Knowledge Organiser

Year 8

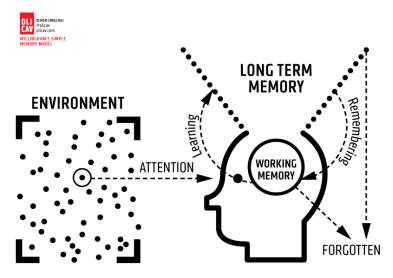
Cycle 1

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.

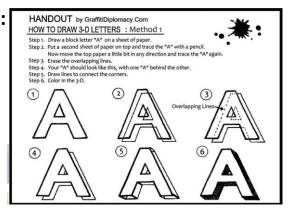
Year 8 Cycle 1 Knowledge Organiser Contents Page

Subject	Page Number
3D Design	5
Art and Design	6
Computer Science	7-9
Drama	10
English	11-17
Food and Nutrition	18-19
French	20-24
Geography	25-29
History	30-35
Life Skills	36-38
Maths	39-40
Music	41-42
PE	43
Religion, Philosophy and Ethics	44-46
Science	47-60
Spanish	61-66

oy a moving norizontal, nd can also
nclosed by a geometric
ensional e, sphere or
ntness or ng. This could dark or light a
e surface g. There are : Actual so you can sual texture is to represent
ted by es, tones or
e are primary as they can't other colours.

B. Key Knowledge 1: Use this guide to help practice your 3D lettering

Practice drawing letters 3D – try a variety of curved and straight letter forms



E. Expert Modelling:



















What Visual Elements can you see in this work? What equipment is needed to create a 3D letter?

CREATIVE ARTS

3D DESIGN – YR 8 – 3D LETTERS

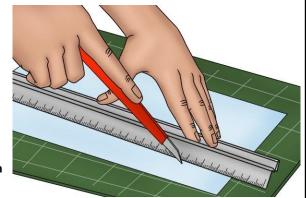
C. Key Knowledge 2: HEALTH & SAFETY RULES

Refer to your booklet for a larger version of the H&S Rules



D. Key Knowledge 3: Using a craft knife safely

- Use a metal safety ruler
- Hold ruler firmly with fingers in the middle away from the edge
- Keep the blade against the ruler when cutting



F. Wider thinking / further reading:

https://www.youtube.com/watch?v=BfL5m9epBxg Check out this tutorial on drawing 3D leeters

A. Visual	Elements Keywords				
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.				

B. Key Knowledge 1: DAY of the DEAD FESTIVAL

The Day of the Dead is a Mexican holiday celebrated throughout Mexico, in particular the Central and South regions, and by people of Mexican heritage elsewhere.

<u>Celebrations</u>: Creation of altars to remember the dead, traditional dishes for the Day of the Dead

<u>Date</u>: Monday, 2 November 2020 <u>Significance</u>: Prayer and remembrance of friends and <u>family</u> members who have died <u>Observed by: Mexico</u>, and regions with large <u>Mexican</u> population and Latin America



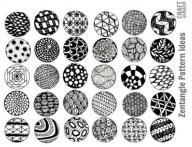


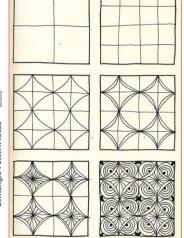
CREATIVE ARTS - ART & DESIGN Project – YEAR 8 TRADITION & INNOVATION

Threshold Concept #4 – Artists use traditional methods to create art. They also experiment and rebel against the 'rules' to create new ideas

C. Key Knowledge 2:

Research Zentangle patterns and practice them using this grid technique to help you.





E. Expert Modelling: Thaneeya McArdle















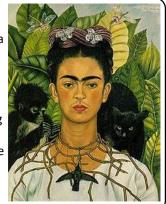




What Visual Elements can you see in this work?

D. Key Knowledge 3:

Frida Kahlo 6 July 1907 – 13 July 1954) was a Mexican painter known for her many portraits, self-portraits, and works inspired by the nature and artifacts of Mexico. Artist Frida Kahlo was considered one of Mexico's greatest artists who began painting mostly self-portraits after she was severely injured in a bus accident. Kahlo later became politically active and married fellow communist artist Diego Rivera in 1929.



F. Wider thinking / further reading:

https://www.youtube.com/watch?v= sSawpU81cl
What this short film about the Day of the Dead Festival

1.2.4 Data Storage

Binary

Binary is the language of the computer. Computers are made up of complex circuitry. These consist of billions of transistors that act as switches and they can only be in one of two states. ON (1) or OFF (0). In a binary number, the most significant bit is furthest to the left and the least significant bit is the furthest to the right.

Binary addition:

Addition		Result	Carry		Binary	Addition	Example	
0 + 0	=	0	0		carry int			
0 + 1	=	1	o	0110 0111	0 0110 0111	10 0110 0111	110 0110 0111	0110 0110 0111
1+0	=	1	0		1	01	101	1101 final result
1+1	=	0	1		resul first	t for column		

Denary to Binary:

1 Denary (decimal) to Binary

Example: Convert 81 to an 8-bit binary number.

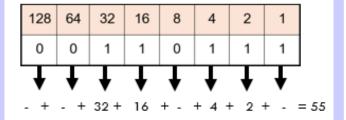
128	64	32	16	8	4	2	1	
0	1	0	1	0	0	0	1	=81

TIP:

- Best way to remember this is what numbers do we use to make the number 81?
- 2. In this example, 64+16+1 = 81
- Because we used these numbers, they are represented by 1.
- The others are represented by 0 as they were <u>not</u> used.

2 Binary to Denary (decimal)

Example: Convert the 8-bit binary number 00110111 into a denary (decimal) number.



TIP:

- The blanks represent the 0's because they were not used in this calculation.
- Once the numbers were identified, it was easy to input the 1's in the correct place.

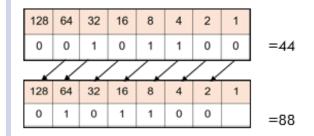
Binary shift:

9 Binary Shift

When working directly with binary numbers, a binary shift to the left and right can be used for multiplication and division respectively.

A left shift will multiply a binary number by 2

For example, a left shift of 1 (binary number x2)



A right shift does the opposite

It will divide a binary number by 2. For example, a right shift of 1 (binary number / 2)

Binary overflow

When numbers are added together, there is a risk that a binary overflow may occur. This is when there is not enough space to store a piece of data. For example, 255 bits can be stored in one byte. So the number 256.

1.2.4 Data Storage

Hexadecimal

In 1859, Nystrom proposed a hexadecimal (base 16) system of notation, arithmetic, and metrology called the Tonal system. Hexadecimal numerals are widely used by computer system designers and programmers because they provide a human-friendly representation of binary-coded values.

Hexadecimal to Binary:

5 Binary to Hexadecimal

Example: Convert 10110011 to hexadecimal.

Method

First you need to split them into two nibbles.

128	64	32	16	8	4	2	1
1	0	1	1	0	0	1	1

8	4	2	1
1	0	1	1

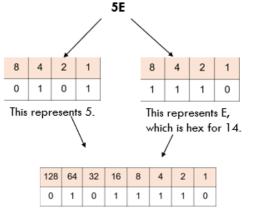
Add the first nibble 8 Add the first nibble 2 + 2 + 1 = 11 + 1 = 3

Remember is 11 is B in hex so the answer would be **B3.**



Example: Convert 5E to binary

<u>Method</u> - For this you must split them into two nibbles.



You bring them together to form an 8-bit binary number. So the answer is **01011110**

Hexadecimal to Denary:

3 Denary (decimal) to Hexadecimal

Example: How to convert 74 to hexadecimal. (Look at Hex table)

Method

- How many digits represent hexadecimals?
 16
- The formula would then be number to be converted/number of digits (74/16)
- If the number is not equally divisible then we must check how many times it goes into 16.
- 4. In this example, 74 goes into 16 4 times.
- It means the first part of the hexadecimal number is 4.
- 6. What remains? 16 x 4 = 64 (74-64 = 10)
- The remainder is 10 and in the hex table 10 is represented by **A**, and that completes the hexadecimal number.
- 8. Therefore the hexadecimal number of **74** is **4A**

4 Hexadecimal to Denary (decimal)

Example: Convert 5E to decimal

Method

- How many digits represent hexadecimals?
- The formula would then be first number*number of digits (5*16= 80)
- 3. Find out the value of E which is 14.
- 4. Add the 14 to the 80
- 5.80 + 14 = 94
- 6. Therefore the denary number of **5E is 94.**

Hex Table:

Denary	Hex
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	A
11	В
12	С
13	D
14	Е
15	F

2.1.2 Designing, creating and refining algorithms

Constructing algorithms

Algorithms can be constructed in many different ways. It could be a basic list of instructions, pseudocode or as a flow chart.

Syntax and Logic errors:

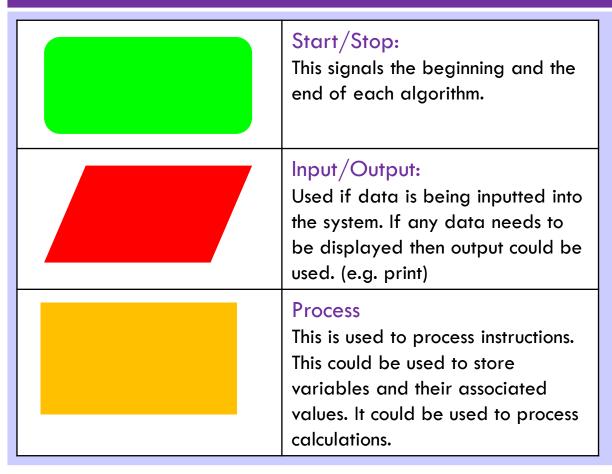
Syntax error:

This error occurs when the syntax used does not meet the rules set by the language. A common example is a grammatical mistake (e.g. print spelt incorrectly)

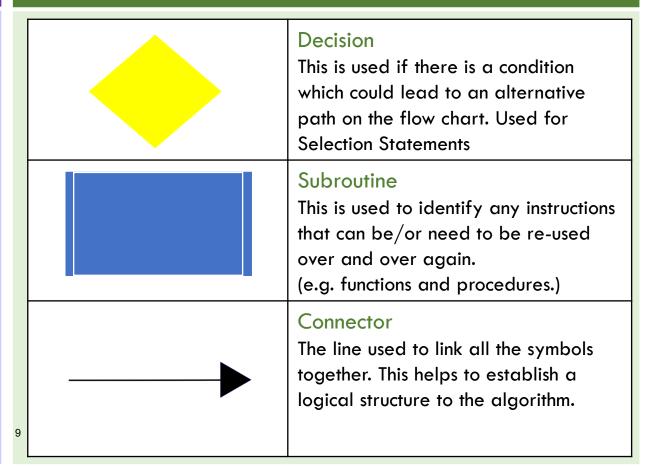
Logic error:

The program will appear to be working however, it might do what it's intended to do. A common example would be the use of an incorrect operator.

Flow chart symbols:



Flow chart symbols:



Year 8 Cycle 1 - Drama Knowledge Organiser

A. The Costermongers

Costermonger: is a street seller of fruit and vegetables in London and other British towns.

A Domestic Unit: refers to a dwelling that has no more than one family unit resident in place of permanent or semi-permanent, and which is used as a habitation

Cockney: A Cockney is a certain type of Londoner who speaks a distinctive Cockney dialect of English used in and around London (like the East End) by the working and lower-middle classes.

Poverty: the state of being extremely poor.

Pick Pocketing: the action of stealing from a person's pockets.

Rent: a tenant's regular payment to a landlord for the use of

property or land.







