagery	Use of language that is particularly descriptive or symbolic.	Romeo comparing Juliet to the sun demonstrates how beautiful and radiant he thinks she is.		modify	Make partial or minor changes	The design required a small modification to allow easy mass production.		
	Protagonist	The main character in a story/narrative.	Romeo and Juliet are the protagonists in the play.		-	Digging Deeper: 1. Write down everything you have learned about			
	Triplet/Rule of Three	When three words/ phrases/ideas are used to create effect	"Romeo, Romeo, Romeo!"		Friars. 2. How could the Friar's behaviour be interpreted?				
	Fronted Adverbial	An adverb, or phrase that works like an adverb, at the start of a sentence	As Juliet stood on the balcony, Romeo declared his love for her.		Hint: It could be seen as c OR m				
e 6 9	Irony	Where the meaning of something is the opposite of what is expected.	The Friar's suggestion that Juliet fake her own death is ironic because he is a man of God.			of Romeo and Juliet?			
Week	Juxtaposition	A contrast in ideas with a purpose to compare them.	The wedding of Romeo and Juliet versus the street fight that happens in the next scene.	affect		To have an effect To make a difference to	He knew that the decisions make now would affect his future.		
	satire	Where humour is used to ridicule someone's intelligence.	The feud of the Montagues and Capulets is satirical because they create huge conflict over silly things.		denote	Be a sign of/ indicate Stand as a name or symbol	The colour white is frequently used to denote peace or innocence.		
Wee	Antagonist	The character that goes against the main character creating conflict.	Nearly every character in the play is an antagonist because they all stand in the way of Romeo and Juliet's love.		Digging Deeper: 1. Research another example of a famous feud.				

Tension	The feeling of nervousness or worry about what may happen in a story.	The audience feels tension when Mercutio is injured and dying.		ever	ou think a feud can ever be gain anything from it? Why? e an alternative ending for t	,
Trope	A particular character or setting that is frequently used in stories.	Juliet is an example of the 'damsel in distress' trope .		have	have to die? How will the Friar be prese	
Aside	A section of speech not intended to be heard by the audience.	Romeo and Juliet both use asides to reveal their feelings about each other to the audience.				
Dramatic Irony	Where the audience is aware of something that the characters are not.	In the prologue, Shakespeare writes that the lovers will 'take their life'. The audience know that Romeo and Juliet will die, but the characters do not.		focus	Verb: pay particular attention to Noun: the centre of interest or activity	There were so many distractions in the room her was finding it difficult to focus on his homework.
exposition	Information provided to introduce the audience to crucial background information.	Dialogue, stage directions and description are all used for this purpose.		refute	To prove something to be false.	The solicitor was trying to refute the claims of the accuser.

Year 8 Extension Task: Create your own storyboard of key scenes in the play. Draw a picture to show the key scenes and then write a key quotation underneath each one.

Yr 8 Food & Nutrition FOOD SCIENCE

Week 1 & 2

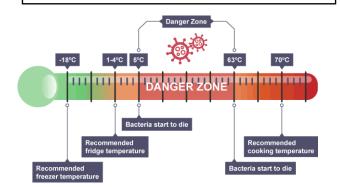
Food Poisoning bacteria, symptoms and causes

Food safety advice when handling food:



How do bacteria grow?

Bacteria double every 10-20 minutes in the right conditions (asexual) e.g. 1 becomes 2, then 4, then 8 through binary fission



Definitions:

- Food poisoning is an illness caused by eating contaminated food. It's not usually serious and
 most people get better within a few days without treatment. In most cases, food is
 contaminated by bacteria.
- High-risk foods: ready-to-eat foods high in moisture and protein

Food poisoning bacteria and symptoms

Name of bacteria	Foods it can come from	
Salmonella	Undercooked poultry Eggs Unpasteurised milk	
Listeria	Soft cheeses, pate	
Campylobacter	Poultry, milk and milk products	
E-coli	Undercooked meat – especially burge Unwashed contaminated fruit	

Symptoms of food poisoning:

- Vomiting Stomach pains
- Diarrhoea Dehydration
- Nausea

Questions:

- 1. What are the 5 main things that bacteria need to grow?
- 2. What are the main symptoms of food poisoning?
- 3. How could you control or stop bacterial growth?

Week 3 & 4

Cooking of food and heat transfer

We cook foods for many different reasons including:

- 1. To destroy harmful bacteria
- 2. To improve colour, flavour, smell and texture of food
- 3. To make food last longer
- 4. To make the diet more varied

Heat is transferred to foods by 3 different methods:

- Conduction
- Convection
- Radiation

Mechanisms of Heat Transfer



Conduction is when the heat travels through solid materials like metal as well as food. Heat is conducted from molecule to molecule in a liquid or solid. Metal saucepans usually have plastic or wooden handles so that they don't conduct too much heat when they're used.

Convection is when heat travels through air or water. The movement of heat in water or in the air is called the convection current. Boiling water is an example.

Radiation is when heat rays directly warm and cook food. Heat travels from one place to another. A microwave, grill or BBQ are good examples of radiation heat transfer

Questions:

- 1. Explain three reasons why we cook food.
- 2. What are the 3 methods of heat transfer used when cooking?
- 3. Name three foods that can be cooked by radiation
- 4. Name 3 foods that can be cooked through conduction
- 5. Name 3 foods that can be cooked through convection

Week 5 & 6	Week 7 & 8	
Shortening and aeration	Denaturation and coagulation	

Butter, oil and fat spreads are types of fats

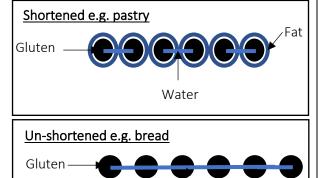
Fats have lots of different functions when used in cooking

2 really important functions that fats have are shortening and aeration

Adding fat to biscuits and pastries gives a crumbly texture and is called shortening.

When fat is rubbed into the flour using the fingertips, fat surrounds the gluten in flour and creates a waterproof coating

This will stop the water becoming absorbed into the flour creating a "short" texture and stops biscuits and pastry becoming tough



Water

Definitions:

- Aeration is when air is trapped in a mixture. Air needs to be added to mixtures to give a springy texture.
- Stable foam = a lasting foam where the air stays trapped in the mixture until its baked
- Caramelisation is when sugar is heated and starts to turn from clear to dark amber colour with a deeper flavour developing. Over-heating creates a black colour and bitter taste.

Questions:

- 1. Describe what shortening is, how it happens giving an example
- 2. Describe what aeration is, how it happens giving an example
- 3. Describe the difference between a shortened food and an un-shortened food
- 4. Give 3 foods that have natural sugars that would caramelise during baking

Eggs are a really good source of protein and contain all of the essential amino acids

In certain conditions protein can denature (change shape) and then coagulate (set)

Denaturation: happens when long chains of amino acids that make up protein unfold. There are 3 ways to denature proteins:

Mechanical action

- When egg whites are whisked, the protein in the egg white will denature
- The protein stretches into strands and allows air to be trapped in the structure
- If whisking continues, a gas-in-liquid foam is formed

Using an acid

- Vinegar is added to the water to speed up the denaturation of the egg protein when poaching.
- Lemon juice is used in marinades. The acid will start to denature the protein before its cooked to tenderise.

Using heat

Proteins denature when heated. This is the first stage of coagulation (setting)

Coagulation:

Coagulation happens when the protein in food sets during the cooking process.

Eggs change at different temperatures when they're cooked:

- Egg white goes hard and coagulates (sets) at 60°C
- Egg yolk coagulates and becomes hard at 70 °C

Questions:

- 1. What is the main nutrient found in eggs?
- 2. What are the 3 main methods of denaturation?
- 3. Explain why an egg white can be set, but the yolk is still runny after cooking
- 4. Describe the difference between denaturation and coagulation

Year 8 French Cycle 3



Instructions

- Look at the list of 12 words/phrases and practice saying them
- Cover the English side and try to say them to yourself, then write them down.
- Check your answers
- Repeat until you can remember all 12
- Keep doing this regularly until you are confident!

Challenge: Can you cover up the French side and remember all 12 including the spellings?

You have **two** weeks to revise each vocabulary list at home.

You will then be tested in class on how well you know all 12 words/phrases.

Bon Courage!

Test 1 – Future plans- jobs LC3

FRANCAIS	ANGLAIS
1. J'aime le dessin	I like art
2 la détacta l'informations	Lhota ICT / Computer Coiones
2. Je déteste l'informatique	I hate ICT / Computer Science
3. Donc à l'avenir	So in the future
4. Je vais devenir avocat / avocate	I'm going to become a lawyer
5. Je vais devenir coiffeur / coiffeuse	I'm going to become a hairdresser
6. Je vais être employé(e) de bureau	I'm going to be an office worker
7. Je vais être médecin	Im going to be a doctor
O. Dores and so some monitol	December it will be great
8. Parce que ce sera genial	Because it will be great
9. Parce que ce sera éducatif	Because it will be educational
10. J'adore l'EPS alors un jour je vais	I love PE so one day I'm going to
devenir professeur(e)	become a teacher
11. Dans le futur je vais être	In the future I'm going to be a
-	In the future I'm going to be a
journaliste car ce sera chouette	journalist because it will be great
12. Un jour je vais être scientifique car	One day I'm going to be a scientist
ce sera intéressant	because it will be interesting

Test 2 – My ambitions LC3

FRANCAIS	ANGLAIS
1. Mon rêve est de travailler dans les	My dream is to work in the sciences
sciences	
2. Je ne veux pas travailler dans la	I dont want to work in catering
restauration	a com training
3. Mon but est de faire mon carrière	My goal is to have a career in the
	My goal is to have a career in the
dans les medias	media
4. Mon ambition est de travailler	My ambition is to work in business
dans le commerce	
5. Je ne veux pas faire carrière dans	I don't want to have a career in
l'informatique	computing
6. Mon but est de travailler dans la	My goal is to work in technology
technologie	
7. Car c'est un métier bien payé	Because it is a well-paid job
8. Car c'est un métier enrichissant	Because it is an enriching job
9. Car c'est un métier fatigant	Because it is a tiring job
	3 ,
10. Car c'est un métier affreux	Because it is an awful job
	,
44	Lorent te vocale in leatele 1
11. Je veux travailler dans l'hôtellerie	I want to work in hotels because it's
car c'est un métier stimulant	a stimulating job
12. Je veux devenir professeur(e) car	I want to become a teacher because
c'est un métier créatif	it's a creative job
	1

Test 3 – Next steps LC3

FRANCAIS	ANGLAIS
1. Après avoir fini mes examens	After having finished my exams
2. À l'avenir je vais faire un	In the future I'm going to do an
apprentissage	apprenticeship
3. Je vais étudier au lycée	I'm going to study at sixth form
	college
4. Je vais faire du bénévolat	I'm going to do some volunteering
5. Je vais faire une année	I'm going to have a gap year
sabbatique	3 3 3 3 7 7 3 3
6. Avant d'aller à l'université je vais	Before going to university I'm going
étudier l'anglais	to study English
7. Ce sera fascinant	It will be fascinating
8. Ce sera essentiel pour moi	It will be essential for me
o. Ce sera essentiei pour moi	it will be essertial for the
9. je veux aider les gens	I want to help people
10. J'ai hâte de le faire	I can't wait to do it
11. Je vais faire un stage en	I'm going to do work experience
entreprise car ça m'intéresse	because it interests me
12. Je vais étudier les maths car c'est	I'm going to study maths because it
ma passion	is my passion