C. Costume Vocabulary

Dress Rehearsal: Dress full costume/ lighting effects/ sound/ effects/ action rehearsal.

Costume Plot: A list or chart, made by the costume designer showing the characters appearing in each scene, and what they are wearing.

Costume and Props: Items worn during a performance to communicate location, time period or character: Clothing, Make-up, Face paint, Mask.

Hot Seating:

Cockney Rhyming Slang:
Apples and pears = Stairs
Army and Navy = Gravy
Bees and Honey = Money
Bottle and Stopper = Copper
Day's a Dawning = Morning

Trouble and Strife = Wife



D. Key Words & Definitions

Health and Safety: Ensuring the rehearsal space is appropriate for performance.

Technical Rehearsal: Rehearsing the ques of the performance in order to input lighting and sound.

Set Design: Backdrops, props, stage furniture. **Scene:** A small section or portion of a play.

Stimulus: A starting point and approach to devising work.

Performance Skills:

Gesture: a defined movement which clearly communicates meaning. **Mime**: the theatrical technique of suggesting action, character or

emotion without words

Audience Awareness: being aware of the audience and not having your back to them.

Silence: complete absence of sound.

Stillness: the absence of movement or sound.

B. Developing Mood and Characterisation

Mood: is the overall feeling created in a dramatic performance.

Tension: A sense of anticipation or conflict within characters or character relationships, or problems, surprise and mystery in stories and ideas to propel dramatic action and create audience engagement.

Character: a person portrayed in a drama, novel, or other artistic piece. **Characterisation:** how an actor uses body, voice, and thought to develop and portray a character. choreography: the movement of actors and dancers to music in a play.

Posture: is the position of a person's body when standing or sitting **Stance:** way of standing. Gesture. movement of any part of the body to express idea, feeling. or mood.

Expression: Communicate ideas through actions and words using imagination and background knowledge

E. Lighting

Strobe light: flashing light.

Par Can: A very cheap lantern, it is bright and gels can be used to set the mood.

General Wash: A general fill of light and colour across the stage.

Working Lights: Lights used by stage crew to aid work.

Challenge: How would you use space, sound and movement to communicate that you were nervous about not being able to pay the rent?

F. Performance Skills

Non Verbal communication: the transfer of information through the use of body language

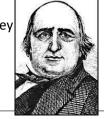
Thought Track: when a character steps out of a scene to address the audience about how they're feeling

Vocalisation: When an actor uses the voice to build their character considering: pitch, pace, tone, volume, emphasis, intonation, age, dialect, speech pattern, and personality

Audience engagement: to use performance skills to engage the audience in the performance.

Character Motivation: is what drives them or what they achieve

Challenge: Find out who Henry Mayhew is. If he was to ask questions to people in the Market, what might he say? Make a list of 4-6 questions.



SPARX Reader Instructions - Stick Here

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 'digging deeper' information as you can remember. Check it all with a purple pen. Tick what is correct, fix what is wrong.

Coon	nbeshead Academy Inspiring Ex	cellence	English Learning Area		Year 8 Long Way Down and Poetry
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). The man ran quickly.		Verse novel: A form of literature. A story is told through the form of a poem rather than
k 1	Adverb	A word that modifies a verb.	The woman ate hungrily.		prose (written language in its
Week	Adjective	A word that modifies a noun.	The red door. The blue sky.		ordinary form). There will usually be lots of characters and description. 'Long Way Down' was written by Jason Reynolds and published in 2017.
	Pronoun	A word that replaces a noun.	Fred went to the shop. He bought some milk.		Digging Deeper: Key theme
	Simile Sim/a/lee	Where things are compared using 'like' or 'as'.	The sun glittered like a jewel. The sun was as glittery as a jewel.		• Will (main character) tells the story of his brother's death from a gang-related
Week2	Metaphor Met/a/for	Where things are compared by saying that something 'is' something else.	The sun was a jewel. The sun is a jewel.	Week2	 incident. He travels in an elevator on his way to avenge his brother's death. Throughout his journey to the ground floor, lots of people join the elevator. They are the ghosts of people who died in similar incidents to his brother. The book suggests that although it is good to have love and loyalty for people, it can be used in a destructive way.

		The name of a person, thing or	Billy is in my class.	Π		Diggin	g Deeper: Key theme
		place.	Put the pen on the			Grief	
	Noun		table.			•	Will introduces the idea that people in the neighbourhood have to live by
			I am going to Exeter at				'rules'.
w w			the weekend.		- - Α	•	These include things like no 'snitching' (telling the police), no crying and
ee ee		Writing arranged with a	'Long Way Down' is a		ee/		getting revenge where it is needed.
3	Verse	metrical rhythm.	verse novel because the		3	•	The book suggests that it is these 'rules' that cause the problems with violence.
			text has a rhythm.			•	This is ironic because the people who follow the rules think that they
	Rhythm	A strong, repeated pattern of	'Long Way Down' has				make sure that society is fair and just.
	Ri/th/m	sound.	rhythm in its verses.				

Week 4	Connective Audience Or/dee/un/s Purpose	A word or phrase that connects words/sentences. The person/people a text is written for. The reason a text is written.	Similarly, however, on the other hand. 'Long Way Down' was written for young people. The purpose of the novel is to help prevent gun and gang violence.	Week 4	Perspective and reality • All of the people in the elevator except Will are ghosts. • The book therefore offers an insight into a perspective that the audience would not have in real life- the viewpoints of the dead. • The message given is that what people believe to be true, and what is actually true, can be very different. • This is emphasised by the fact that Will spends a lot of time trying to avoid the ghost's difficult questions.
Week 5	Dialogue Die/a/log	Speech between two or more characters. A style or category of	"May as well do the job properly," Oliver said with some satisfaction. "Oh, you boys" "Now come on, Will, your turn, isn't it?" "No, Edmund's." (From TWIB, Chapter 1)	Week 5	Digging Deeper: Masculinity and coming of age • Will is 15 and on the brink of coming of age. • When his brother is killed, he realises that he must mature more quickly than expected. • For Will, this means how capable he is of killing someone else.
	Genre Shon/ra Simple sentence	A clause that contains a subject and a verb.	to the Young Adult fiction genre. The man kicked the football. Subject Verb		 The ghosts remind Will that he is still only a child and his idea of being masculine is misguided. The irony is that acting in the way that Will wants to will not make him 'grow up', but will actually cut his life short.
Week 6	Narrative	A spoken or written telling of events; a story.	The narrative of 'Long Way Down' is a boy is search of revenge for his brother's death. 14	Week 6	

	Two main clauses joined with	The sun was shining and it		Digging Deeper: Key character
Compound sentence	a connective.	was hot.		
Compound sentence		Main clause		Will Holloman
		Connective		
	A poem of 14 lines, usually	Shakespeare wrote lots		The story is told from Will's
	having 10 syllables per line.	of sonnets.	perspective.	
Common				He is sensitive and loves language, but is desperate to grow
Sonnet				up.
				He thinks he can achieve this by following his other male
				family members; following the 'rules' of the neighbourhood.

Week 7	Complex Sentence Speech Analysis Ana/la/sis	A main clause and a subordinate clause glued together with a comma. A formal address given to an audience. A detailed examination of something.	Although it was raining, he went outside. Main clause Subordinate clause "Friends, Romans, countrymen, lend me your ears". The first line of Mark Antony's speech. In English, we analyse texts to get an understanding of their deeper meaning.	Week 7	Digging Deeper: Key character Shawn Holloman Will's older brother who was killed in a revenge attack. Had a clean side of the bedroom, but a messy middle drawer. Will thinks this represents Shawn's dark side. Shawn gets into the elevator but doesn't speak to Will. Instead, he cries. He simply asks if he will get out of the elevator with the ghosts.
Week 8	Enjambment En/jam/bu/ment Rhetorical Question Question mark	Where the end of a line of poetry follows into the next without punctuation. A question that is there to cause drama; it does not need an answer. The punctuation that goes at the end of a sentence.	There is lots of enjambment in the novel to reflect the narrative. "Who is here so vile that will not love his country?" This is said to create tension, not because Brutus wants someone to answer. "Who is here so vile that will not love his country?" We know this is a question because it has a question mark at the end of it.	Week 8	Power The ability to do something or act in a particular way. Will wants to feel powerful, but is struggling. He realises that he is still only a child and actually doesn't have the character to act upon the revenge. We saw a loss of power when the animals in 'Animal Farm' were exploited. Arthur Kipps lost power over his family to the woman in black. Julius Caesar lost power when he was assassinated.
Week	Protagonist	The main character in a story/narrative.	Julius Caesar is the protagonist in the play.		

	Triplet/Rule of Three Fronted Adverbial	When three words/ phrases/ideas are used to create effect An adverb, or phrase that works like an adverb, at the start of a sentence	"After the funeral, I want you to go to Eel Marsh House" (TWIB). Is this an adverbial of time, manner or place?		
	Antagonist	The character that goes against the main character creating conflict.	Cassius is a possible antagonist in Julius Caesar.		
Week 10	Tension	The feeling of nervousness or worry about what may happen in a story.	The audience feels tension when Arthur is about to open the nursery door.		
	Tone	The overall attitude or mood of a text.	The tone of the novel is often sombre.		

Digging Deeper: Key anthology theme Conflict



- In English, we come across both physical and internal conflict.
- Lots of our studied poems are focused on war and the effects of this on soldiers.
- Examples include 'Bayonet Charge' and 'The Charge of the Light Brigade'.
- Other poems focus on internal conflict. This means that someone feels two opposite emotions/feelings at the same time.
- Examples include 'Poppies' and 'Kamikaze'.
- In 'Long Way Down', there is a physical conflict between gang members.
- Will is also having an internal conflict because he doesn't know what to do for the best.

Digging Deeper extension Tasks:

Either



- Write a diary entry from the perspective of Will or Shawn.
 - OR
- Rewrite the main narrative of the story from someone else's perspective. For example, would Buck have seen Will's story in the same way?
 - OR
- Create a poster that has a picture of the characters in the elevator

Week 1 & 2	Week 3 & 4
Nutrition recall	Diet, nutrition & Health

<u>Balanced diet definition</u>: Eating a wide variety of foods in the right proportions, and the right amount of food and drink to achieve and maintain a healthy body weight.

8 tips for a healthy diet

- 1. Base your meals on higher fibre starchy carbohydrates.
- 2. Eat lots of fruit and veg.
- 3. Eat more fish, including a portion of oily fish.
- 4. Cut down on saturated fat and sugar.
- 5. Eat less salt: no more than 6g a day for adults.
- 6. Get active and be a healthy weight.
- 7. Do not get thirsty.
- 8. Do not skip breakfast.

VITAMINS AND THEIR FUNCTIONS

		Function (what does it do?)		Source (foods found in)
Α	•	Healthy skin Helps us see in the dark	•	Animals – liver and milk Plants – carrots and red peppers
В	•	Releases energy from food	•	Bread, fish, broccoli, liver, milk, peas, rice
С	•	Keeps connective tissue healthy Helps absorb iron	•	Oranges, blackcurrants, broccoli, red and green peppers
D	•	Helps the body absorb calcium	•	Butter, eggs, milk, oily fish

MINERALS AND THEIR FUNCTIONS

	Function (what does it do?)	Source (foods found in)
Calcium	Build strong bones and teeth	Yoghurt, cheese, milk, tofu
Sodium (salt)	Keeps the correct water balance in the body	Cheese, ready meals, salted nuts, bacon
Iron	Keeps red blood cells healthy	Dark green vegetables, beans, fish, egg yolk, red meat

Questions:

- 1. What colour is each section of the Eatwell guide?
- 2. What should we cut down on eating too much of?
- 3. What do the letters GERM stand for in proteins function in the body?
- 4. What do the letter PIE stand for in fats functions in the body?