Test 4 – Celebrations LC3

FRANCAIS	ANGLAIS
1. D'habitude	Usually
	T 11 (O) ()
2. Pour fêter noël je danse	To celebrate Christmas I dance
3. Je mange trop de chocolat	I eat too much chocolate
o. de mange nop de onedelat	T dat too madir onocolate
4. Pour fêter mon anniversaire je	To celebrate my birthday I go
fais du bowling	bowling
5. Tous les ans on mange un grand	Every year we eat a big meal
repas	
6. Normalement on fait la fête	Normally we have a party
7. Pour fêter noël je fais la fête avec	To celebrate Christmas I celebrate
mes amis	with my friends
8. Je mange au restaurant avec mon	I eat in a restaurant with my best
meilleur ami	friend
9. D'habitude on va en vacances	Usually we go on holiday with my
avec mes grandparents	grandparents
10. Tous les ans je reçois des	Every year I receive presents
cadeaux	
11. On célèbre en famille et je regarde	We celebrate with the family and I
un film au ciné	watch a film at the cinema
12. Pour fêter mon anniversaire, je	To celebrate my birthday I dance
danse avec ma soeur	with my sister

Test 5 - Last year or next year ? LC3

FRANCAIS	ANGLAIS
1. L'année dernière	Last year
2. L'année prochaine	Next year
3. L'année dernière j'ai mangé au	Last year I ate in a restaurant
restaurant	
4. L'année dernière on est allés en	Last year we went on holiday
vacances	
5. On a célébré en famille et c'était	We celebrated with the family and it
cool	was cool
6. Pour fêter noël j'ai mangé trop de	To celebrate Christmas I ate too
chocolate	much chocolate
7. L'année prochaine je vais	Next year I'm going to receive
recevoir des cadeaux	presents
8. L'année prochaine je vais faire du	Next year I'm going to do bowling
bowling	
9. On va faire la fête	we are going to have a party
10. On va manger un grand repas ce	We are going to have a big meal it
sera mieux	will be better
11. L'année dernière j'ai dansé mais	Last year I danced but next year I'm
l'année prochaine je vais faire la	going to have a party. It will be
fête. Ce sera pire	worse
12. L'année dernière j'ai regardé un	Last year I watched a film but next
film mais l'année prochaine je vais	year I'm going to eat in a restaurant.
manger au restaurant	





Week 1 – Friday	28 th March 2025	Week 2 – Friday 4 th April 2025		
Lesson 1 – Types of industry	Lesson 2 – UK Industrial change	Lesson 3 – Industry in the 21st century	Key Word Practice	
Key Terms: Industry: A type of economic activity that creates jobs and income. It is split into 4 sectors.	Key Terms: Mechanisation: Changing from making products by hand to making them with machinery.	Key Terms: Brownfield sites: Land that has been used, abandoned, and now awaits a new use. Usually found in urban areas.	1. Industry	
Manufacturing: Making of products by hand or machinery.	Imports: Goods that are bought in from another country.	Derelict: A building or a piece of land is deserted or abandoned.	2. Primary3. Secondary	
Content: Primary sector: Extraction of raw materials from the environment e.g. farming, fishing, mining.	Content: When a country develops, it is likely the percentage in primary and secondary industries decrease due to	Content: Loss of primary and secondary industries has led to brownfield sites like derelict factories.	4. Tertiary	
Secondary sector: Production and manufacturing of good from raw	mechanisation. Cheap imports will decrease	Tourism is the fastest growing industry in the UK. It accounts for 11% of UK	5. Quaternary	
materials and making them into new products.	secondary industries. Education will increase tertiary and	total employment and 10% of UK GDP. Some old factories/ quarries have been regenerated into Eden	6. Mechanisation	
Tertiary sector: Providing a service such as hairdressers, banks, supermarkets or cinemas.	quaternary industries.	Project and Adrenalin Quarry. The service industry is changing as	7. Imports	
Quaternary sector: Research and development and other hi-tech	0	many of these jobs are replaced with online shopping and automation.	8. Education	
industries. Workers are highly skilled and educated.	160 AD pre-industrial industrial post-industrial post-industri	Jobs will be completed more efficiently, safely and quickly with the help of technology and use of Al and drones.	9. Brownfield	
Questions: 1. What does industry mean? 2. What does manufacturing mean? 3. What is the primary and secondary sector? 4. What is tertiary and quaternary sector?	5. What does mechanisation mean?6. What causes the primary and secondary sectors decrease?7. What does cheap imports do?8. What does education do?	Questions: 1. What are brownfield sites? 2. How is tourism affecting the UK? 3. How is the service industry changing? 4. How will Al and drones help jobs? 5. Copy out each key word 3 times	10. Derelict	





Week 3 – Frida	y 25 th April 2025	Week 4 – Friday 2 nd May 2025		
Lesson 4 – The quaternary sector	Lesson 5 – Rise of China	Lesson 6 – A world of TNCs	Key Word Practice	
Key Terms:	Key Terms:	Key Terms:		
Science Park: A purpose-built cluster	Absolute poverty: A person or	Transnational Corporation (TNC):	1. Knowledge economy	
of office spaces, labs, workrooms and	household does not have the	Large companies that operate all of		
meeting areas designed to support	minimum amount of income needed	the world.		
research and development in science	to meet the minimum living	Labour: Workers within an industry.	2. Quaternary	
and tech.	requirements.	LIC: Low Income Country		
Knowledge economy: Production of	Special Economic Zones (SEZ): Area	NEE: Newly Emerging Economy		
goods and services based on	of a country with different economic		3. Cambridge	
knowledge activities.	rules than the rest of the country.			
Content:	Content:	Content:		
The quaternary industry is sometimes	Before 1978, China was a relatively	TNCs usually have their headquarters	4. Absolute poverty	
referred to the knowledge economy	poor country. 88% of people lived in	in one country where they research		
as they develop ideas and original	absolute poverty.	and design new products.	5 Faraina	
unique products.	Lie 1070 the a great arrange and arrange at	TNICe we also and decomplete also	5. Foreign	
Seignee newlee are usually located	In 1978 the government created	TNCs make and manufacture		
Science parks are usually locatedThe edge of cities	Special Economic Zones (SEZ) which boosted the economy and	productions in LICs/NEEs. This is due to cheap labour, and lack of	6. Manufacturing	
They have good access to public	modernised the country.	environmental laws. This allows them	8. Mandactoning	
transport and motorway	Thodemised the coomity.	to pay less.		
They have lots of green space	Foreign countries now invest and it is	10 pay less.	7. Transnational corporation	
• Space for expansion	the world's second largest economy	They do give people jobs, invest in	7. Haristanorial corporation	
Near universities	after USA.	infrastructure and improve the		
Trodi oriir oromos		economies of LIC/NEEs.	8. Labour	
Cambridge Science Park is located in	Many people work in manufacturing,			
the east of UK. It is north of London. It is	taking 500 million people out of	TNCs have been accused of		
close to the M11 and M25	poverty. Some of the jobs are low	exploiting people and the	9. Environmental	
	paid. China is the largest emitter of	environment.		
	CO_2 .			
Questions:	5. What is absolute poverty?	Questions:	10. Infrastructure	
1. What is a science park?	6. What was China like before 1978?	1. What is a TNC?		
2. What is a knowledge economy?	7. What happened in 1978?	2. What do TNCs do?		
3. State 5 location factors for science	8. What is China like today?	3. What do TNCs give people?		
parks		4. What are TNCs accused of?		
4. Where is the Cambridge Science		5. Copy out each key word 3 times		
Park?				





Week 5 – Frido	ıy 9 th May 2025	Week 6 – Friday 16 th May 2025		
Lesson 7 – Smartphone production	Lesson 8 – Impact of industry	Lesson 9 – Site and Settlement	Key Word Practice	
Key Terms: Components: A part of a larger product.	Key Terms: Exploitation: Using someone unfairly for someone else's advantage.	Key Terms: Settlement: A place where people live e.g., village, town, city.	1. Components	
	Extraction: The action of removing something.	Site: The land the settlement was built on.	2. Quaternary	
Content: The Apple iPhone is designed in California, USA (a HIC) in the	Content: Impact on people: • People in HICs lose their jobs.	Content: Most settlements have a primary function or industry (the reason	3. Tertiary	
headquarters This is the quaternary sector.	 People in LICs/NEEs have new jobs. Workers may be exploited. TNCs promote relationships between 	people settled here although this changes over time).	4. Exploitation	
Raw materials are mined (primary sector) and then made into the different components in at least 10	countries. Impact on the environment:	The function of a settlement helps to identify the economic and reasons for development of a place.	5. Extraction	
different countries.	 Factories in HIC and left derelict. Increase in air and water pollution More emissions are being created. 	The original functions include:	6. Environment	
All these components are then assembled in a factory in China (this is in an SEZ) which is an NEE. Apple take	Extraction of even more raw materials.	 Defensive points (high ground) Bridging points (narrow part of river) Natural harbours 	7. Emissions	
advantage of the cheap labour and relaxed environmental laws. This is secondary sector.		Wet pointsDry pointsFlat valley floors	8. Settlement	
The iPhone is then sent to countries all over the work but mostly in HICs. This is the tertiary sector.			9. Economic	
Questions: 1. What happens in the quaternary? 2. What happens in the primary? 3. What happens in the secondary? 4. What happens in the tertiary?	5. What does exploitation mean?6. What does extraction mean?7. State 4 impacts on people8. State 4 impacts on the environment	Questions: 1. What is a settlement? 2. What is a site? 3. What is the function of a settlement? 4. State 6 original functions 5. Copy out each key word 3 times	10. Function	





Week 7 – Frida	y 23 rd May 2025	Week 8 – Friday 6 th June 2025		
Lesson 10 – Settlement, function & industry	Lesson 11 – Settlement growth & land use	Lesson 12 – Reasons settlements change	Key Word Practice	
Key Terms: Bridging point: Where a river was shallow enough to be crossed or	Key Terms: Natural resources: Materials that occur naturally and can be used by	Key Terms: Greenwich Peninsular: Area of London with modern developments	1. Bridging	
narrow enough to easily build a bridge.	people. Industrial revolution: Making products by machines rather than by hand.	including the O2 Arena. Containership: Ships that carry	2. Defensive	
	CBD: Central Business District. Suburb: Area on the outside of a town/city.	manufactured goods and products between places.	3. Natural resources	
Content: Dartmouth is natural harbour and defensive point which has developed	Content: Settlers chose sites with a farmland, water and protection. Markets to sell	Content: Settlements along the River Thames were small farms. The Romans made	4. Industrial revolution	
into tourist and military port. Totnes has a castle, bridge point and market town.	goods. Businesses started during the industrial revolution. People came from the countryside to get jobs. More	London a bridging point and then developed into docks .	5. Businesses	
Kingsbridge is a market town and a is a bridging point. Newton Abbot had a fort and was a	people lead to more businesses. Structure of a settlement: CBD is where the shops are and the	Secondary industry developed along the River Thames and including the Greenwich Peninsular.	6. Suburbs	
manufacturer of wool. Most large cities in the UK are either	old industrial sector.Inner city has low value housing and old factories.	However, the river was too shallow to accommodate large containerships	7. Greenwich	
natural harbours (Cardiff, Belfast), located on the coast or close to a natural resource such as coal, tin or	Inner Suburbs have slight large houses.	and secondary industry started to locate in NEE. The Greenwich	8. Peninsular	
iron ore (Leeds/ Sheffield).	 Suburbs have the largest houses. New industrial areas locate on the outskirts. 	Peninsular has been regenerated into leisure, tourism and offices.	9. Thames	
Questions: 1. What was Dartmouth function? 2. What was Totnes function? 3. What was Kingsbridge function? 4. What was Newton Abbot function?	5. State 3 reasons why settlers chose a site6. What developed first?7. Why do people leave the countryside?8. List the 5 parts of a settlement	Questions: 1. What were settlements along the River Thames originally? 2. What did the Romans do? 3. What caused industry to move? 4. What is at Greenwich Peninsular now? 5. Copy out each key word 3 times	10. Containership	





Week 9 – Frida	y 13 th June 2025	Week 10 – Frida	ıy 20 th June 2025
Lesson 13 – Sustainable London	Lesson 14 – Growth of Lagos	Lesson 15 – Makoko	Key Word Practice
Key Terms: Sustainable: Meeting the needs of today's population without	Key Terms: Lagos: The largest city on the Atlantic Coast in Nigeria, West Africa.	Key Terms: Informal settlement: An area of low- quality housing, lacking amenities	1. Sustainable
compromising the needs of future generations. Congestion: Occurs when there are	Port: A landing place for ships to load and unload their cargo and	such as a clean water, sewage systems and access to electricity. Informal sector: When workers do not	2. Congestion
too many vehicles for the size of road. Hydrogen: A fuel that uses hydrogen to generate energy.	passengers.	work regular hours and do not pay tax.	3. Consumption
Content: Cities have large carbon footprints from travel, waste, buildings, energy consumption.	Content: Lagos' original function was a small fishing village as it was a natural harbour. The Portuguese developed it	Content: Makoko is an informal settlement located under the 3 rd City Bridge in Lagos and is home to at least 85,000	4. Efficient
London has tried to become more	into a port. It is now a megacity (pop. 14.8m) has	people.	5. Lagos
 sustainable through the use of: Congestion Charging which charges motorists £11.50 to drive into the city. 	the fourth-highest GDP in Africa. One of the largest and busiest seaports on the continent.	It is an informal settlement meaning that the government do not provide rubbish collection, water or toilets or sewers.	6. Harbour
Public Transport is efficient and cheap. Buses and taxis run on natural gas and hydrogen.	Nigeria has large reserves of crude oil and it is its main export . TNCs such as Shell have located here to mine the	Houses are made out of whatever people can find. People work in jobs	7. Megacity
Brownfield sites are being regenerated into new developments.	oil (Primary Industry). Unilever are also located here and make household chemicals (Secondary Industry).	in the formal sector such as fishing. Other people work in informal sector such as selling water, fire wood/	8. Makoko
BedZED is a housing community that aims to be carbon neutral.	It is one of the fastest growing cities in the world due to rural to urban	charcoal or fixing boat engines. Some charities have set up schools	9. Informal settlement
	migration.	but they only have 80 places.	10. Government
Questions: 1. What does sustainable mean? 2. Why do cities have large carbon footprint? 3. What is congestion? 4. State 4 ways London has tried to become more sustainable	5. Where is Lagos?6. What was Lagos' original function?7. What is Lagos' port like today?8. What TNCs have located in Lagos?	Questions: 1. What is an unformal settlement? 2. What is Makoko? 3. What do people work in? 4. What have charities done? 5. Copy out each key word 3 times	

25th March 1st April

Topic: Transatlantic Slavery

Date	Event	
1560s onward	Start of British involvement in the Transatlantic trade in enslaved people. Remember that slavery has existed in many cultures throughout history.	
1700-1800	6 million Africans enslaved and taken to Americas	
1787	Thomas Clarkson launches campaign against slavery	
1804	Successful fight for independence by enslaved people in Haiti. Haiti becomes an independent country.	
1807	The trade in enslaved people in the British empire is banned.	
1833	Slavery Abolition Act – A law that banned slavery in the British empire.	
1861-65	American Civil War – The Union (Northern states) win and slavery is abolished in USA	

Key Word	Definition
REY WOIL	·
slavery	The state of being enslaved (not free)
	A person that has no freedom, is forced to work

slavery	The state of being enslaved (not free)	
enslaved person	A person that has no freedom, is forced to work without pay and treated with no respect. We use this term rather than 'slave' to show that they were people who had been forced into this way of life, it was not, and is not, normal for anyone to be enslaved.	
Transatlantic slavery	Transatlantic = across the Atlantic, i.e. between the west coast of Africa and the Americas. This phrase is used to describe the trade in enslaved people 1500s-1900. It was at its height in the 1700s	
triangular	The three part trading journey between Europe, Africa and	
trade	America.	
middle	The journey from Africa to the Americas on which enslaved	
passage	people were transported in terrible conditions.	
plantations	Huge farms, growing a single crop, that used enslaved people to complete the work. Main crops = cotton, sugar, tobacco	

Questions:

- 1. In your homework book draw a timeline using the information above.
- 2. Try and do some further research about the topics above and add extra information!

Questions:

1. Copy out the definitions.

Topic: Transatlantic Slavery

2. Then use each word in a sentence that makes sense, to do with the topic.

22 nd April	29 th April
Topic: Transatlantic Slavery	Topic - Transatlantic Slavery
Africa before the slave trade: The peoples of West Africa had a rich and varied history and culture long before European slavers arrived. They had a wide variety of political arrangements including kingdoms, city-states and other organisations, each with their own languages and culture. The empire of Songhai and the kingdoms of Mali, Benin and Kongo were large and powerful with monarchs heading complex political structures governing hundreds of thousands of subjects. Art, learning and technology flourished and Africans were especially skilled in subjects like medicine, mathematics and astronomy. As well as domestic goods, they made fine luxury items in bronze, ivory, gold and terracotta for both local use and trade. West Africans had traded with Europeans through merchants in North Africa for centuries. The first traders to sail down the West African coast were the Portuguese in the 15th century. Later the Dutch, British, French and Scandinavians followed. They were mainly interested in precious items such as gold, ivory and spices, particularly pepper. From their first contacts, European traders kidnapped and bought Africans for sale in Europe. However, it was not until the 17th century, when plantation owners wanted more and more slaves to satisfy the increasing demand for sugar in Europe, that transatlantic slaving became the dominant trade.	NORTH AMERICA Whate oil, lumber, furs, rice, silk, indigo, tobacco Whate oil, lumber, furs, rice, silk, indigo, tobacco Whate oil, lumber, furs, rice, silk, indigo, tobacco Atlantic Ocean Atlantic Ocean Atlantic Ocean South America South America
 Homework questions 1. Write a PEEL paragraph explaining what Africa was like before the Transatlantic Slave Trade took place. 2. Why do you think there are lots of misconceptions about what Africa was like before the Slave Trade took place? 	 Homework Questions 1. Draw a triangle in your book. Label this with the continents. Then annotate drawing arrows to show the goods that were traded. 2. Why was it called the 'Transatlantic' slave trade? 3. Why do some people refer to it as the 'trade triangle'?

6 th May	13 th May
Topic - Transatlantic Slavery - Middle Passage	Topic - Transatlantic Slavery - plantations
Enslaver ships spent several months travelling to different parts of the coast, buying their cargo. The captives were often in poor health from the physical and mental abuse they had suffered. They were taken on board, stripped naked and examined from head to toe by the captain or surgeon. Conditions on board ship during the Middle Passage were appalling. The men were packed together below deck and were secured by leg irons. The space was so cramped they were forced to crouch or lie down. Women and children were kept in separate quarters, sometimes on deck, allowing them limited freedom of movement, but this also exposed them to violence and sexual abuse from the crew. The air in the hold was foul and putrid. Seasickness was common and the heat was oppressive. The lack of sanitation and suffocating conditions meant there was a constant threat of disease. Epidemics of fever, dysentery (the 'flux') and smallpox were frequent. Captives endured these conditions for about two months, sometimes longer. In good weather the captives were brought on deck in midmorning and forced to exercise. They were fed twice a day and those refusing to eat were force-fed. Those who died were thrown overboard. The combination of disease, inadequate food, rebellion and punishment took a heavy toll on captives and crew alike. Surviving records suggest that until the 1750s one in five Africans on board ship died.	The introduction of sugar cultivation to St Kitts in the 1640s and its subsequent rapid growth led to the development of the plantation economy which depended on the labour of imported enslaved Africans. African slaves became increasingly sought after to work in the unpleasant conditions of heat and humidity. European planters thought Africans would be more suited to the conditions than their own countrymen, as the climate resembled that the climate of their homeland in West Africa. Enslaved Africans were also much less expensive to maintain than indentured European servants or paid wage labourers. Once they arrived in the Caribbean islands, the Africans were prepared for sale. They were washed and their skin was oiled. Finally they were sold to local buyers. Often parents were separated from children, and husbands from wives. The plantation relied almost solely on an imported enslaved workforce, and became an agricultural factory concentrating on one profitable crop for sale. Enslaved Africans were forced to engage in a variety of laborious activities, all of them back-breaking. The work in the fields was gruelling, with long hours spent in the hot sun, supervised by overseers who were quick to use the whip. Tasks ranged from clearing land, planting cane, and harvesting canes by hand, to manuring and weeding. Inside the plantation works, the conditions were often worse, especially the heat of the boiling house. Additionally, the hours were long, especially at harvest time. The death rate on the plantations was high, a result of overwork, poor nutrition and work conditions, brutality and disease. Many plantation owners preferred to import new slaves rather than providing the means and conditions for the survival of their existing slaves.
 Homework questions 1. What was the Middle Passage? 2. Using 3 adjectives to describe conditions on the Middle Passage. 3. Explain why so many enslaved people were crammed onto the ships. 4. Explain the impact of the poor conditions on the health and survival of enslaved people on these journeys. 	Homework Questions 1. What was a plantation? 2. What crop was grown there, which was in demand in Britain? 3. Describe what work was like for enslaved people there. 4. How were enslaved people treated by their masters?