Over vs under-nutrition

Over-nutrition – eating too much food, or too much of a certain food. Under-nutrition - eating too little food or too little of a particular nutrient

Definitions:

- Obesity, or being obese, means being very overweight.
- Cardiovascular disease covers a group of diseases, including diseases of the heart and blood vessels.
- CHD (coronary heart disease) occurs when blood vessels to the heart become blocked with fatty deposits.
- Type 2 diabetes is the most common type of diabetes in the UK. It causes the sugar in the blood to get too high.

The main health problems linked to obesity?

- Type 2 diabetes
- Coronary heart disease
- Stroke
- Cancers
- Arthritis
- Depression



The signs of type 2 diabetes

- Feeling tired all the time
- Feeling thirsty
- Passing more urine than normal

The main the risk factors are for CHD

- High blood pressure
- Smoking
- High cholesterol
- Diabetes
- Not exercising enough
- Being overweight or obese
- DNA
- Ethnic background

Normal





Questions:

- 1. What are the main health problems associated with obesity?
- 2. What is coronary heart disease? Explain
- 3. What is the difference between type 1 and 2 diabetes?
- 4. How can you treat type 2 diabetes?

Week 5 & 6 Allergies and intolerances

Week 7 & 8 Seasonality and food waste

Some foods are seasonal. This means that they are only available and grown at certain times of the year.

Definitions:

Allergen – a substance or food that may cause an allergic reaction.

Allergic reaction – Where the body reacts suddenly and often seriously to certain foods.



In the worst cases of food allergies, some people suffer severe reactions which can stop them breathing. They will need an injection of adrenaline from an EpiPen to help them recover.

Allergy information should be clearly shown on any ingredients list by highlighting the ingredient in bold.

The 2 main types of intolerance are lactose intolerance (dairy) and coeliac disease (gluten).

- Lactose intolerance = one of the most common. People who cannot digest lactose (natural sugar found in milk and other dairy foods).
- Intolerance to gluten is known as coeliac disease. Symptoms include Diarrhoea, Bloating and Weight loss

Questions:

- 1. What is the difference between a food allergy and intolerance?
- 2. Name 5 foods that could cause a food allergy?
- 3. What can happen to somebody who accidentally eats a food that they are severely allergic to e.g. nuts?

Plan a meal for a teenager who is a Coeliac. Explain what you would substitute and for what?

How is food wasted?

There are 2 main reasons we waste food at home:

- 1. We make too much
- 2. We don't use food before it goes off

Using leftovers

You could use leftover food to make another dish such as:

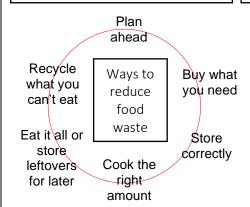
- Rice and pasta in salads
- Bread for breadcrumbs. Used to coat fishcakes, chicken goujons
- Potatoes used for bubble and squeak or frittata
- Chicken used in chicken curry or pie

Advantages of seasonal foods

- More likely to be grown in the UK
- Reduced food miles and carbon footprint
- Supports local businesses
- Can be fresher than buying out of season
- More available which makes them cheaper

<u>Disadvantages of seasonal</u> <u>foods</u>

- They can be used a lot during some seasons which means people could become bored of them
- There can be too much of some foods that will be wasted if they are not eaten



Questions:

- 1. What does 'seasonal' mean?
- Give 2 advantages and 2 disadvantages of seasonal foods
- 3. What are the 4 seasons in the UK?
- 4. Create a meal that could be made using leftovers from a roast chicken dinner.

Week 1: 09/9/24, Week 2: 16/9/24

- 1. Use the sentence builder to write 3-5 sentences in French
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into French without looking

4.	Correct	in	purpl	e	pen
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Verb	Noun	Opinion verb	Noun	connective	verb	opinion adjective
Je regarde (I watch) Je ne regarde pas (I don't watch) Je ne regarde jamais (I never watch) Je ne rate jamais (I never miss)	les émissions de sport (sports programmes) les émissions de téléréalité (reality TV programmes) les émissions musicales (music programmes) les infos (the news) les séries (series) les jeux télévisés (game shows) les dessins animés (cartoons) les documentaires (documentaries)	j'adore (I love) j'aime (I like) je déteste (I hate) je n'aime pas (I don't like)	les émissions de sport (sports programmes) les émissions de téléréalité (reality TV programmes) les émissions musicales (music programmes) les infos (the news) les séries (series) les jeux télévisés (game shows) les dessins animés (cartoons) les documentaires (documentaries)	parce que car (because)	je trouve ça (I find it)	amusant (funny) bien (good) barbant (boring) chouette (great) effrayant (scary) émouvant (moving) génial (great) intéressant (interesting) passionnant (exciting) stupide/idiot (stupid)

Week 3: 23/9/24, Week 4: 30/9/24

- 1. Use the sentence builder to write 3-5 sentences in French
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into French without looking4. Correct in purple pen

Verb		Noun	Connective	Intensifier	Opinion adjective	connect ive	Opinion adjective
		films d 'action			amusant		amusant
		(action films)		assez	(funny)		(funny)
J'aime		,		(quite)	, ,,		
		films fantastiques			bien		bien
Je n'aime pas		(fantasy films)		très	(good)		(good)
·		, , ,		(very)			1
Je regarde		comédies			barbant		barbant
_		(comedy films)		un peu	(boring)	et	(boring)
Je ne regarde jamais	les	, , ,		(a bit)		(and)	
		films musicaux	car je trouve ça		chouette		chouette
J'ai une passion pour		(musicals)	(because I find it)	complètement	(great)	mais	(great)
(I have a passion for)				(completely)		(but)	
		films d' amour			effrayant		effrayant
Je ne supporte pas		(love films)		extrêmement	(scary)	aussi	(scary)
(I can't stand)				(extremely)		(also)	
		films d 'aventure			émouvant		émouvant
Je suis fan de				vraiment	(moving)		(moving)
(I'm a fan of)		films de science-		(really)			
		fiction			génial		génial
Je ne suis pas fan de				hyper	(great)		(great)
(I'm not a fan of)		films d 'arts		(super)			
		martiaux			intéressant		intéressant
		(martial arts films)			(interesting)		(interesting)
		dessins animés			passionnant		passionnant
		(animated films)			(exciting)		(exciting)
					stupide/idiot		stupide/idiot

Week 5: 7/10/24, Week 6: 14/10/24

- 1. Use the sentence builder to write 3-5 sentences in French
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into French without looking

4.	Correct	in pur	ple pen
•••	••••		P.

Time marker	Verb	Noun	Verb	Intensifier	Opinion Adjective	verb	Intensifier	Adjective
		un roman policier						
		(a crime novel)						
		un roman de science-fiction			drôle			drôle
		(a sci-fi novel)		assez	(funny)		assez	(funny)
			et c'est	(quite)			(quite)	
		un roman d'amour	(and it's)		triste			triste
En ce moment		(a romantic novel)		très	(sad)		très	(sad)
(at the			et je	(very)			(very)	
moment)		un roman fantastique	pense que		effrayant			effrayant
Manager		(a fantasy novel)	c'est	un peu	(scary)		un peu	(scary)
Normalement	le lie	un roman d'avantura	(and I	(a bit)	intéressant	ma aria	(a bit)	intéressant
(Normally)	Je lis	un roman d'aventure (an adventure novel)	think it's)	complètement	(interesting)	mais c'est	complètement	(interesting)
D'habitude	(I read/	(an davernore novel)	et à mon	(completely)	passionnant	(but	(completely)	passionnant
(usually)	I am	un livre sur les animaux	avis c'est	(Completely)	(exciting)	it's)	(COMPICION)	(exciting)
(oso any)	reading)	(a book about animals)	(and in	extrêmement	(Oxening)		extrêmement	(oxemig)
Quelquefois	1 2 2 2 2 3 3 7		my	(extremely)	émouvant		(extremely)	émouvant
(sometimes)		un livre d'épouvante	opinion		(moving)			(moving)
		(a horror/scary book)	it's)	vraiment			vraiment	
				(really)	ennuyeux		(really)	ennuyeux
		un magazine			(boring)			(boring)
		(a magazine)		hyper			hyper	
				(super)	difficile		(super)	difficile
		un journal (a newspaper)			(difficult)		1.	(difficult)
		DD (see a see a se		trop			trop	
		une BD (a comic book)		(too)	nul		(too)	nul
					(rubbish)			(rubbish)

Week 7: 21/10/24, Week 8: 4/11/24

- 1. Use the sentence builder to write 3-5 sentences in French
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into French without looking4. Correct in purple pen

Verb	Frequency	key phrase	connective	opinion phrase	Adjective
		Je fais des achats			
		(I make purchases)			amusant
					(funny)
		J'envoie des emails/des			
		textos			assez bien
		(I send emails/texts)			(quite good)
	au alau afais	In fair man dovoire			la arla ara t
	quelquefois	Je fais mes devoirs			barbant
	(sometimes)	(I do my homework)		selon moi c'est	(boring)
	L L	Later N. Later		(according to me it's)	. 1 11 .
	tous les soirs	Je joue à des jeux			chouette
Numeral la aula compostó	(every evening)	(I play games)	parce que	je pense que c'est	(great)
Quand je suis connecté		la fais des avir	(because)	(I think it's)	a wasti au ya
When I am online)	une fois par semaine	Je fais des quiz			pratique
	(one time per week)	(I do quizzes)	car	Je trouve que c'est	(practical)
			(because)	(I find it's)	
	d'habitude	Je regarde des clips vidéos			génial
as B	(usually)	(I watch video clips)		à mon avis c'est	(great)
				(in my opinion it's)	
	souvent	Je lis des infos			intéressant
	(often)	(I read the news)			(interesting)
		je télécharge des chansons			passionnant
		(I download songs)			(exciting)
		Je tchatte en ligne			stupide/idiot
		(I chat online)			(stupid)

Week 9: 11/11/24, Week 10: 18/11/24

- 1. Use the sentence builder to write 3-5 sentences in French
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into French without looking

4. Correct in purple pen

Time marker	Future tense verb	connective	Future tense verb 2	future tense	adjective
	je vais regarder la télé/un film		je vais regarder la télé/un film		
	(I'm going to watch TV/ a film)		(I'm going to watch TV/ a film)		
					amusant
	je vais écouter de la musique		je vais écouter de la musique		(funny)
	(I'm going to listen to music)		(I'm going to listen to music)		, ,,
Demain			,		assez bien
(Tomorrow)	je vais surfer sur internet		je vais surfer sur internet		(quite good)
,	(I'm going to surf on the internet)	plus tard	(I'm going to surf on the internet)		()
Demain soir		(later)			barbant
(tomorrow	je vais jouer aux jeux en ligne		je vais jouer aux jeux en ligne		(boring)
evening)	(I'm going to play games online)	puis	(I'm going to play games online)		(3 3)
o · o · · · · · · g _j	(in genig to pray genines ermine)	(then)	(i iii geinig ie pier geinies ei iii is j		chouette
Demain matin	je vais poster des photos	(,	je vais poster des photos	ce sera	(great)
(tomorrow	(I'm going to post photos)	ensuite	(I'm going to post photos)	(it will be)	(9. 5 5)
morning)	(consigning to proceed)	(next)	(consigning to proceed)	(pratique
	je vais télécharger des chansons	(,	je vais télécharger des chansons	ce ne sera	(practical)
Demain après-	(I'm going to download songs)	après	(I'm going to download songs)	pas	(praemean)
midi	(in genig to download songs)	(after)	(im genig ie de wine da serige)	(it will not be)	génial
(tomorrow	je vais envoyer des textos	(35.)	je vais envoyer des textos	((great)
afternoon)	(I'm going to send texts)	finalement	(I'm going to send texts)		(9.00.7
arronnoon	(in going to some roxis)	(finally)	(im going to some roxis)		intéressant
Ce weekend	je vais lire mon livre	(je vais lire mon livre		(interesting)
(this weekend)	(I'm going to read my book)		(I'm going to read my book)		(1111010311119)
(IIII) WOOKONA)	(im going to road my book)		(im going to road my book)		passionnant
170 736	je vais dîner en famille		ie vais dîner en famille		(exciting)
FUTURE	(I'm going to eat with my family)		(I'm going to eat with my family)		(CACIIII 19)
TO I	je vais faire mes devoirs		je vais faire mes devoirs		stupide/idiot
	(I'm going to do my homework)		(I'm going to do my homework)		(stupid)
	(init going to do my nomework)		(in going to do my nomework)		(310plu)