20 th May	3 rd June	
Topic - Transatlantic Slave Trade - resistance	Topic - Abolition	
Enslaved Africans resisted, or rebelled, against their position as slaves in many different ways. Each expression of resistance by enslaved individuals or groups counted as acts of rebellion against the system of slavery. The many instances of resistance show that slaves were not victims of slavery who accepted their situation. Instead they proved their strength and determination in fighting for their freedom. Uprising, or rebellion, was the most dramatic and bloody way that slaves could resist their enslavement. Less obvious methods of resistance occurred on the plantations. For example, slaves could steal from their owner, robbing him of his property and profit. They could damage machinery, so that it was put out of action and needed either lengthy repairs or costly replacement. The slaves could avoid work, by working as slowly as they dared, or by pretending to be sick. All these acts of resistance carried the threat of punishment if they were found out. There were other ways of attacking slave owners. The children of a slave woman were born as slaves. Therefore, some women would terminate a pregnancy or even kill their new-born babies rather than bring a child into the world to be a slave. In doing this, the women rebelled against the slavery system as well as depriving their owners of another slave. Many enslaved African women had knowledge of medicines made from plants and could use their skills against owners. Plantation owners were therefore anxious that the female slaves who cooked their food might poison them. Some enslaved people tried to run away. Enslaved Africans also fought against slavery by keeping their African cultures and traditions alive in words, names, music and beliefs.	From the 1770s in Britain, a movement developed to bring the slave trade to an end. This is known as the abolitionist movement. The work of politicians, ordinary workers, women and the testimonies of formerly enslaved people all contributed to the British abolitionist movement. In 1807, the British Parliament passed the Abolition of the Slave Trade Act. This ended the buying and selling of enslaved people within the British Empire, but it did not protect those already enslaved. Many enslavers continued to trade illegally. Hundreds of thousands of people remained enslaved. It took a further 30 years of campaigning before slavery was abolished in most British colonies. The abolition of enslavement in the British Empire was not wholly achieved until the Slavery Abolition Act 1833. Protecting profit remained a crucial factor in ending enslaved labour in the colonies. When Britain abolished the practice of enslavement, plantation owners across the British Empire received a share of £20 million, around £17 billion in today's money, in compensation. In contrast, the newly emancipated people received no compensation and were forced into a new apprenticeship scheme, which tied them to their plantations for up to six further years.	
Homework questions	Homework Questions	
 Why is it important to learn about resistance of enslaved people? Describe active methods of resistance used. Describe passive methods of resistance used. What do you think was often the consequence of resistance? What type of resistance do you think would have been most effective? 	 Watch this video and write 3 facts about what caused the abolition: The abolition of the slave trade in Britain - The transatlantic slave trade - KS3 History - homework help for year 7, 8 and 9 BBC Bitesize Name four factors that caused the abolition. State the two laws that banned slavery. Why was there opposition to ending slavery? 	

10 th June		17 th June	
Topic - WW	1	Topic - WW1	
Date	Event	Key Word	Definition
28 th June 1914	Assassination of Arch-Duke Franz Ferdinand in Sarajevo	militarism	the belief that a country should maintain a strong military and be
28 th July 1914	Start of WWI, Britain joins 4 th August		prepared to use it aggressively.
December 1914	On Christmas Day 1914, troops put down their weapons and met in No Man's Land.	nationalism	A belief in your nation (country) and a desire to see it succeed in all things (war, trading, power etc).
January 1916	Britain introduces conscription		
	Battle of Somme- over half a million casualties. 20,000 British soldiers are killed	alliances	Agreements that if one country in the alliance was attacked, the others in the alliance would help them.
1916 6 th April 1817	on the first day America declares war on Germany	imperialism	The belief that you need to have or grow an empire to succeed as a country
11 Nov 1918	The armistice is signed (ceasefire). This marks the end of WW1 after four years of bitter fighting	Triple Alliance	Alliance formed in 1882 between Germany, Austria-Hungary and Italy.
		Triple Entente	Alliance made in 1907 between Britain, France and Russia in response to the creation of the Triple Alliance
Homework quest 1. Using the inkey events.	stions formation above create a timeline to summary WW1	Homework Que 1. Copy out the 2. Then use each	stions definitions. ch keyword in a sentence that makes sense for our topic.

24 th June		1 st July		
Topic - WW1		Topic - WW1		
	Propaganda is exaggerated or even false information that is published in order to influence people.	CAU	JSES OF WORLD WAR I (M.A.I.N.)	
	All men aged 18-41 forced to register for Military service. Britain introduced this in Jan 1916.		Imperialism and nationalism led to increased production of goods and economic stability in these countries, which resulted in an arms race. The aggressive	
	Name given to the series of deep ditches dug for defence. Soldiers fought and lived in these on the front line during WWI.	Militarism	attitude of this policy drove them into producing more weaponry, such as strong navies and armored vehicles.	
morale	How good or bad a person feels about a situation	_	The alliances of Europe were formed for protection against each other. However, the Triple Entente and the Triple Alliance very quickly took aggressive	
inevitable	Something that cannot be avoided	Alliances	postures towards one another. This is due in large part to the lack of any global organization designed to promote peace among the nations of the world.	
armistice	A formal agreement by both sides to temporarily end any fighting		European countries divided up Africa and Asia to strengthen the political and	
assassination	A murder carried out for political rather than personal reasons	Imperialism		
interpretations	Historians views of the past. They will all be based on facts but will differ due to the attitudes of the society in which they live, or the evidence that they have chosen to focus on.	Nationalism	Nationalism was both a uniting force and a divisive one. It resulted in Germany and Italy uniting into strong nations, and also caused the disintegration of the Ottoman Empire and Austria-Hungary.	
	The line along which the two opposing armies met. E.g. The soldiers were sent to the western front.			
Homework ques	stions	Homework Quest	;tions	
 Copy out the definitions. Then use each keyword in a sentence that makes sense for our topic. 			tarism cause WW1? Inces cause WW1?	

- 2. Why did alliances cause WW1?3. Why did imperialism cause WW1?4. Why did nationalism cause WW1?

	8 th July
Topic - WW1	

15th July

Topic - WW1

On the Western Front, the war was fought by soldiers in trenches.

Trenches were long, narrow ditches dug into the ground where soldiers lived. They were very muddy, uncomfortable and the toilets overflowed. These conditions caused some soldiers to develop a problem called trench foot.

There were many lines of German trenches on one side and many lines of Allied trenches on the other.

In the middle was no man's land, which soldiers crossed to attack the other side.

A typical day in the trenches

Time	Activity
5am	'Stand-to' (short for 'Stand-to-Arms', meaning to be prepared for enemy attack) half an hour before daylight
5.30am	Rum ration
6am	Stand-down half an hour after daylight
7am	Breakfast (usually bacon and tea)
8am onwards	Clean selves and weapons, tidy trench
Noon	Dinner
After dinner	Sleep and downtime
5pm	Tea
6pm	Stand-to half an hour before dusk
6.30pm	Stand-down half an hour after dusk
6.30pm onwards	Work all night with some time for rest (patrols, digging trenches, putting up barbed wire, getting stores)

Homework questions

- 1. Watch the video and make notes about what life in the trenches was like: What was life like in a World War One trench? BBC Bitesize
- 2. What was 'no man's land'?
- 3. What was trench warfare?
- 4. Describe what a typical day for a soldier was like.

The Battle of the Somme started on 1 July 1916 and continued for 141 days until 18 November 1916. The battle was the largest of the First World War on the Western Front, stretching along 16 miles north of the Somme River.

After four months of bloody fighting the British and French had only penetrated six miles into German held territory.

The first day of action was the worst in the history of the British Army, which suffered 57,470 casualties.

The British and French forces, including forces from the British Empire such as Canada, Australia, and New Zealand, suffered staggering losses over the four month battle. Combined casualties totalled 623,907 men, including 146,431 killed or missing. Germany suffered heavy losses as well, with 465,181 casualties including 164,055 killed or missing.

The First World War is often remembered as a futile waste of life. A pointless slugging match that saw uncaring commanders send thousands of young men to their untimely deaths - lions led by donkeys. In Britain in particular, it's the mud-soaked trenches of Passchendaele which capture public imagination. While Field Marshall Sir Douglas Haig is remembered as the butcher of the Somme. But were British soldiers really lions led by donkeys?

Modern historians are challenging this idea and looking anew at Haig and his commanders to produce are more nuanced view of their command and generalship in the First World War.

Homework Questions

- 1. Watch the video and make notes about the Battle of the Somme: https://youtu.be/aBa1bxBVv3A
- 2. Watch this video how accurate is the interpretation 'lions led by donkeys'? https://youtu.be/6vOfiBLZamY?si=J-IxMgQPP2HaIUW-



Life Skills Knowledge Organiser Cycle 3 Year 8



Lesson 1 and 2– Personal Hygiene	Lesson 3 and 4 – Mental Wellbeing
Places to access support	Places to access support
www.dentalhealth.org	https://www.youngminds.org.uk
www.nhs.uk/change4life/food-facts/sugar	https://www.kooth.com/
Content:	Content:
Personal hygiene is how you care for your body. This practice includes bathing, washing your hands, brushing your teeth, and more.	Mental Health - a person's condition with regard to their psychological and emotional wellbeing.
Every day, you come into contact with millions of outside germs and viruses.	Your self-esteem is how you think and feel about yourself.
They can linger on your body, and in some cases, they may make you sick.	Resilience is a skill that helps people to recover quickly from difficulties, change or misfortune; to adapt to and overcome risk and adversity; to persevere and 'bounce back'.
Personal hygiene practices can help you and the people around you prevent illnesses. They can also help you feel good about your appearance. For example, teenager should wash their bodies and use deodorant every day to avoid body odour.	Digital resilience involves having the ability to understand when you are at risk online, knowing what to do if anything goes wrong, learning from your experiences of being online and being able to recover from any difficulties or upsets.
Personal health: • dental hygiene	Body image is how we think and feel about ourselves physically, and how we believe others see us.
sun safetyself-examinationvaccinations	When we talk about body image, there are lots of ways we can think about our body and the way we look. You might find that there are times when you like your body, or parts of your body, and times when you struggle with how you look.
Tooth decay and tooth loss is the leading dental problem for children in the UK. Brush at least twice daily for about 2 minutes with fluoride toothpaste. Brush last thing at night before bed and at least on 1 other occasion.	
Questions	Questions
1. What is personal hygiene?	1. Define mental health
2. Give an example of how someone can look after their personal hygiene	2. What is self-esteem?
3. How many times should a teenager wash their bodies with soap and water?	3. If someone is resilient, what are they?
4. How many times a day should you brush your teeth?	4. What is body image?
5. How could you encourage someone to look after their dental health?	5. What might impact our body image?



Life Skills Knowledge Organiser Cycle 3 Year 8



Lesson 5 and 6- The Effects of Smoking and Vaping

Places to access support

https://www.nhs.uk/live-well/quit-smoking/nhs-stop-smoking-services-help-you-quit/

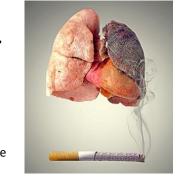
Content:

Smoking is the number one preventable cause of death, disability and ill health in the UK. It causes around 80,000 deaths a year, causes 1-in-4 of all cancer deaths and kills up to two-thirds of its long-term users

Nicotine is an addictive stimulant found in tobacco **Tobacco** is a plant grown for its leaves and is used in cigarettes,

A person who smokes throughout their life is at high risk of developing a range of potentially lethal diseases, including: cancer of the lung, mouth, nose, larynx, tongue, nasal sinus, oesophagus, throat, pancreas, bone marrow (myeloid leukaemia), kidney, cervix, ovary, ureter, liver, bladder, bowel and stomach.

You must be **over 18 to buy cigarettes** in the UK. If you're under 16 the police have the right to confiscate your cigarettes. It's illegal: for shops to sell you cigarettes if you are underage.



The government is creating a **Tobacco and Vapes Law 2025 to make the UK smoke-free**. It will stop kids under 15 from buying tobacco, extend the smoking ban to outdoor areas, and make public places vape-free. The Bill also bans ads for vapes, stops sales to under-18s, and creates rules for stores selling these products, with fines for breaking the law.

Questions

- 1. What is nicotine?
- 2. What is tobacco?
- 3. How many deaths a year are caused by smoking in the UK?
- 4. What is the new Tobacco and Vapes law coming into effect in June 2025?
- 5. Give an example of a cancer that smokers are at risk of developing.

Lesson 7 and 8 – The Effect of Alcohol

Places to access support

https://www.nhs.uk/live-well/alcohol-advice/alcohol-support/

Content:

It is **against the law to buy alcohol under 18 years old**. Under 18s can be stopped, fined or arrested by police if caught drinking alcohol in public.

Short-term effects of alcohol could include: dehydration, lack of inhibitions and feeling sociable – leading to 'out of character' behaviours, feeling sick, feeling drowsy, vomiting, headache, diarrhoea, dizziness and lack of coordination, loss of personal possessions, making poor decisions such as overspending, being at greater risk in certain situations, accidents and injuries due to falling over, memory loss, a 'hangover' the following day and alcohol poisoning.

Long-term effects of alcohol use (which can take many years to develop) include: health issues such as high blood pressure, stroke, cirrhosis/liver disease, effects on mood such as anxiety and depression, fertility issues, cancers including liver, bowel, breast and mouth; alcohol dependency; consequences of unwise actions while drunk including relationship changes and feelings of regret, and serious injuries.

As well as having a significant impact on your health, alcohol misuse can also have long-term social implications. For example, it can lead to:

- family break-up and divorce
- domestic abuse
- unemployment
- homelessness
- financial problems

Questions

- 1. How old must you be to buy alcohol in the UK?
- 2. Give a short-term effect of drinking alcohol
- 3. Give a long-term effect of drinking alcohol
- 4. Give an example of a social effect of drinking alcohol
- **5.** Where might someone seek support for alcohol misuse?





Life Skills Knowledge Organiser Cycle 3 Year 8



Lesson 9 and 10– Fi	rst Aid
Places to access support https://www.sja.org.uk/get-advice/first-aid-advice/	
Content: If you find yourself in an emergency situation, try to emergency help arrives.	stay calm and do what you can until
Assess the situation Is it safe to approach the casualty? Don't put yourself in danger Stay calm Try to think clearly Comfort and reassure the casualty Give emergency help Prioritise the most life-threatening conditions Try to treat any casualties where you find them Ask bystanders to help you if they can Call 999 for emergency help	Use DR ABC to identify life threatening conditions Remember the unresponsive casualties are at greatest risk. Danger Response Airway Breathing
Calling for help in an emergency: Location. Tell them where the emergency is and wher Incident. Tell them what has happened. Other services. Do you need more than one? Number of people that are involved. Extent of the injuries. What types of injuries do people Location. Repeat again where they need to arrive.	
Questions 1. What should you do first when you find your. 2. Why is it important to stay calm during an en. 3. What information should you give when calli 4. How can you help the casualty if you can't me. 5. What should you prioritise when giving emer.	nergency? ng 999 for emergency help? ove them?



Y8C3 Maths Key knowledge

Use this guide to make sure you know what to do, when to do it and how to do it:

Maths homework is to complete Sparx

What to do

- Do Sparx on the days in the homework timetable
- Compulsory Homework: You must do this part of your homework every week
- XP Boost/Target Homework: Do this to gain loads of XP and to improve your maths!

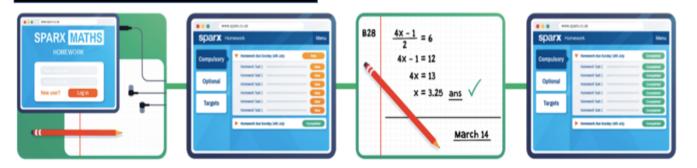
Top Tips

- Do your homework as soon as you can
- Watch the help video
- If you are stuck, speak to your maths teacher before hand-in or pop in to Sparx Support club during breaks

-Always:



- Write down the date
- Write down your bookwork code
- Read the question carefully
- Show all your workings
- Highlight/underline your final answer
- Tick if correct/cross if wrong



We want you to do well with your maths and doing Sparx will help. If you've tried something, watched the video and are still not sure how to do something make sure you ask for help! You're expected to complete it every week and catch up if you haven't.

Your Maths Homework is to complete your Sparx



Your Maths Homework is to complete your Sparx

Y8C3 Maths Key know	vledge
Item	Description
Prime number	A number with exactly two distinct factors.
Product	Multiplication
Volume of a prism	$volume\ of\ a\ prism = area\ of\ the\ cross\ section imes length$
Volume of a cylinder	$volume\ of a\ cylinder = \pi \times radius^2 \times length$
Certain	Represented by a probability of 100% or 1
Impossible	Represented by a probability of 0% or 0
Interior angle	An angle inside a polygon
Exterior angle	An angle formed outside a polygon by extending a
	side.
The interior angle	The interior angle sum for a polygon depends on the
sum of a polygon	number of sides. They form the following pattern:
	180° 360° 540° 720° 900°
	+180° +180° +180° +180°
The exterior angle	Exterior angles always add up to 360°
sum of a polygon	
Angles in a pie chart	Always add up to 360°
Bearing	A bearing is an angle measured clockwise from north
	Bearing 060° Bearing 240°

Year 8 — Musical Theatre — Knowledge Organiser

	Key Words
Opera	A play, set to music, sung and acted, with scenery, costumes and lighting.
Chorus	as well as being a part of a song, a "chorus num- ber" in an opera or musical is a song performed by the whole cast or a number of voices together.
Musical	a drama characterised by storyline, plot and characters interspersed with dialogue and different musical numbers including solos, duets and chorus numbers and including scenery, costumers and choreography
Overture	A piece of instrumental music composed as an introduction to a musical.
Solo	A song for a single voice, with or without instrumental accompaniment
Duet	A song for a two voices, with or without instrumental accompaniment

	Music Theory
Chord	a group of two or more pitched notes played at the same time.
Melody	a tune or succession of notes, varying in pitch, that have an organised and recognisable shape
Vamp	a way of performing notes of a chord in a im- provisatory, yet organised style
Bass Line	The lowest sounding layer in a piece of music played by a bass instrument e.g. bass guitar, double bass, piano (left hand part)

Musical Theatre Facts

Musical Theatre combines song, spoken dialogue, acting and dance. Musical Theatre originated in Ancient Greece.

The 'musical' was invented by a French composer called 'Herve' when he was experimenting with form of comic musical theatre he called 'Operette'.

The Phantom of the Opera is the most successful musical of all time.

Song Types in Musical Theatre

Solo: A solo is a song sung by only one character. Solo songs are often deeply meaningful and give an insight into what the character is thinking and feeling in the moment.

Duet: Duets are songs sung by 2 characters. These often include vocal harmonies and question and answer phrasing to suggest a certain relationship or conversation between the two characters.

Chorus: Chorus songs are often (but not always) the big, catchy songs that show what the musical is about. These are usually sung by the chorus in the show or, quite often, everyone in the cast. Chorus numbers often open or close the different acts and show major changes that affect a large number of characters.

Ensemble: Ensemble songs are usually sung by a group of the main characters. The group size can range anywhere from 3 to about 10 singers. Often different characters will have solo lines within the song, but the whole ensemble will come together to sing the chorus.

Section 4: Chords and basslines

Chord Vamp for 'All That Jazz'



This is based on the chord of C major which uses the notes C, E and G. Here, the notes are arranged in a different order with "G" being performed lower, below "middle C".

Bassline for 'All That Jazz'



What Makes a Good Song?

Exploring Popular Songs and Musical Arrangements



A. Popular Song Structure

SONG STRUCTURE – How a song is made up of or divided into different sections (see below) and the order in which these sections occur. To work out the structure of a song, it's helpful to analyse the **LYRICS** <u>and</u> listen to a recording for the song (for instrumental sections). **INTRO** – often shortened to 'intro', the first section of a

INTRO – often shortened to 'intro', the first section of a song which sets the mood of the song and is sometimes, but not always, an instrumental section using the song's chord pattern.

VERSES – songs normally have several verses. Verses introduce the song's theme and have the same melody but different lyrics for each verse which helps develop the song's narrative and story. Songs made up entirely of verses are called **STROPHIC**.

LINK – a optional short section often used to join different parts of a song together, often instrumental, and sometimes joins verses together or appears at other points within a song.

PRE-CHORUS – an optional section of music that occurs before the **CHORUS** which helps the music move forward and "prepare" for what is to come.

CHORUS – occurs several times within a song and contains the most memorable **HOOK/RIFF**. The chorus relays the message of the song and is repeated with the same melody and lyrics each time it is heard. In popular songs, the chorus is often repeated several times towards the end of the song.

MIDDLE 8/BRIDGE – a section (often 8 bars in length) that provides contrasting musical material often featuring an instrumental or vocal solo using new musical material allowing the performer to display their technical skill on their instrument or voice.

CODA/OUTRO – The final section of a popular song which brings it to an end (Coda is Italian for "tail"!)

B. Key Words

LYRICS – The words of a song, usually consisting of VERSES and a CHORUS.

HOOK – A 'musical hook' is usually the 'catchy bit' of the song that you will remember. It is often short and used and repeated in different places throughout the piece. Hooks can be either **MELODIC, RHYTHMIC** or **VERBAL/LYRICAL**.

RIFF – A repeated musical pattern often used in the introduction and instrumental breaks in a song or piece of music. Riffs can be rhythmic, melodic or lyrical, short and repeated.

MELODY – The main tune of the song often sung by the **LEAD SINGER**.

COUNTER-MELODY – An 'extra' melody often performed 'on top of' the main melody that 'fits' with it a DESCANT OF INSTRUMENTAL SOLO.

TEXTURE – The layers that make up a song e.g., Melody, Counter-Melody, Hooks/Riffs, Chords, Accompaniment, Bass Line.

C. Lead Sheet Notation and Arrangements

A LEAD SHEET is a form of musical NOTATION that contains only the essential elements of a popular song such as the MELODY, LYRICS, RIFFS, CHORDS (often as guitar chord symbols) and BASS LINE; it is not as developed as a FULL SCORE ARRANGEMENT and is open to interpretation by



performers who need to use and adapt the given elements to create their own musical **ARRANGEMENT**: their "version" of an existing song.

COVER (VERSION) – A new performance, remake or recording by someone other than the original artist or composer of the song.