Week 1 – Friday 13	^{3th} September 2024	Week 2 – Friday 20 th September 2024		
Lesson 1 – Elements of weather	Lesson 2 – Factors affecting climate	Lesson 3 – High and low pressure	Key Word Practice	
Key Terms: Weather: The state of the atmosphere at a given point in time. For example, dry and sunny or rain. Climate: The average weather for a place over a long period of time, typically 30 years. For example, desert, temperate, arctic. Precipitation: Any moisture that falls from the sky.	Key Terms: Latitude: The measurement on a globe or map of locations north or south of the Equator. Altitude: The distance above sea level.	Key Terms: Low Pressure: Air rising from the surface of Earth into the atmosphere. High Pressure: Air falling from the atmosphere to Earth's surface.	TASK: For the 10 key words below, either write each one out 3 times using look, cover, write, check, OR define each one. 1. Weather 2. Climate	
Content: There are several different elements that make up the weather:	Content: Latitude: The equator is warmer due to the sun being directly overhead.	Content: Low pressure: Also called a depression. The air rises (evaporation),	3. Temperature	
 Temperature: Measured in Degrees Celsius using a thermometer. Wind Speed: Measured in kmph, 	Temperature decreases the closest you get to the poles. • Ocean currents: These can make	cools (condensation) causing clouds and precipitation.	4. Precipitation	
 knots or mph using an anemometer. Wind Direction: Measured using a wind vane and shown as N,E,S,W. 	places warmer or cooler depending on the direction. The Gulf Stream warms the UK.	3 bocace the organize is over all profile in the part. This is whether the part. This is whet	5. Latitude	
 Precipitation: Measured in mm using a rain gauge. Cloud Cover: Estimated by eye and 	 Altitude: The temperature decreases by 1°C every 100m Distance from the sea: The ocean 	High pressure : Cool air is sinking; this leads to clear skies and warm sunny weather in the summer but cold sunny	6. Altitude	
expressed in Octas.Pressure: Measured in millibars using a barometer.	generally has a cooling affect. • Wind: The direction of this can make a place warmer or cooler.	weather in winter. High Pressure 2. The of cools in the support discounting the support of the	7. Currents	
		Negation or	8. Low pressure	
Questions: 1. What is weather? 2. What is climate?	5. What is latitude and altitude? 6. How does latitude and altitude affect climate?	Questions: 1. What is low pressure? 2. Draw a diagram of low pressure	9. Depression	
3. How is temperature and precipitation measured?4. How is wind speed and direction measured?	7. How does ocean currents and distance from sea affect climate?8. How does cloud cover affect climate?	3. What is high pressure?4. Draw a diagram of high pressure5. Copy out the 10 key words 3 times	10. High pressure	





Week 3 – Friday 2	7 th September 2024	Week 4 – Friday 4 th October 2024		
Lesson 4 – Global pressure	Lesson 5 – Types of rain	Lesson 6 – UK climate graphs	Key Word Practice	
Key Terms: Insolation: The amount of solar radiation received in the Earth's atmosphere or at the Earth's surface.	Key Terms: Evaporation: The process of turning a liquid into vapour/gas. Condensation: The process where water vapour is changed into a liquid.	Key Terms: Climate Graph: A graph to show the average temperature and precipitation for a year for a given area.	TASK: For the 10 key words below, either write each one out 3 times using look, cover, write, check, OR define each one. 1. Insolation	
Content:	Content:	Content:	2. High pressure	
The Equator receives the highest levels of insolation and is hot and the Polar regions receive the lowest levels	Convectional rainfall: Sun heats the land and air rises, cools,	Climate graphs have two y axis: • Red: Temperature (Line) • Blue: Precipitation (bars) The manths are glong the y axis	3. Low pressure	
of insolation and are cold. Global air pressures:	condenses and forms cloud and rain.	The months are along the x axis	4. Evaporation	
 Low pressure at the Equator causing clouds and precipitation. It is hot and wet climate which is ideal for vegetation growth. High pressure at 30° causing cloudless skies. This means it is very hot and dry, so no plants grow, creating deserts. Low pressure at 60° causing clouds and precipitation. It is cool and wet. 	Relief rainfall: Warm air forced to rise, cools and condenses forming clouds and rain. Frontal rainfall: Warm air forced to rise over cold air,	Station: (London) District: SE & Central S England 24 22 20 18 16 14 12 10 80 40 40 20	5. Condensation6. Convectional7. Relief	
 High pressure at 90° causing it to be very cold and dry. 	condensing and forming clouds and rain.	Month	8. Frontal	
'Questions: 1. What is insolation? 2. Where is high and low insolation?	5. What is evaporation and condensation?6. Draw a diagram of convectional	Questions: 1. What is a climate graph? 2. What are on the two y axis?	9. Temperature	
3. What's happening at the equator?4. What's happening at 30 ° and 60°?	rainfall 7. Draw a diagram of relief rainfall 8. Draw a diagram of frontal rainfall	3. What is on the x axis?4. How is temperature and rainfall shown on a climate graph?5. Copy out the 10 key words 3 times	10. Precipitation	





Week 5 – Friday 11 th October 2024		Week 6 – Friday 18 th October 2024	
Lesson 7 – Weather hazards	Lesson 8 – Formation of tropical storms	Lesson 9 – Hurricane Katrina (1)	Key Word Practice
Key Terms: Meteorology: Science that deals with the atmosphere, weather, and weather forecasting. Weather hazards: Meteorological events which can have an impact on people and property.	Key Terms: Tropical Storm: A very powerful low- pressure weather systems that has strong winds and heavy rainfall. Wind shear: Changes in wind speed and/or direction with height.	Key Terms: Hurricane Katrina: A devastating tropical storm that hit the area around New Orleans, USA, on 25 August 2005. Storm surge: A change in sea level that is caused by a storm.	TASK: For the 10 key words below, either write each one out 3 times using look, cover, write, check, OR define each one. 1. Meteorology
Content:	Content:	Content:	2. Drought
 Drought: Prolonged period of high pressure with no rainfall. Lead to crop failure Forest fires: Intense heat causes 	Tropical storms form when ocean surface temperature is above 27°c. This is usually between the Tropic of Cancer (23.5° North) and the Tropic of	 Formation and background: Developed in the Atlantic. 400 miles wide & 100-175 mph winds New Orleans 2m below sea level. 	3. Blizzard
vegetation to dry out and vulnerable to burning. Australia 2019-2020 lead to 34 deaths.	Capricorn (23.5° South). Formation of a tropical storm:	 8m storm surge. Social impacts (people): 1,800 people died. 	4. Tropical storm
Mid latitude storms: Happen when warm and cold air meet causing intense low pressure. E.g.: Storm Denis 2020, £225 million in damages.	1.Rapid evaporation and condensation cause large cumulous nimbus clouds to form. 2.Low wind shear means that these	 300,000 homes were destroyed. 3 million people had no electricity. Economic impacts (money): \$300 billion of damage. 	5. Wind shear6. Hurricane
• Flood: Caused by prolonged or intense rainfall. Monsoon in Pakistan (2022) 1739 deaths, £15 billion damage.	continue to grow. 3.More warm moist air is drawn in. 4.Cool air sinks in the middle creating the eye.	 Oil platforms were destroyed. 80% the man-made levees, overwhelmed by extra water and broke. 	7. Cyclone
Blizzard: Cold weather and heavy snow e.g.: Beast from the East March 2018.	5.Start to spin due to the spin of the Earth.	Cotton and sugar cane crops were destroyed.	8. Typhoon
Questions:1. What are weather hazards?2. What is a drought?3. Outline examples of forest fires and	5. What is a tropical storm?6. What are they called in the different oceans?7. What temperature is needed to	Questions:1. What is a storm surge?2. Give 4 facts about the formation and background	9. Levees
mid latitude storms 4. What are floods and blizzards?	form tropical storms? 8. State the 5 steps in creating tropical storms.	3. Give 3 social impacts4. Give 5 economic impacts5. Copy out the 10 key words 3 times	10. Vulnerable