D. Conjunct and Disjunct Melodic Motion

CONJUNCT MELODIC MOTION – Melodies which move mainly by step or use notes which are next to or close to one another. **DISJUNCT MELODIC MOTION** – Melodies which move mainly by leap or use notes which are not next to or close to one another.

MELODIC RANGE – The distance between the lowest and highest pitched notes in a melody.



E. Song Timbre and Sonority (Instruments that are used to Accompany Songs)



Pop Bands often feature a **DRUM KIT** and **PERCUSSION** to provide the rhythm along with **ELECTRIC GUITARS** (**LEAD GUITAR**, **RHYTHM GUITAR** and **BASS GUITAR**) and **KEYBOARDS**. Sometimes **ACOUSTIC INSTRUMENTS** are used such as



the **PIANO** or **ACOUSTIC GUITAR**. **ORCHESTRAL INSTRUMENTS** are often found in pop songs such as the **STRINGS**, **SAXOPHONE**, **TROMBONE** and

TRUMPET. Singers are essential to a pop song - **LEAD SINGER** – Often the "frontline" member of the band (most famous) who sings most of the melody line to the song. **BACKING SINGERS** support the lead singer providing **HARMONY** or a **COUNTER-MELODY** (a melody that is often higher in pitch and different, but still

'fits with' the main melody) and do not sing all the time but just at certain points within a pop song e.g. in the chorus.



Year 8 Cycle 3 Sport and PE Knowledge Organiser

Week 1 and 2	Week 3 and 4	Week 5 and 6	Week 7 and 8	Week 9 and 10	Week 11 & 12
Goal setting – performance and outcome	SMART principles	Information processing	<u>Guidance</u> – visual, verbal, mechanical & manual	<u>Feedback</u> – Intrinsic & extrinsic	Application & review
To improve, athletes and their coaches set goals to work towards. There are two types, performance goals and outcome goals. Setting goals help athletes physically & mentally. Performance goals — These are personal benchmarks that athletes use to improve small aspects of their own performance. e.g. A cyclist may try to change their position slightly to be more aerodynamic or a golfer may try to relax her/his grip ever so slightly in the swing. Outcome goals — These form actual data, where the end result is all that matters. e.g. The actual time the athlete finished in or the distance the athlete threw. e.g. The actual % possession	Once goals are set, the following principles should be followed: S – Specific – The goals should be targeted towards the actual sport, the actual skill needed or the type of fitness required. M – Measurable – The goal will need to be recorded and compared against data to see if it is working? A – Accepted – Do the athlete and coach agree to the goal? R – Realistic – is it possible? Can the goal be completed in the time given? T – Time-bound – There must be a time given to achieve this goal.	Information processing – the process an athlete/performer goes through when they make and act upon a decision. There are 4 parts: 1. Input – this is what the performer sees, feels, hears from their environment. The performer 'chooses' which input to focus on. 2. Decision-making – the performer selects a response, a movement or a skill from memory. 3. Output – the skill/movement specific muscles are selected and activated. 4. Feedback – the performer feels, sees or receives the feedback from the output; was it successful or not?	This is the method used to give information to the athlete/performer. Visual – we can give information through videos, pictures, court/pitch markings or by live demonstrations. Verbal – A coach or captain describes how to perform a skill or set of skills. Mechanical – these are aids/tools used to help the performer e.g. harnesses in climbing or floats in swimming. Manual – This is where the coach physically supports the athlete/performer to show them the correct movement pattern.	Feedback is the information a performer/athlete receives during or after a performance. Intrinsic – This is feedback the athlete receives from within i.e. he/she just 'knows' based on previous performances. This can be positive and/or negative. Extrinsic – This is feedback received from coaches, fellow athletes, video or spectators.	Athletes are motivated by different things, from within themselves and/or by external factors. Goal setting is the outcomes of SMART principles are dependent upon the athlete's motivation to succeed. Coaches, team-mates and other support systems can help. As a performer becomes more experienced, he/she is able to draw upon more feedback to help the information processing (4 part) sequence.
the team had in offence.	DREAM GOALS TAKE ACTION				

Week 1: Tues 1 st April	Week 2: Tues 29 th April	Week 3: Tues 6 th May	Week 4: Tues 13 th May	
Lesson 1 – What Is Sikhism?	Lesson 2 – What Do Sikhs Believe?	Lesson 3 – Who Were The Gurus?	Lesson 4 – What Are A Sikh's 3 Duties?	
Key Terms:	Key Terms:	Key Terms:	Key Terms:	
Dharmic: Religions which focus on	Guru Granth Sahib: The main holy	Guru: Someone who teaches and	Nam Simran: to remember God	
the concept of dharma, which is a sanskrit term for a "law or duty."	scripture of Sikhism.	leads a person to knowledge and understanding of God.	and meditate on His name.	
	Mool Mantar: The opening section		Kirat karna: to earn one's living by	
Sikhism: A religion that developed in the 15th century, based on belief	of the Guru Granth Sahib.	Langar: The concept of free food for all.	honest means and hard work.	
in a single god and on the teachings of Guru Nanak.		Sewa: 'Selfless service'. It involves acting selflessly and helping others	Vand chhakna: to share with others who are less fortunate.	
Guru: Someone who teaches and leads a person to knowledge and		in a variety of ways, without any reward or personal gain.	Samsara: The cycle of birth, death and rebirth.	
understanding of God.			Mukti: Liberation from samsara.	
Content:	Content:	Content:	Content:	
Sikhism began in the Punjab region	The Guru Granth Sahib is the Sikh	There were 10 Sikh Gurus	Guru Nanak gave Sikhs 3 golden	
of India and was founded by the	holy book.	altogether.	rules to follow.	
first Sikh Guru, Guru Nanak.	The first verse of the Guru Granth	The 3 rd Guru, Guru Amar Das	In order to reach mukti, Sikhs must	
Sikhs believe in one God who guides	Sahib is called the Mool Mantar	introduced the idea of the Langar	live their life with God in their mind	
and protects them. They believe	It is important as it is the start of the	(free food for all). He also stressed	at all times. They must also act	
everyone is equal before God.	Sikh holy book and also explains the Sikh ideas of God.	the importance of sewa .	with love and compassion .	
Questions:	Questions:	Questions:	Questions:	
 What is a Dharmic religion? What are the main beliefs of Sikhism? Who was Guru Nanak? Why is Guru Nanak so important to Sikhs? 	 What is the Guru Granth Sahib? What is the Mool Mantar? How does the Guru Granth Sahib describe God? 	 What is a Guru? Why are the ten Gurus important to Sikhs? What key important ideas or principles did the Gurus introduce? 	 What are the three golden rules that a Sikh has to follow? How do Sikhs put the golden rules into practice? 	

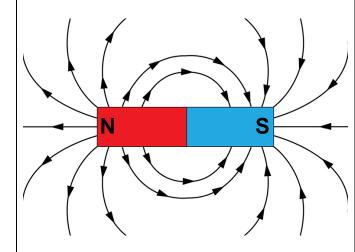
Week 5: Tues 3rd June	Week 6: Tues 17 th June	Week 7: Tues 1 st July	
Lesson 5 – The Sikh Path Of Life	Lesson 6 – What Is Amritdhari?	Lesson 7 – Sikh Identity In Britain	
Key Terms: Gurmukh: God centred (Keeping God at the forefront of your mind) Mukti: Freedom from the cycle of birth, death and rebirth Samsara: The cycle of birth, death and rebirth Karma: The consequences of a person's actions or words	Key Terms: Amrit: A sanctified solution of sugar and water Amrit Chhakna: An initiation ceremony into Sikhism Khalsa Panth: The Sikh community Shabads: Passages of the Guru Granth Sahib	Key Terms: Identity: Characteristics that determine who or what a person is. Turban: A head covering for a man, worn by Sikhs.	
In order to reach mukti, Sikhs must live their life with Waheguru (God) in their mind at all times and must rid themselves of all bad karma and focus on gaining good karma. They must act with love and compassion towards others.	Every Sikh is urged to become an active member of the Khalsa Panth. Amrit is sugar crystals dissolved in water by stirring them with the sword while shabads are recited. Sikhs who have taken amrit must wear the Five Ks.	 Most Sikhs settled in Britain in the 1950s and 1960s from the Punjab. There are around 500,000 Sikhs living in Britain and over 300 gurdwaras around the country. Over 100,000 Sikhs fought in the British Indian Army during World War II. 	
Questions: 1. What is Samsara? 2. How do Sikhs achieve mukti? 3. What does Gurmukh mean? 4. What is Karma?	 Questions: 1. Why are Sikhs urged to become active members of the Khalsa Panth? 2. What is Amrit Chhakna and what does it involve? 3. What are the 5 K's? 	Questions: 1. When and why did the Sikh community in the UK grow? 2. Why do Sikh men wear turbans? 3. What contributions have Sikhs made to the UK?	Kirpan Kachera Kara Kara Kanga

Lesson 1 Magnetic Fields

Magnetism is a non-contact force that can act at a distance

A magnetic field is the region around a magnet where a force may be felt

Every magnet has a North and South pole

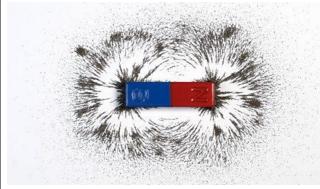


A magnetic field is shown by drawing lines showing the direction the magnetic force would act in

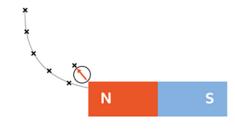
Magnetic field lines are drawn going from North to South

Lesson 2 Experimenting with Magnets

Iron filings can be used to show the shape of a magnetic field



We can also use small compasses called plotting compasses to find the direction of the magnetic field at different points around a magnet



Lesson 3 Interacting Magnets

Magnetic materials like Iron, Nickel and Cobalt are always attracted towards a magnet

A magnet may be either attracted or repelled by another magnet



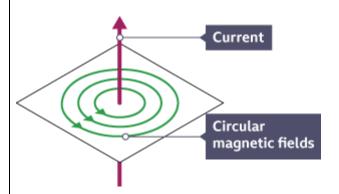
Poles of the same type (North-North or South-South) will repel

Poles of the opposite type (North-South or South-North) will attract



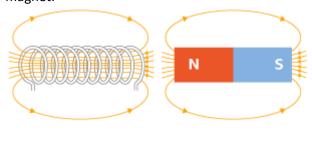
Lesson 4 Electromagnets

An electric current flowing in a wire creates a magnetic field:



The magnetic field gets weaker as you get further from the wire.

If we coil the wire up into a solenoid, the shape of the magnetic field around it is very similar to a bar magnet:



Lesson 5 & 6 Investigating the Strength of an Electromagnet

Hypothesis:

An idea that can be tested by experiment

Independent Variable:

The one thing you **change** in an experiment.

Dependent Variable:

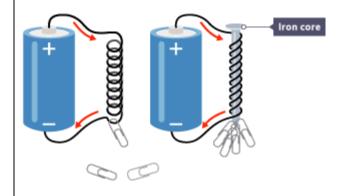
The thing you **measure** in an experiment.

Control Variable:

All of the things you **keep the same** in an experiment.