Key Terms: Acre: An area of land around 4,000m Superdrome: Multi-purpose stadium located in the centre of New Orleans and seats 83,000 people. Content: Enhanced greenhouse effect: Additional heat retained due to the increased amounts of greenhouse gases that humans have released into the earth's atmosphere. Content: Environmental impacts: Coastal habitats were destroyed. Cacostal habitats were destroyed. Cacostal habitats were destroyed. 1.3 m acres of woodland destroyed. Methane Nitrous Oxide Nit	Week 7 – Friday 25 th October 2024		Week 8 – Friday 8 th November 2024		
Acre: An area of land around 4,000m² Superdrome: Multi-purpose stadium located in the centre of New Orleans and seats 83,000 people. Content: Environmental impacts: - The storm surge flooded large areas of the cast Coastal habitats were destroyed To million gallons of crude oil spilled 1.3m acres of woodland destroyed 1.3m acres of woodland destroyed 1.0000 people left the city 10,000 people who were too poor to evacuate) took refuge in the superdome Emergency services overwhelmed. Long term response: - 220 miles of flood walls & levees strengthened or replaced to lower the chances of severe flooding. Questions: - Nitrous of the transport of the care? - What is the greenhouse effect? - State 4 environmental impacts - Wilting the sun's warmth in a planet's lower atmosphere. In planet's lower atmosphere. In planet's lower atmosphere. In planet's lower atmosphere Content: - Content: - The natural or human activity Additional heat retained due to the increased amounts of greenhouse gases into the carth's atmosphere Content: - The natural or human activity Additional heat retained due to the increased amounts of greenhouse gases in our atmosphere Content: - The natural or human activity Content: - Human causes of climate change: - Nitrous Oxide - Netron discusses of climate change: - Content: - Human causes of limate change: - Content: - Human causes of limate change: - Nitrous oxide - Nitro	Lesson 10 – Hurricane Katrina (2)	Lesson 11 – Greenhouse effect	Lesson 12 – Causes of climate change	Key Word Practice	
the sun's warmth in a planet's lower atmosphere. Superdrome: Multi-purpose stadium located in the centre of New Orleans and seats 83,000 people. Endanced greenhouse effect: Additional heat retained due to the increased amounts of greenhouse gases that humans have released into the earth's atmosphere. Content: Environmental impacts: The storm surge flooded large areas of the coast. Coastal habitats were destroyed. 7 million gallons of crude oil spilled. 1.3m acres of woodland destroyed. People boarded-up homes/used sheeting. 90% of people left the city. 10,000 people (who were too poor to evacuate) took refuge in the Superdome. Emergency services overwhelmed. Long term response: 220 miles of flood walls & levees strengthened or replaced to lower the chances of severe flooding. Questions: 1. What is the greenhouse gases floor. \$\text{the sun's warmth in a planet's lower atmosphere. The dropole do to the increased amounts of greenhouse effect: Additional heat retained due to the increased amounts of greenhouse effect: Content: The natural greenhouse effect (GHE) is due to the gasses in our atmosphere. The greenhouse effect is caused of limite change: People boarded-up homes/used sheeting. 90% of people left the city. 10,000 people (who were too poor to evacuate) took refuge in the Superdome. Emergency services overwhelmed. Long term response: 220 miles of flood walls & levees strengthened or replaced to lower the chances of severe flooding. Questions: 1. What is the greenhouse effect? 5. What is the greenhouse effect? 6. State 4 greenhouse gases in our atmosphere. The change exposed into the gasses in our atmosphere. The change expose include: Unimediate responses: People boarded-up homes/used sheeting. 90% of people left the city. 10,000 people (who were too poor to evacuate) took refuge in the Superdome. Emergency services overwhelmed. 10,000 people (who were too poor to evacuate) took refuge in the Superdome. 11,000 people (who were too poor took evacuate) took refuge the pr	Key Terms:	Key Terms:		TASK: For the 10 key words below,	
Superdrome: Multi-purpose stadium located in the centre of New Orleans and seats 83,000 people. Enhanced greenhouse effect: Additional heat retained due to the increased amounts of greenhouse gases that humans have released into the earth's atmosphere. Content: Environmental impacts: Content: The natural greenhouse effect (GHE not possible) of the coast. Coastal habitats were destroyed. The natural greenhouse effect (GHE nor political change) of the coast. Carbon Dioxide Nethone Neth	Acre: An area of land around 4,000m ²	Greenhouse effect: The trapping of	Climate change: Any change in	either write each one out 3 times	
Content:		the sun's warmth in a planet's lower	global temperatures and	using look, cover, write, check, OR	
Additional heat retained due to the increased amounts of greenhouse gases that humans have released into the earth's atmosphere. Content: Environmental impacts: The storm surge flooded large areas of the coast. Coastal habitats were destroyed. To million gallons of crude oil spilled. To million gallons of crude oil spilled. To medical responses: People boarded-up homes/used sheeting. Poop of people left the city. Pompor of people left the city. Pom	Superdrome: Multi-purpose stadium	atmosphere.	precipitation (rainfall) over time, due	define each one.	
increased amounts of greenhouse gases that humans have released into the earth's atmosphere. Content: Environmental impacts: • The storm surge flooded large areas of the coast. • Coastal habitats were destroyed. • Time natural greenhouse gases in our atmosphere. The greenhouse gases include: • Time of people boarded-up homes/used sheeting. • People boarded-up homes/used sheeting. • Poople boarded-up homes/used sheeting. • Double for exponses: • People boarded-up homes/used sheeting. • Double for exponses: • People boarded-up homes/used sheeting. • Water vapour The enhanced greenhouse effect is caused by human activity including burning fossil fuels, intensive agriculture, deforestation. • Emergency services overwhelmed. Long term response: • 220 miles of flood walls & levees strengthened or replaced to lower the chances of severe flooding. Coestions: • Nitrous Oxide • Water vapour The enhanced greenhouse effect is caused by human activity including burning fossil fuels, intensive agriculture, deforestation. • Content: The natural greenhouse effect (GHE) is due to the gasses in our admosphare. The greenhouse gases include: • Content: The natural greenhouse effect (GHE) is due to the gasses in our admosphare. The greenhouse gases include: • Content: Human causes of climate change: Burning fossil fuels: Burned for eleactricity and transport (CO ₂). Deforestation: Less trees to absorb and store CO ₂ . Agriculture: Causes gases like methane. Physical causes of climate change: Orbital changes: Earth orbiting the sun can emit solar flares which can send more radiation to Earth Volcanic eruptions: Volcanoes can release ash which blocks light and reflects back into space making it cooler. Coestions: 1. What is an acre? 2. State 4 greenhouse gases 7. What is the greenhouse effect? 6. State 4 greenhouse gases 7. What is the enhanced greenhouse 2. What is climate change? 9. Deforestation: 4. Greenhouse effect waths the sun can emit solar flares which blocks light and reflects back in			to natural or human activity.		
gases that humans have released into the earth's atmosphere. Content:	and seats 83,000 people.	Additional heat retained due to the	Orbital changes: The path the earth	1. Storm surge	
Content: Environmental impacts: • The storm surge flooded large areas of the coast. • Coastal habitats were destroyed. • Taillion gallons of crude oil spilled. • 1.3m acres of woodland destroyed. • People boarded-up homes/used sheeting. • Poople boarded-up homes/used sheeting. • 90% of people left the city. • 10,000 people (who were too poor to evacuate) took refuge in the Superdome. • Emergency services overwhelmed. Long term response: • 220 miles of flood walls & levees strengthened or replaced to lower the chances of severe flooding. Questions: 1. What is the greenhouse gases in our atmosphere. The greenhouse effect (GHE) is due to the gasses in our atmosphere. The greenhouse gases include: • Carbon Dioxide • Carbon Dioxide • Nitrous Oxide • Nitrous Oxide • Water vapour The enhanced greenhouse effect is caused by human activity including burning fossil fuels: Burned for electricity and transport (CO ₂). Deforestation: Less trees to absorb and store CO ₂ . Agriculture: Causes gases like methane. Physical causes of climate change: Orbital changes: Earth orbiting the sun changes slightly taking us closer or further away from the sun. Sunspots: The sun can emit solar flares which blocks light and reflects back into space making if cooler. Volcanic eruptions: Volcanoes can release ash which blocks light and reflects back into space making if cooler. S. What is the greenhouse effect? 6. State 4 greenhouse gases 7. What is the enhanced greenhouse 2. State 4 environmental impacts 7. What is the enhanced greenhouse		increased amounts of greenhouse			
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		effect?	3. State 3 human causes		
4. State a long-term response 8. Draw a diagram of the enhanced 4. State 3 physical causes 10. Agriculture			• •	10. Agriculture	
greenhouse effect 5. Copy out the 10 key words 3 times		greenhouse effect	5. Copy out the 10 key words 3 times		





Week 9 – Friday 1:	5 th November 2024	Week 10 – Friday 22 nd November 2024		
Lesson 13 – Impacts of climate change	Lesson 14 – Climate change in Bangladesh			
Key Terms: Wildfires: A large, destructive fire that spreads quickly over woodland or brush.	Key Terms: Bangladesh: An LIC in the northeastern part of South Asia. Has a GNI of \$6,840 (UK is \$49,420).	Key Terms: Mitigation: To reduce or stop climate change itself by stopping GHG being released into the atmosphere.	TASK: For the 10 key words below, either write each one out 3 times using look, cover, write, check, OR define each one.	
Thermal expansion: Warming ocean water expands and takes up more space therefore sea levels rise.	Mangrove: A low growing trees/ shrubs that grow in warm shallow, calm seas.	Adaptation: Changing what we do to cope with climate change rather than stopping it. Actions taken by people	Thermal expansion Wildfires	
Content: Location: California: Wildfires are becoming more frequent.	Content: Physical Causes: Low lying and has 3 major rivers that	Content: What can be done in Bangladesh? • People could leave the coast and	3. Tuvalu	
Location: Tuvalu, South Pacific: small islands are a 1m above sea level. Thermal expansion is causing the sea to rise. Fields are flooded, and the fish	flood naturally • 80% of the land is 1-2m above sea level. Human Causes	 move to the city. The government could make an agreement for Bhutan to plant trees which may absorb the precipitation 	4. Bangladesh	
are gone. Location: Switzerland, Alps: Ski season is short and unpredictable due to	 Removed mangroves and these are a natural sea defence. Glacial melt is increasing due to 	and melt water.What can the rest of the world do?Stop buying exotic foods. The	5. Mangrove	
snow melt or lack of snow. Location: UK Somerset Levels: The River Parrett floods most years, but it is	climate change causing river levels to rise. Impacts	transport releases CO ² . • People could walk, cycle, and use public transport rather than using	6. Dhaka	
getting worse and happening more often. Location: Pakistan: Rain is becoming	 People are losing farmland, so they change jobs to fishermen. People migrate to Dhaka away 	their car.Charities, people, and governments could plant more trees.	7. Bay of Bengal	
unpredictable. 1739 deaths in 2022, the crops are flooded.	from the coast.	 Governments could use renewable energy to reduce CO₂. 	8. Mitigation	
Questions: 1. What is thermal expansion? 2. What is the impact in Tuvalu? 3. What is the impact in the Alps? 4. What is the impact in the UK?	5. Where is Bangladesh?6. State 3 physical causes7. State 3 human causes8. State 2 impacts on Bangladesh	Questions: 1. What is mitigation? 2. What is adaptation? 3. What can Bangladesh do? 4. What can the rest of the world can do? 5. Copy out the 10 key words 3 times	9. Adaptation10. Government	

Week 1		Week 2	
Lesson 1- Charles I and reasons for his unpopularity	Lesson 2- Why did Charles I and Parliament argue between 1629-40?	Lesson 3- What were the short- term causes of the Civil War?	Practice
Key Phrases Civil War- A war between people from the same country Divine Right of Kings- belief that he had been appointed by God to be king.	Key Phrases Cause- Reason why something happens Parliament (17th century)- a group of people that advise the monarch Long-Term Cause- Things that have been going on for a long time before an event.	Key Phrases Short-Term Cause- things that happen immediately before an event that help cause it Puritans- strict Protestants who disagreed with the reforms that Archbishop Laud	Task: Create a timeline of these key events that led to the English Civil War. You need to put them in chronological order. Charles closes Parliament for 11 years-
Content Charles I was the King of England from 1625-49. His royal line was the Stuarts, who were originally kings of Scotland. He married a Catholic French princess called Henrietta Maria and this caused many of his subjects to suspect that he was a secret protestant. He was executed in 1649 and reason given for his punishment was treason.	Content Charles I believed he had been appointed by God to rule- the Divine Right of Kings. He did not agree with Parliament questioning his decisions. Parliament had to agree to any taxes and Charles needed money. This gave Parliament power over Charles. Many arguments were also over religion. Puritans hated Charles because they thought he might be bringing Catholicism back.	Content In 1640, Parliament complained to Charles e.g. Parliament should be called every 3 years. Charles agreed to some things like ending Ship Money (an unpopular tax). Parliament then demanded more power with a list of MORE complaints called the Grand Remonstrance. In 1642, Parliament took control of the army. This caused 200 MPs to leave Parliament and join Charles' side.	Charles I declared war on Parliamentarians. English Civil War begins - 1642 Charles raises taxes without the permission of Parliament - 1626 Charles I becomes King and marries Catholic princess Henrietta Maria - 1625
Read Charles' early reign https://www.bbc.co.uk/bites ize/articles/zxxgg7h#zffddp3 1. When did Charles become King? 2. Why was his marriage to Henrietta Maria concerning? 3. What was the Divine Right of Kings? 4. Who led a failed naval battle against the Spanish at Cadiz?	Read 1629-1640 https://www.bbc.co.uk/bites ize/articles/zxxgg7h#z9dssk7 1. What was Ship Money? 2. Why was appointing Archbishop Laud such an unpopular decision? 3. How did Charles anger Scottish Puritans?	Read 1640-1645 https://www.bbc.co.uk/bitesi ze/articles/zxxgg7h#zdqvvwx 1. What was the Grand Remonstrance? 2. How many MPs did Charles try to arrest? 3. Why did Charles declare war on Parliament in August 1642?	Charles I agrees to some changes e.g. calling Parliament every 3 years-1641 Parliament took control of the army- 1642