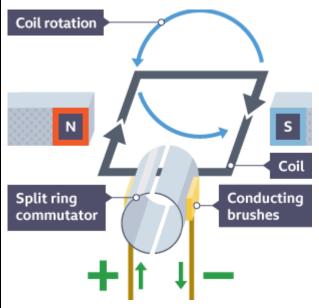
3 main factors affect the strength of an electromagnet:

- The number of turns of wire
- The size of the current
- Adding an iron core



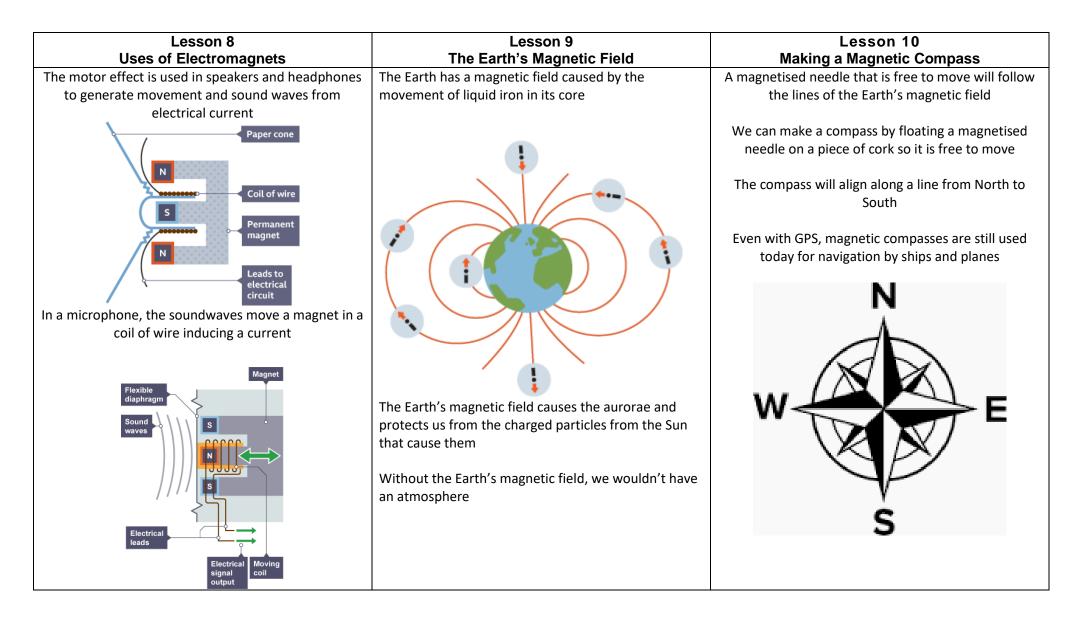
Lesson 7 The Motor Effect

If a current carrying wire is in a magnetic field, it experiences a force. This is called the **motor effect**.



We can use this effect to make an electric motor:

- The current flows in the coil giving it a magnetic field
- The magnetic field of the coil interacts with the magnetic field of the permanent magnet
- This causes the coil to feel a force and rotate
- The rotation is the output of the electric motor



Lesson 1:

- 1. What type of force is magnetism?
- 2. What is a magnetic field?
- 3. Name the 2 poles of a magnet
- 4. Draw the shape of the magnetic field around a bar magnet
- 5. Which direction do the arrows on magnetic field lines follow?

Lesson 2:

- Filings of which type of metal are used to show the field pattern of a magnet?
- 2. Describe how they can be used to do this
- 3. What is a plotting compass?
- 4. Describe how to use a plotting compass to show the shape of a magnetic field

Lesson 3:

- 1. Name 3 magnetic materials
- Describe how the following combinations of magnetic poles would interact (attract or repel)
 - a) North and North
 - b) North and South
 - c) South and South
- 3. Would a piece of iron be attracted or repelled by a magnet?

Lesson 4:

- Describe the shape of the magnetic field around a current carrying wire
- 2. What is the name given to a coil of wire?
- Sketch the shape of the magnetic field around a coil of wire
- 4. What is this shape similar to?

Lesson 5 &6:

- 1. What is an independent variable?
- 2. What is a dependent variable?
- 3. What is a control variable?
- 4. Name 3 factors that affect the strength of an electromagnet

Lesson 7:

- 1. What is the motor effect?
- 2. Fill in the missing words:

The c_____ flows in the coil giving it a magnetic field The magnetic f____ of the coil interacts with the magnetic field of the permanent m____ This causes the coil to feel a f____ and rotate The rotation is the output of the electric m

Lesson 8:

- 1. Which effect is used in loudspeakers to generate sound?
- 2. Which part of a loudspeaker causes the air to vibrate?
- True or false a microphone works in the same way as a loudspeaker
- 4. What is the output of a microphone?

Lesson 9:

- 1. What causes the Earth's magnetic field?
- Name an effect produced by the Earth's magnetic field
- 3. What does the Earth's magnetic field protect us from?
- 4. What would be lost without the Earth's magnetic field?

Lesson 10:

- 1. Describe how to make a magnetic compass
- 2. Will a magnetic compass align north to south, or east to west?
- 3. Which magnetic field does a compass align with?
- 4. Suggest a use for a magnetic compass
- 5. Suggest a job where you might use a compass

The larger the surface area the faster the rate of reaction.

Lesson 1 Lesson 2 Lesson 3 Rates of Reaction - Surface Area Rates of Reaction - Temperature Rates of Reaction - Concentration **Surface Area:** The total area of an object. The temperature of an object can be measured using The higher the concentration, the more particles of the substance are present. a thermometer. For a given mass of a solid: large lumps have smaller surface area to volume ratios At higher temperatures, particles have more energy HIGH CONCENTRATION LOW CONCENTRATION than smaller lumps or powders. and move more. If a large lump is divided or ground into a powder: its total volume stays the same At lower temperatures, particles have less energy and the area of exposed surface increases move less. the surface area to volume ratio increases A higher concentration solution can be created by The area of one face of the cube will be: dissolving more solute in a certain volume of solvent. $2 \times 2 = 4 \text{ cm}^2$. The cube has six faces, so the total surface area is: Or Low temperature High temperature $4 \text{ cm}^2 \times 6 = 24 \text{ cm}^2$. A higher concentration solution can be created by The higher the temperature the faster the rate of dissolving a certain amount of solute in a smaller reaction. volume of solvent. The higher the concentration the faster the rate of reaction. Each of the small cubes has a face area of: $1 \text{ cm x } 1 \text{ cm} = 1 \text{ cm}^2$. The six faces give a total surface area for each smaller cube of: 6cm². There are eight cubes so the total surface area is: $6 \text{ cm}^2 \times 8 = 48 \text{cm}^2$.

Lesson 6 & Lesson 4 Lesson 5 **Extracting Iron with Carbon Ceramics & Polymers** Catalyst A catalyst: Iron is found as a compound within rocks. Iron is Ceramics: generally found bonded to oxygen as a called iron Materials formed from a soft substance which are increases the rate of a reaction heated to become hard and durable. oxide. does not alter the products of the reaction is not chemically changed or used up at the end of Iron is extracted using carbon in a displacement Ceramics are baked in a very hot oven called a kiln. the reaction reaction. This is because carbon is cheap and readily The temperature of kilns can reach temperatures of available. over 1300 °C. Catalysts are useful because they can allow reactions to happen at lower temperatures. The starting materials are soft and malleable, iron oxide + carbon \rightarrow iron + carbon dioxide Tailpipe meaning they can be shaped. emissions This is a type of displacement reaction. Engine The more reactive element (carbon) is displacing the These new hard ceramic materials have a fixed shape H₂O emissions less reactive element (in this iron) from its compound. and cannot be bent. HC ► CO₂ Potassium Sodium Lithium Calcium The exhaust systems of cars are fitted with catalytic Magnesium converters. A polymer is a very long molecule. Polymers are made Aluminium These help reduce the release of toxic gases from the up of many repeating units. Increasing Carbon exhaust pipe. They contain platinum and rhodium, reactivity Zinc which act as catalysts. Synthetic polymers are manufactured using chemical Iron reactions that join lots of small molecules together to Hydrogen make long molecules. Copper Enzymes are biological catalysts. Silver They occur naturally in the body and help with digestion. A chemical reaction where oxygen is removed from a compound is called reduction. This method is called reduction with carbon.

Lesson 7 Polymers investigation

Independent Variable:

The one thing you **change** in an experiment.

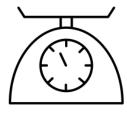
Dependent Variable:

The thing you **measure** in an experiment.

Control Variable:

All of the things you keep the same in an experiment.

Mass is measured with a top pan balance and its units are grams (g) or kilograms (kg)



Length is measured with a ruler and its units are centimetres (cm) or meters (m)



Lesson 8 Recycling

Lots of the resources that humans use are finite.

This means their supply is limited and they will eventually run out.

Recycling is one way that we can reduce the amount of finite resources being extracted from the Earth.



Recycling an aluminium can into usable aluminium is **much simpler** and uses **less energy** (in the form of electricity) than extracting more aluminium.

Recycling is even more important for materials that are scarce.

Composites: Making Concrete Composite

A material that is made from two or more different types of material

Lesson 9

The materials for a composite material are chosen because they have different properties that combine to make a more useful material.

The properties of each material in the composite are described as complementing each other.

Reinforced concrete

Reinforced concrete is a composite material. It is made by pouring concrete around a mesh of steel cables.

- strong when stretched (because of the steel)
- strong when squashed (because of the concrete)

Fibreglass

Fibreglass is made from a mesh of glass fibres set in a tough polymer.

Strong (glass fibres) Lightweight (polymer)



Many kayaks are made from fibreglass.

1	esson	1	

- 1. What is surface area?
- 2. What happens to the surface area of a substance when it is ground into a powder?
- 3. How do you calculate the area of a square?
- 4. How do you calculate the surface area of a cube?
- 5. How does surface area affect the rate of reaction?

Lesson 2:

- What instrument is used to measure the temperature of an object?
- 2. How can you increase the movement of particles?
- 3. How can you decrease the energy of particles?
- 4. Draw a diagram showing gas particles at low and high temperatures.
- 5. How does temperature affect the rate of reaction?

Lesson 3:

- 1. What is the relationship between concentration and the number of particles?
- Draw a diagram showing particles in a high and low concentration.
- 3. State two ways you can increase the concentration of a solution.
- 4. State two ways you can decrease the concentration of a solution.
- 5. How does concentration affect the rate of reaction?

Lesson 4:

- 1. How does a catalyst affect the rate of reaction?
- 2. True or False: Catalysts are used up in a chemical reaction?
- 3. Why are catalysts useful?
- 4. How are catalysts used in cars?
- 5. What are enzymes?

Lesson 5:

- 1. Where is iron found?
- 2. What is used to extract iron?
- 3. Iron oxide + carbon \rightarrow
- 4. What happens in a displacement reaction?
- 5. What is reduction?

Lesson 6:

- 1. What is a ceramic?
- 2. What is the name of the oven ceramics are baked in?
- 3. Why can the starting materials be shaped?
- 4. Why can the hard ceramic not be bent?
- 5. What is a polymer?

Lesson 7:

- 1. What is an independent variable?
- 2. What is a dependent variable?
- 3. What is a control variable?
- 4. What do you use to measure mass?
- 5. What do you use to measure length?

Lesson 8:

- 1. What does finite mean?
- 2. How does recycling benefit our dependence on finite resources?
- 3. State 2 ways recycling is better than extracting finite resources?
- 4. What does scarce mean?
- 5. Name all the materials you recycle at home.

Lesson 9:

- 1. What is a composite?
- 2. Why are composites made?
- 3. What is reinforced concrete made from?
- 4. What is fibreglass made from?
- 5. What property does steal have?

In the practical you will extract DNA from bath of the plastic bag, seal it and crush for about 2 minutes. In the practical you will extract DNA from bath of the plastic bag, seal it and crush for about 2 minutes.	nanas.
2. Add 10 cm³ of the buffer solution to with the banana and mix together forminute. 3. Filter the banana mixture. 4. Pour 10 cm³ of ice-cold 90% ethanol side of the beaker into the banana mot mix or stir. 5. Within a few seconds you should see cloudy substance form in the clear lathe banana mixture. 6. Use a wooden splint to pull strands of the top layer. This is the banana D	down the nixture, do e a white ayer above of this out
	ses which hold the two strands not mix or stir. 5. Within a few seconds you should see cloudy substance form in the clear late the banana mixture. 6. Use a wooden splint to pull strands of the banana mixture.

Lessons 5, 6 and 7 Lesson 4 The Human Genome Variation Variation: The differences which occur between Chromosomes: **Environmental variation:** The genetic information of all organisms is different species and within species. Characteristics of animal and plant species can be contained in the nucleus, in chromosomes, affected by factors such as climate, diet, The differences are inherited through genes. accidents, culture and lifestyle. made of DNA. Chromosomes are arranged in pairs; in humans If you eat too much food then you will we have 46 chromosomes arranged in 23 pairs. Half an organism's DNA comes from the father, become heavier. Variation caused by the surroundings is called environmental The Genome: The complete set of genes in an half from the mother. organism. variation. Examples include Each chromosome may have a different version of The Human Genome Project your language and religion. Scientists have sequenced the order of bases in all of a gene. E.g. a gene for blue eyes, a gene for brown the 30,000 genes of human DNA. eyes. Continuous variation: The project started in 1990 and was completed in 2001. Human height is an Alleles: Different versions of a gene, that code for example. It ranges from the smallest Advantages of the project: different versions of a characteristic. People's genes can be analysed for any person on Earth to the mutations which may cause disease. Identical twins are the only organisms which have tallest. Continuous variation identical DNA so no variation. shows characteristics that The gene that causes breast cancer was found. Improves understanding of how medicines work change gradually over time. Inherited variation: Data is plotted on a line in the body. Variation in characteristics that is a result of graph. Helps us to understand evolution of organisms. genetic information from parents. Examples include: **Discontinuous variation:** Disadvantages of the project: •Eye colour A characteristic of any species May lead to 'designer babies. with only a limited number of Hair colour People may be under pressure not to have •Lobed or lobe less ears possible values. Eye colour children or terminate pregnancies. and blood group are Ability to roll your tongue. Could affect insurance (life, car, medical etc.) examples. Personal information is stored on databases. Data is plotted on a bar graph.

Lesson 8	Lesson 9	Lessons 10 & 11
Natural Selection	Extinction	Biodiversity
Scientists believe that the organisms which we see on Earth today have gradually developed over millions of years, this is known as evolution. Charles Darwin came up with the concept of natural selection, he said that only the best adapted animals will survive to pass on their genes, weaker animals will die out. Organisms show variation in characteristics caused by their genes out and do not pass on their genes out and do not pass on their genes of their genes of the successful organisms are passed onto the next generation, passing on their successful characteristics. One example of natural selection can be seen in giraffes. Only the giraffes with the longest necks would be able to eat from trees. The ones with shorter necks would not be able to eat and die out. This would mean that only the gene for long necks would be passed on, leading to all giraffes having long necks.	A species will become extinct when all of a species die out. The fossil record shows us that animals have existed in the past which have now become extinct Extinction can be caused by: Changes to the environment Destruction of habitat New diseases Introduction of new predators Increased competition	Biodiversity is the range of different living things in an ecosystem or on Earth. The greater the biodiversity the more stable the ecosystem. The more diverse a population is, the more likely they are to survive environmental changes When a species becomes extinct, the variety of species within an ecosystem is reduced, this is also known as a reduction in biodiversity Scientists try to prevent extinction by: 1. Conservation 2. Gene banks 3. Captive breeding

Answer these questions in full sentences in your homework book:

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Draw and label a diagram to show the relationship between a cell, nucleus, chromosome, DNA and genes	 What does DNA stand for? Where is DNA found? What shape is a DNA molecule. How many bases are in DNA? Which base pairs with C? 	Write a method step by step method to describe how you would extract DNA from strawberries	 Define Genome What is the human genme project? When did the Human genome project finish? List 2 benefits of carrying out the Human genome project. List 2 arguments against carrying out the Human genome project. 	 Define variation What % of your DNA comes from your mum? What is an allele? Which organisms show no variation? List 3 characteristics you inherit form your parents
Lessons 6 & 71. Which type of variation is caused by your surroundings?	 Lesson 8 Define evolution Who suggested the theory of Natural 	 Lesson 9 Define extinction How do we know that some animals did exist? 	 Define biodiversity How do we make an ecosystem more 	Research 1 animal that has become extinct.
 Give an example of discontinuous variation. What type of graph should you use to display discontinuous variation? Give an example of continuous variation. What type of graph should you use to display continuous variation? 	Selection? 3. What is Natural selection? 4. Why did short necked giraffes die out? 5. What happened to the number of long necked giraffes?	3. Give 3 reasons why extinction occurs.4. Name 2 animals that have become extinct.5. Why did they become extinct?	stable? 3. What effect does extinction of a species have on biodiversity? 4. List 3 ways scientists try to prevent extinction	 What was it called? Where did it live? What did it eat? Why did it become extinct?

Year 8 Spanish Cycle 3



Instructions

- Look at the list of 12 words/phrases and practice saying them
- Cover the English side and try to say them to yourself, then write them down.
- Check your answers
- Repeat until you can remember all 12
- Keep doing this regularly until you are confident!

Challenge: Can you cover up the Spanish side and remember all 12 including the spellings?

You have **two** weeks to revise each vocabulary list at home.

You will then be tested in class on how well you know all 12 words/phrases.

Buena Suerte!

Test 1 ¿Cuánto cuesta una pizza, por favor?-LC3

Español	Inglés
Quisiera un bocadillo de queso por favor	I would like a cheese sandwich please
2. Quisiera una hamburguesa por favor	I would like a burger please
3. Quisiera unos caramelos y unas patatas fritas	I would like some sweets and chips
4. Tomo una pizza	I am having a pizza
5. Tomo un refresco y una paella	I am having a soft drink and a paella
6. Tomo una sopa de tomate y un plátano	I am having a tomato soup and a banana
7. ¿Cuánto cuesta el helado de chocolate?	How much does chocolate ice cream cost?
8. ¿Cuánto cuesta el zumo de manzana?	How much does apple juice cost?
9. ¿Cuánto cuesta la ensalada por favor?	How much does the salad cost?
10. Cuesta quince euros	It's 15 euros
11. Cuesta ocho euros	It's eight euros
12. Cuesta veintitrés euros	It's twenty-three euros

Test 2 - ¿por qué comes este? - LC3

Español	Inglés
1.Nomalmente como esta fruta	Normally I eat this fruit
2. Bebo esa agua	I drink that water
3. Evito la comida rápida	I avoid fast food
4. Porque no es san@	Because it is not healthy
5. Porque son sabros@s	Because they are tasty
6. Como carne roja porque es delicioso	I eat red meat because it is delicious
7. Evito las patatas fritas porque son malsanas	I avoid chips because they are unhealthy
8. Ayer comí esos caramelos	Yesterday I ate those sweets
9. Ayer bebí estos refrescos	Yesterday I drank those fizzy drinks
10. En el futuro voy a evitar el sal	In the future I'm going to avoid salt
11. En el futuro voy a comer vitaminas	In the future I'm going to eat vitamins
12. Bebo refrescos y como caramelos porque son malsanos	I drink fizzy drinks and eat sweets because they are unhealthy

Test 3 - ¿Con qué frecuencia lo comes? - LC3

Español	Inglés
1. Lo como todos los días	I eat it every day
2. Los bebo a veces	I drink them sometimes
3. La comí ayer	I ate I yesterday
4. Las voy a comer en el futuro	I'm going to eat them in the future
5. Porque me ayuda	Because it helps me
6. Porque nos daña	Because it damages us
7. Lo como de vez en cuando	I eat it from time to time because it is
porque es delicioso	delicious
8. La evito a menudo porque es	I avoid it often because it is unhealthy
malsano	
9. Los bebí ayer porque me	I drank them yesterday because they
ayudan	help me
10. No lo voy a comer en el	I'm not going to eat it in the future
futuro porque me daña	because it damages me
11. La como dos veces a la	I eat it twice a week because I like it
semana porque me gusta	
12. La evito cada día porque	I avoid it every day because it is
es malsana	unhealthy

Test 4 - ¿Cómo es tu rutina diaria?- LC3

Español	Inglés
1. Todos los días desayuno	Everyday I have breakfast
2. Normalmente me lavo	Normally I wash myself
3. Ayer me vestí	Yesterday I got myself dressed
4. Mañana voy a acostarme	Tomorrow I'm going to put myself to bed
5. Antes de cenar	Before having dinner
6. Después de levantarse	After getting up
7. Ayer me lavé antes de	Yesterday I washed myself before having
desayunar	breakfast
8. Normalmente ceno a las siete	Normally I have dinner at 7
9. Ayer me desperté a las	Yesterday I woke up at 8
ocho	
10. Mañana voy a	Tomorrow I'm going to get up at 10
levantarme a las diez	
11. Siempre ceno y me	I always eat dinner and go to bed
acuesto	
12. A veces me lavo y	I sometimes wash myself and have dinner.
ceno. Después me	After, I go to bed at 10
acuesto a las diez	

Test 5 - ¿Qué deportes haces?- LC3

Español	Inglés
1. Cada día	Each day
2. Dos veces a la semana	Twice a week
3. Tres veces al mes juego	Three times a month I play football
al fútbol	
4. A veces juego al	Sometimes I play basketball
baloncesto	
5. A menudo hago deporte	Often I do sport
6. Normalmente hago	Normally I do swimming
natación	
7. Tres veces al mes juego	Three times a month I play gold with my
al golf con mis amigos	friends
8. Nunca hago boxeo en el	I never do boxing at the gym
gimnasio	
9. De vez en cuando hago	From time to time I surf on the beach with
surf en la playa con mi	my family
familia	
10. A veces hago	I sometimes do hiking with my school
senderismo con mi	
escuela	
11. Dos veces a la	Twice a week I play volleyball in the park
semana juego al voleibol	with my team
en el parque con mi	
equipo	
12. Nunca hago	I never do horse-riding
equitación	