Week 3		Week 4	
Lesson 4- What were the key factors that caused the English Civil War?	Lesson 5- Mid-Cycle Assessment	Lesson 6- Overview of the English Civil War	Practice
Key Phrases Religious- relating to religion Political- relating to power and government Economic- relating to money	Key Phrases Point Sentence- Answers the question directly Evidence- Includes historical detail Explain- Explain how the evidence supports your point	Key Phrases Gentry- name for landowners Royalists or Cavaliers- soldiers who fought for the King Parliamentarians or Roundheads- soldiers who fought for Parliament	Cover and practice the spelling of the following words or write out their definitions: 1. Gentry
Content Religious Reason- Many people suspected Charles of bringing back Catholicism. Archbishop Laud introduced laws that made the Church more Catholic. Political- Parliament wanted more power. They seized control of the army to prevent Charles from closing Parliament again Economic- Charles was bad with money and introduced unpopular taxes like the ship tax.	There are three main factors when it comes to the outbreak of English Civil War. They are Religion, Economics and Politics (power). Some of the causes are long-term because they were bubbling under the surface for years (e.g. Puritans despising Charles for his Catholic-style changes in the Church) but others are short-term because they trigger the war (e.g. Parliament taking control of the army)	Content Parliament slowly takes over the majority of England by winning a succession of Battles. At the beginning of the war, the Royalists were much better but Charles wasn't a good military leader. Parliament did not have a proper army at the start but Oliver Cromwell emerged as a very good military leader. He formed and trained the New Model Army which was disciplined and well equipped.	 Royalists Cavaliers Parliamentarians Roundheads Political Economic Religious
Play the History Detectives Game and answer the question below https://shorturl.at/uwZCs 1. How did Scottish Puritans view the Church of England? 2. What was the relationship like between Archbishop Laud and Parliament?	Watch the video Answer the questions https://www.bbc.co.uk/bites ize/articles/zxxgg7h#z9dssk7 1. What is PEE paragraph? 2. Which part of a PEE paragraph was the longest in the example? Point, Evidence or Explain?	Watch the video Answer the questions https://www.youtube.com/ watch?v=UO5-vLVJG5Q 1. Who did the roundheads fight for? 2. Why do people say they were boring? 3. Who did the cavaliers support? 4. What does Cromwell say he will do? 31	9. Short-term Cause 10. Long-term Cause

Week 5		Week 6		
Lesson 7- Is the Battle of Bovey Heath significant?	Lesson 8- Did the English support the execution of Charles I?	Lesson 9- Was England Better off under Oliver Cromwell?		Practice
Key Phrases and Content Significance- what is important from the past Novelty- Is it new or original? Applicability- It's similar to something happening right now	Key Phrases Regicide- the act of killing a King Treason- The crime of being disloyal to the Crown	from your own Democracy- allows	efs that are different	Create 5 multiple choice questions. One for each of the topics below: 1. Long-term Causes of the
 Memory- They have been remembered in a particular way Effect- Have a lot of people been effected by the event? A skirmish (a small fight) at Bovey Tracey saw Cavaliers escape Roundheads by distracting them with coins. The next day, Cromwell's forces won at Bovey Heath, capturing horses, soldiers, and cattle. 	In 1649, King Charles I was put on trial for treason. He was found guilty and sentenced to death. There should have been 135 commissioners involved in the trial, but only 68 actually turned up. Following Charles' execution, there was an 11-year period when England was ruled without a monarch. Oliver Cromwell led England from 1653, taking the title of 'Lord Protector'.	for good. England districts, each run general-the army wallowed Puritan Ch to make decisions to people - such as baclosing theatres. H	vas in control. He iristians in Parliament that angered English anning Christmas and e gave people the what they like. He duce bribery and	 English Civil War Short-term Causes of the English Civil War Roundheads and Cavaliers Battle of Bovey Heath
Write down information about two important locations in Bovey Tracey from the Battle of Bovey Heath using this website. https://boveytraceyhistory.org.uk/civil-war/	Read The Execution Answer the questions https://www.bbc.co.uk/ bitesize/articles/z3jyyd m#zs8nn9q 1. When was Charles' execution? 2. Where did it take place? 3. Who ruled after Charles? 4. What title did Cromwell give himself? 3	Sort the facts in the content box into a table like this: England was better off England was worse off		5. Cromwell's reign

Week 7		Week 8	
Lesson 10- Cromwell's actions in Ireland	Lesson 11- Why was the monarchy restored?	Lesson 12- Introduction to the Industrial Revolution	Practice
Key Phrases Provenance- a source's background- its Nature, Origin and Purpose (NOP) Objective opinion- not influenced by personal feelings but based on facts.	Key Phrases Monarchy- King or Queen Lord Protector- Name for the ruler in the absence of the monarchy	Key Phrases Industrial Revolution- A time of rapid change between 1750-1900 in the way that things are manufactured (made), going from being hand made at home to using machines in factories.	Create a timeline of these key events of the Industrial Revolution. You need to put them in chronological order. 1781- James Watt patents an improved steam engine making it useful as a
Content English rulers colonized Ireland with Protestant settlers, causing rebellion and worsening relations, leading to Cromwell's military intervention in 1649. In September 1649, Cromwell's army attacked Drogheda. Cromwell's forces broke through, killing armed men and Catholic priests, and possibly civilians. Around 3,500 people died, and many survivors were enslaved. This brutality fuelled long-lasting Irish resentment toward the English.	Content Cromwell died in 1658. He was replaced by his son. Parliament did not believe Richard Cromwell could run the country so they refused to follow him. Instead Parliament invited Charles' son, Charles II, back from the Netherlands to be made King. This was known as The Restoration because the monarchy had been restored.	Content The Industrial Revolution, which took place between 1750 - 1900, was a period of great change in Britain. There were huge technological advances which had an impact on every aspect of life. These technological advances were happening while the British Empire was growing. Not all of these changes were positive. The population increased by 600%.	power source in factories 1750- The Industrial Revolution begins in Great Britain 1876- Alexander Graham Bell invents the telephone 1811- The Luddites attack factories in Great Britain smashing machines in a protest against industry 1764- James Hargreaves invents the
Watch the video Answer the question https://www.youtube.c om/watch?v=uonEk0Eu VGU 1. Write down 4 brutal things Cromwell does or orders his soldiers to do	Read the section on Cromwell's death Answer the questions https://www.bbc.co.uk/ bitesize/articles/zg6ccm n#zf733j6 1. Who replaced Oliver Cromwell when he died? 2. What was the Restoration? 3. What was Charles II like as a ruler?	Watch the video Answer the questions https://www.bbc.co.uk/bitesize/topics/z m7qtfr/articles/z6kg3j6#zwdqjsg 1. In which country did the Industrial Revolution start? 2. The invention of what type of engine sparked the Revolution? 3. How much did the population grow?	spinning jenny allowing a worker to produce multiple spools of thread at the same time 1712- The first steam engine is invented by Thomas Newcomen

Week 9		Week 10	
Lesson 13- What was factory life like?	Lesson 14- Child Labour	Lesson 15- What were living conditions like?	Practice
Key Phrases Mill- A factory Labour- work (particularly physical work)	Key Phrases Child Labourer- A child who completes hard physical labour in return for a small wage	Key Phrases Overcrowding - having too many people in one place Sanitation- process of keeping places hygienic e.g. sewage systems	Cover and practice the spelling of the following words or write out their definitions: 1. Industrial Revolution
In the 1800s, as factories spread across the North, many offered job opportunities to women and children. Working conditions were dangerous. Worker's hearing was damaged from the noise of the machines and small fibres from the cotton got into the air and gave people breathing difficulties. Wages depended on who you were. Men were paid the most, then women and then children. Most worked 16 hours a day, 6 days a week.	Content Children were used in many industries. In mining, children were used to open and close doors and had to work in the pitch black. In factories, children had to clean the machines while there were still running- this was very dangerous, many lost a limb. On farms, children often carried heavy loads and were treated very badly if they were orphans. Children also worked with chimney sweeps and were sent up chimney's to clean them.	Content Working-class housing was crowded together near the factories and other places of work. The conditions varied, but much accommodation was extremely unsanitary and unhealthy. Workers' diets were poor as they could not afford much fresh or nutritious food. In some industrial cities like Leeds, the average age of death could be as low as 14.	 Mill Child Labourer Sanitation Overcrowding Child Labourer Monarchy Long-term cause
Play the History detectives game Answer the questions https://shorturl.at/iJ9xh 1. Why were children dunked in water? 2. What does Edward Baines say about Children dying young in the mill?	Watch the video Answer the questions https://www.youtube.com/ watch?v=1PmHBqtLFss 1. Where were the remains of 13 children found? 2. How young could children be employed from? 3. What sort of accidents happened? 4. What was cotton lung?	Watch the video Answer the questions https://www.youtube.com/watc h?v=FDZe512gPeE 1. What did poor people share? 2. Where did the sewage go? 3. If they couldn't pay rent, where did people go?	9. Short-term cause 10. Provenance

Week 11		Week 12		
''		Lesson 15- Was the Industrial Revolution a good thing?	Practice	
Key Phrases Metropolitan Police- The police that covered London Whitechapel- an area of London known for its crime and poverty	Key Phrases Politician- a member of government Representative- aiming to represent something	Key Phrases Legislation- Laws Trade Unions- people from different trades who want to keep and improve their jobs and their working and living condition	Create 5 multiple choice questions. One for each of the topics below: 1. Living Conditions	
Content Between August and November 1888, five women were murdered in Whitechapel: Mary Ann 'Polly' Nichols, Annie Chapman, Elizabeth Stride, Catherine Eddowes and Mary Kelly. Their murderer became known as Jack the Ripper and was never caught. The Metropolitan Police in Whitechapel were criticised for failing to capture the murderer.	Content In 1780, only 3% of the population were allowed to vote. Some people lived in 'Rotten Boroughs' where only a few people voted but were represented by a whole MP (or two!) at Parliament. This gave those voters more power than they should have. It wasn't representative.	Content Steam engines had led to railways which made transportation easier. By 1866, 1300 miles of sewers had been built by Joseph Bazalgette. After 1901, no child under 12 was allowed to work. From 1870, the Education Act stated that children between 5 and 13 had to attend school. In 1861, Louis Pasteur discovered that germs cause disease.	 Child Labour Factory Conditions Policing/ Jack the Ripper Inventions in the Industrial Revolution 	
Read Policing in Whitechapel Answer the questions https://www.bbc.co.uk/bitesi ze/guides/zrx94xs/revision/6 1. What was H Division? 2. What was the role of the beat constable? 3. What does CID stand for?	Watch the video Answer the questions https://www.bbc.co.uk/bitesize/g uides/zmgxsbk/revision/4 1. What was the average life expectancy in Manchester in 1842? 2. How much longer could a rich person expect to live? 3. Who did the middle class blame for the poor conditions?	Each of the sentences in the content box is a statement about something that was achieved during the Industrial Revolution. Write the statements out the order of their importance (your opinion.) Put the most important one first.		



Life Skills Knowledge Organiser



Lesson 1 and 2- Identity and Gender	Lesson 3 and 4 – Challenging stereotypes, prejudice and discrimination
Places to access support	Places to access support
https://www.childline.org.uk/info-advice/your-feelings/sexual-identity/gender-	https://www.mind.org.uk/for-young-people/your-rights/understanding-my-rights/
identity/	
Content:	Content:
Gender Identity	Stereotype- A generalised belief about a particular category of people. It is an
Gender identity is a way to describe how you feel about your gender. You might identify your gender as a boy or a girl or something	expectation that people might have about every person of a particular group.
different. This is different from your sex, which is related to your physical body and	Discrimination- The unjust or prejudicial treatment of different categories of
biology.	people, especially on the grounds of race, age, sex, or disability.
LGBTQ+ Lesbian, Gay, Bisexual, Trans, Queer / Questioning , + = Other	Prejudice- A preconceived opinion that is not based on reason or actual experience
Biological Sex- the physical anatomy and gendered hormones one is born with.	The Equality Act (2010) provides a legal framework to protect the rights of individuals and advance equality of opportunity for all. It provides Britain with a
Sexuality - A persons' sexual preference or orientation. Who they are attracted to.	discrimination law which protects individuals from unfair treatment and promotes a fair and more equal society.
Transgender- A person whose gender identity is the binary opposite of their	
biological sex, who may undergo medical treatments to change their biological sex	It makes all people equal in regard to sex, age, race, sexuality, religion, disability (this means the same laws apply to everyone).
Questions	Questions
1. What is gender identity?	1. What is a stereotype?
2. What does the Q stand for in LGBTQ+?	2. Give an example of someone who might be stereotyped.
3. What is meant by 'biological sex'?	3. Who might experience discrimination?
4. What does sexuality mean?	4. What is meant by prejudice?
5. Where can you seek support if you are struggling with gender identity?	5. What is the Equality Act?



Life Skills Knowledge Organiser



Lesson 5 and 6– Relationships and Managing Conflict	Lesson 7 and 8 – Consent and Setting Boundaries
Places to access support	Places to access support
https://www.brook.org.uk/topics/relationships/	https://www.healthforteens.co.uk/sexual-health/the-law-and-consenting-to-sex-just-the-facts-2/
Content:	Content:
Platonic Relationship- A friendship or relationship where there is no romantic,	
intimate or sexual feelings i.e Friends and colleagues.	Consent is:
	Freely given. It's not okay to pressure, trick, or threaten someone into saying yes.
Intimate Relationship- A relationship which can include a sexual attraction and	Reversible. It's okay to say yes and then change your mind — at any time!
sexual activity i.e boyfriend, girlfriend, married couples	Informed. You can only consent to something if you have all the facts.
	Enthusiastic. You should do stuff you WANT to do, not things people expect you to do.
Familial Relationship- A relationship with someone who has a blood, kinship or	If someone doesn't seem enthusiastic stop and check in.
legal tie to you i.e Parents, siblings etc.	Specific. Saying yes to one thing (like going to the bedroom) doesn't mean you're
	saying yes to other things (like having sex).
Conflict- a disagreement or argument	
	Personal boundaries are the limits and rules we set for ourselves within
Strategies for resolving conflict:	relationships.
Stay calm	
Listen to each other and take turns to talk	Personal Space is the physical space immediately surrounding someone, into which
Be willing to compromise	encroachment can feel threatening or uncomfortable
Don't bring up past issues	
Be honest with the other person	Assertiveness- having or showing a confident and forceful personality.
Be willing to move past the conflict Asking who are the arthur paragraph feelings.	
Acknowledge the other persons feelings Give each other space if peeded.	Self-awareness- having conscious knowledge of your own character and feelings
Give each other space if needed	•
Questions	Questions
1. What is a platonic relationship?	1. How should consent be given?
2. What does an intimate relationship mean?	2. Can consent be withdrawn at any time?
3. Give an example of a familial relationship	3. What is meant by someone's personal space?
4. Give two strategies to resolve conflict	4. Give an example of assertive language.
5. Who can you talk to in school about managing conflict between friends?	5. What does it mean to be 'self aware'?



Life Skills Knowledge Organiser



Lesson 9 and 10- Sharing Images and Sexting				Less	on 1:	L - Co	ntrac	eptio	n					
Places to access support https://www.healthforteens.co.uk/relationships/sexting/sexting-just-the-facts/	Places to access support https://www.brook.org.uk/resources/ https://www.nhs.uk/conditions/contraception/													
Content: Sexting- Sending sexually explicit photographs or messages via mobile phone. Digital Footprint- A person's digital footprint cannot be deleted and can be accessed at any time through a simple social media or search engine search. Taking, possessing or sharing a sexually explicit picture or video of someone under	Content: Sexual Consent- TI activity including p Contraception- Me sexual activity. Barrier methods: stop sexual fluids being transferred between partners. Only condoms protect against STIs and pregnancy.	enet	rative	and	oral s	ex.	·			_				
18 is against the law . A criminal caution or conviction for such an offence would result in being placed on the Sex Offenders Register .	Hormonal methods: hormones cestrogen and/or progestogen work to disrupt the process that leads to pregnancy.	Condoms	Internal or fen condoms	Diaphragms a	Combined pill	Progestogen-	Contraceptive	Contraceptive	Contraceptive	Contraceptive vaginal ring	Intrauterine space	Intrauterine d	Fertility aware methods	Steriüsation male b femaled
It doesn't matter if they gave you permission, someone else sent it to you, you've never met them before, you are under 18 too or it's a selfie. You and anyone else involved could be investigated by the police, and this could even affect your	Permanent Effectiveness (with correct use) Protects against STIs ® pregnancy	98°	<i>9</i> 5 ^x <i>✓</i>	92-99 ^x	99x	99*	99*	99x	99x 83	99x 83	99x 83	99x 83	75* &\$	99x 83
future education and employment. If you are over 18 and you send an image of yourself to someone who is also over	Use only when you have sex Use every day May help with heavy periods Lasts for months or years	× × ×	22 22 23	######################################	**	######################################	× ×	# # # # # # # # # # # # # # # # # # #	× ×	######################################	######################################	######################################	######################################	######################################
18, this is not a crime . However, you should consider the other consequences of sending and sharing images.	Widely available Doesn't Interrupt sex Hormone free	**	× × ×	\$3 \	× ×	%	× ×	8	× ×	3	83	4	83	₩ ₩
If someone is pressuring you to send a nude pic this is wrong. It's a form of abuse and can damage your confidence and self-worth.	Easy to hide Mistake proof LARC song acting reversible contraceptions	# # #	22	*	######################################	## ## ## ## ## ## ## ## ## ## ## ## ##	4	4	× ×	8 8	4	4	88	83
 Questions 1. What is sexting? 2. What is a digital footprint? 3. What could happen if you possess a sexually explicit picture of a person under 18? 4. If someone else sent you the picture could you still be convicted? 5. Is pressuring someone to send explicit images illegal? 	Questions 1. What is sexual cor 2. What is contracep 3. Which form of cor 4. Which form of cor 5.Where can you acc	ntion? ntrace ntrace	ption ption	is the	only		•		_			ted pr	egnan	ıcy?



Y8C1 Key Maths Knowledge

Your Maths Homework is to complete your Sparx

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

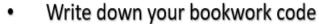
- Do Sparx on the days in the homework timetable
- · Compulsory Homework: You must do this part of your homework every week
- Optional/Target Homework: Do this to gain loads of XP and to improve your maths!

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:





- Read the question carefully
- Show all your workings
- Highlight/underline your final answer
- Tick if correct/cross if wrong





MATHS

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.

South West Mathematics



Your Maths Homework is to complete your Sparx

Item	Description
The multiplication rule of indices	$a^m \times a^n = a^{m+n}$ (Add the indices)
The division rule of indices	$a^m \div a^n = a^{m-n}$ (Subtract the indices)
The brackets rule of indices	$(a^m)^n = a^{mn}$ (Multiply the indices)
'Expand' or 'Multiply out'	Means 'to rewrite an expression without brackets'
'Factorise'	Means 'to write an expression with brackets'
Area of a circle	$area = \pi \times radius^2$
Circumference of a circle	$circumference = \pi imes diameter$
Sector area	$area = \frac{angle}{360} \times \pi \times radius^2$
Arc length	$arc\ length = \frac{angle}{360} \times \pi \times diameter$
Average	The mean , median or mode . They measure the centre of a group of data.
Spread	The range . It measures how spread out a group of data is.
Estimating the mean from grouped data	Find the total of <i>midpoint</i> × <i>frequency</i>
	Divide this total by the total of the frequencies

	Week 1	Week 2	Week 3	Week 4	Week 5
	KEYBOARD MUSIC	KEYBOARD MUSIC	KEYBOARD MUSIC	KEYBOARD MUSIC	KEYBOARD MUSIC
Year 8 Music – Arranging Music – Cycle 1	THE BAROQUE PERIOD The Baroque period was an important time in the history of the world. The dates of this musical period are 1600 – 1750. Galileo, Kepler and Newton were discovering new ways to explain the universe. In music, art, architecture, and fashion, fancy decoration and ornamentation became the rule. Both men and women wore wigs and coats with lace. CHARACTERISTICS Famous composers - J. S. Bach, Vivaldi, Handel, Monteverdi. Instruments used - Violin, Viola, Cello, Bass, Flute, Oboe, Bassoon, Trumpet, Horn, Harpsichord. Musical features - busy, ornate melodies, instruments play different melodies at the same time creating a POLYPHONIC texture. Pieces were often written for people to dance to.	PACHELBEL'S CANON Facts about Pachelbel's Canon Composed around 1690 Originally in the key of D major Has a repeating sequence of 8 chords Each time the chord sequence repeats a different melody is introduced Many modern pop songs have used the same chord sequence	HOW TO BUILD A CHORD Chords are created by taking the 1st, 3rd and 5th notes from a scale: C major scale - C D E F G A B C major chord - C E G C minor scale - C D Eb F G Ab Bb C minor chord - C Eb G When you play the three notes together, you have a chord. The difference between a major and minor chord is the middle note of the chord. In a minor chord it is a semitone lower.	ELEMENTS OF MUSIC Pitch How high or low a note is. Tempo The speed of the music. Texture How many instruments / voices are playing – layers. Timbre The sounds or instruments used in a piece of music. Dynamics How loud or quiet a piece of music is. Tonality What key are we in? Major/Minor Duration How long a sound lasts. Structure How many different sections are there in a piece of music Silence No sound! – As important as sound.	MELODY Melodies have different characters. Some are conjunct, some are disjunct. Conjunct = move by small steps between notes: Disjunct = move by leaps between notes:

	Week 6	Week 7	Week 8	Week 9	Week 10
	VARIATION FORM				
Year 8 Music – Arranging Music – Cycle 1					



Year 8 Cycle 1 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
Major Bones	Major Bones	Major Muscles	Types of Muscle Contraction	Muscles working in pairs	Types of movement
Can you label the major bones? Cranium Vertebrae Scapula Humerus Radius Ulna Pelvis Femur Tibia Fibula Patella	The functions of the Skeleton Remember the acronym: Scary Skeletons Make Many People Petrified Support Bones keep us upright and support muscles and organs. Shape Skeleton gives us our height and build. Mineral Storage Bones store minerals such as calcium and phosphorus. Movement Muscles attach to and pull on bones to produce movement. Bones act as levers. Protection Bones protect vital organs – e.g. Cranium protects brain, ribs protect heart and lungs. Production of red blood cells Inner marrow of bones produces red and white blood cells. Red cells carry oxygen, white cells fight infections.	Can you label the major Muscles? I latissimus dorsi deltoid pectorals biceps triceps abdominals hip flexors gluteus maximus hamstring quadriceps group gastrocnemius tibialis anterior	Isotonic Contraction Muscle changes shape and creates movement. There are 2 types; concentric & eccentric Concentric Contraction Muscle contracts and shortens Eccentric Contracts and lengthens - only used in the downwards phase of a movement. Isometric Contraction Muscle contracts but the length of the muscle does not change. There is no movement e.g. holding a balance	Antagonist & Agonist Muscle are arranged in antagonistic pairs. One muscle contracts & shortens (Agonist) and a partner muscle relaxes and lengthens (Antagonist) to create a movement. Agonist Examples in the body Biceps & Triceps Quadriceps & Hamstrings Hip flexors & Gluteus Maximus Tibialis Anterior & Gastrocnemius	Flexion Decreasing the angle at a joint (bending) Extension Increasing the angle at a joint (straightening) Abduction Taking a limb away from the body (abduct) Adduction Bringing a limb back towards the body (Add) Rotation Turning a limb along its axis (circular) Plantar flexion Pointing toes (P for Point) Dorsi flexion Toes towards the nose

Week 1	Week 2	Week 3	Week 4	
Lesson 1 – What Is The Problem Of Evil?	Lesson 2 – Is Suffering Necessary?	Lesson 3 – Responses to The Problem Of Evil	Lesson 4 – Who Was The Buddha?	
Key Terms:	Key Terms:	Key Terms:	Key Terms:	
Evil: Morally bad or cruel. Believed	Suffering: Physical or mental pain	Satan: The Devil; a powerful evil	Buddha: The holy man on whose life	
by some to be contrary to the will of	that a person is feeling.	being, believed by some to be the	and teachings Buddhism is based.	
God.		chief opponent of God.		
	Free Will: The ability to choose		Enlightenment: The state of	
Natural Evil: Suffering that humans	between different possible courses	Punishment: A penalty or sanction	understanding something; the	
have no control over, which occurs	of action.	given for a crime or offence.	highest spiritual state that can be	
naturally. E.g. Natural disasters.			achieved.	
	Necessary: Absolutely essential;	\$		
Moral Evil: Acts of humans	needed to achieve a particular			
considered to be morally wrong.	result.	4		
E.g. Murder.				
		All books		
Content:	Content:	Content:	Content:	
The Problem of Evil is the	Suffering is a problem for everyone.	Some religious people believe much	Buddhism started with Siddhartha	
philosophical question of how to	We all suffer, no matter how lucky	of the suffering in this world is	Gautama who came to be known as	
reconcile the existence of evil with	we are. Human beings experience	caused by humans misusing God's	the Buddha.	
an omnipotent, omniscient and	pain, illness, loss and finally death.	gift of free will, leading to wars,	He was born into a life of luxury as a	
omnibenevolent God.	As human beings have free will,	suffering and death of innocent	Prince and shielded from seeing any	
The Greek philosopher, Epicurus,	they have the ability to choose their	people. Suffering is seen as a	pain or suffering.	
claimed that the existence of evil	actions. For many Christians,	necessary risk that comes with	Meditation is the way in which the	
proved there is no God.	freedom of choice can lead to evil.	designing people rather than robots	Buddha gained enlightenment.	
Questions:	Questions:	Questions:	Questions:	
1. What is evil?	1. What is suffering?	What reasons do some	1. What was the Buddha's	
2. What is the difference	2. Is suffering necessary	religious believers give for	upbringing like?	
between natural and moral	according to some religious	humans, rather than God	2. What four sights did he see	
evil?	believers?	being responsible for evil?	when he left the Palace?	
3. What is the Problem of Evil?	3. What is Free Will and how	2. Why does God allow	3. How did he achieve	
	can it justify suffering?	suffering?	enlightenment?	

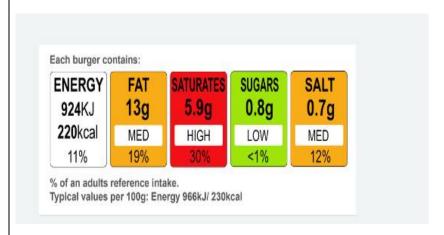
Week 5	Week 6	Week 7	Week 8
Lesson 5 – What Are Dhamma & Dukkha?	Lesson 6 – What Is Dependent Arising?	Lesson 7 – What Are The 3 Marks Of Existence?	Lesson 8 – What Are The 4 Noble Truths?
Key Terms:	Key Terms:	Key Terms:	Key terms:
Dhamma: Buddhist doctrine; often	Dependent Arising: The Buddhist	Anicca: Instability or a lack of	Four Noble Truths: Four of the most
interpreted to mean the teachings	idea of reality; everything arises and	permanence.	important elements of the Buddhist
of the Buddha.	is dependent on something else to		teaching.
	exist.	Anatta: No soul; people do and can	
Dukkha: Suffering; life as		change in life.	Noble Eightfold Path: The path to
unsatisfactory.			be followed by a Buddhist; the
			Middle Way
Content:	Content:	Content:	Content:
Rather than just physical pain,	Dependent Arising is a belief that is	The 3 Marks of Existence are	If you are ill and go to a Doctor, you
Dukkha refers to the unsatisfactory	essential in fully understanding the	sometimes known as the 3	want to know what is wrong, what
nature of the whole of life.	Buddha's Dharma. It is the belief	Universal Truths. They are Anicca,	has caused your illness, what will
Buddhists believe that life is	that everything that is in existence	Dukkha and Anatta.	cure it and how to get treatment.
unsatisfactory because of greed and	exists because other things are in	Anicca is concerned with how	The Buddha's teaching can be set
selfishness.	existence. Therefore, everything is	resilient a Buddhist is.	out in the same way, as a cure for
Buddhists believe that the things	interconnected and everything	Dukkha is belief in 3 types of	the world's illness:
the Buddha taught (Dharma) have	affects everyone.	suffering.	1. All life involves suffering.
always existed. They believe that	Dependent Arising may influence	Anatta is the belief that there is no	2. The origin of suffering is craving.
the Buddha was the first person to	the way a Buddhist behaves and	soul but energy can be reborn.	3. If craving ceases, suffering will
be able to understand the teachings	have an impact on their moral		also cease.
fully. He was then able to pass them	conduct.		4. The Middle Way.
onto other people.			
Questions:	Questions:	Questions:	Questions:
 What are Dhamma and 	 What is Dependent Arising? 	1. What are the 3 Marks of	 What are the Four Noble
Dukkha?	2. How could the concept of	Existence?	Truths?
2. How do Buddhists use	Dependent Arising help to	2. How could the 3 Marks of	2. How can Dukkha be
Dhamma to help them to	prevent or stop suffering?	Existence lead to Buddhists	overcome according to the
overcome Dukkha?		accepting the idea of	Four Noble Truths?
		suffering as part of life?	

Week 9	Week 10	Week 11	Week 12
Lesson 9 – What Is Karma?	Lesson 10 – Assessment Preparation	Lesson 11 – End of Cycle Assessment	Lesson 12 – Assessment Repair Work
Key Terms:			
Karma: 'Action.' All actions have			
consequences.			
Samsara: The cycle of birth, life,			
death and rebirth.			
Nirvana: The ultimate goal of			
Buddhists, involving breaking free			
from the cycle of Samsara.			
Content:			
Buddhists believe that the ultimate			
goal is to reach Nirvana. This is not			
really a place but a state of being.			
Buddhists believe that we are			
trapped on a wheel of life. They			
believe that people will be reborn			
many times in order to have the			
opportunity to reach Nirvana, which			
is freedom from suffering.			
Buddhists believe that the rebirths			
that arise are a result of karma.			
Questions:			
1. What is Karma?			
2. How does the idea of Karma			
link to Buddhist ideas of			
what happens after death?			

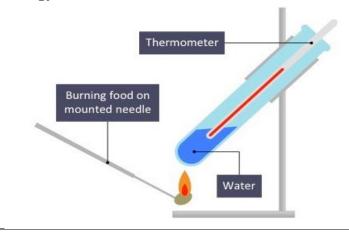
Lesson 1 Nutrients				
Diet – What you Food is needed 1) Energy 2) Growth 8 3) Health There are 7 dinutrients	for: & Repair	Foods can be tested to identify which nutrients they contain 1. Add iodine to a sample of the food. 2. Observe the colour Starch present the colour	On average, women should have around 2,000 calories a day and men should have around 2,500 calories a day. We all need different amounts of energy (or calories) from food to be a healthy weight. How much you need depends on lots of things, including how active you are.	
Name of nutrient	Function	change. lodine vater in it. Fat not present (cloudy present (cloudy present (cloudy present (cloudy present present (cloudy present present (cloudy present present present (cloudy present pr	Recommended Daily Nutritional Requirements	
Carbohydrate	Energy	1. Add Tests	for Different Age Groups	
Vitamins	Health	Benedict's (Sugar) Profision 1. Add Biuret	Category Age (years) (g) (g) (Real) (mg) (mg)	
Fats (lipids)	Energy & warmth	sample of the food.	Children 2-3 16.7 27 1060 600 9	
Fibre	Helps food move	test tube. of the	Children 4-6 20.1 25 1350 600 13	
	through digestive	3. Observe the colour Giucos Lots of Burt States 2. Observe	Children 7-9 29.5 30 1690 600 16	
	system	change. Beteich e not glucose present Protein colour	Boys 10-12 39.9 35 2190 800 21 Boys 13-15 54.3 45 2750 800 32	
Protein	Growth & repair	Protein change.	Boys 16-17 61.5 50 3020 800 28	
Water	Helps keep cells hydrated	A little not present present	Adult (males) Above 25 60 2320 600 17	
	•	1		

Lesson 4 Comparing Energy in Foods

Food packaging gives us useful information about the food we are going to eat



We can compare energy content of a food by measuring how much heat energy is released when we burn it



Lesson 5 Unhealthy Diets



We need to eat a healthy balanced diet which contains the correct amounts of each of the food nutrients

Not eating enough of a nutrient means you have an unbalanced diet, and this can lead to a **deficiency.**

Obesity – if you take in more energy than you use, the excess energy is stored as fat.

Overtime, this can lead to a person being overweight or obese.

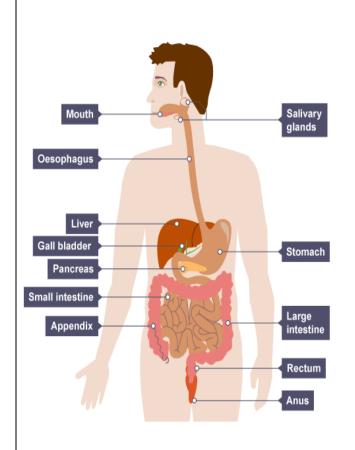
Anorexia - An eating disorder where energy output and energy input are imbalanced, energy input is lower than energy output. Symptoms – extreme weight loss, thin appearance, fatigue, insomnia, dehydration

Lessons 6 & 7 Digestion

Lessons 8 & 9 Digestive Enzymes and Bacteria

The digestive system breaks down food into tiny particles which are absorbed into the blood.

- These particles provide energy for the body to grow, repair itself and remain healthy.
- Food that cannot be broken down is released from the body as faeces (poo).



Organ	Function
Mouth	Chew food, break into smaller bits, start digestion off using enzymes in saliva.
Oesophagus	Tube connecting the mouth to stomach
Stomach	Sac where food is mixed with acidic juices to start digestion of proteins and kill microorganisms
Small intestine	Upper part is where digestion is completed. Lower part where nutrients are absorbed into the blood.
Large intestine	Water from food is removed here, and faeces made.

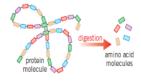
Enzymes are biological **catalysts**, they speed up the digestion of **nutrients**

- Each enzyme is specific to each nutrient
- The way the enzyme and nutrient bind with each other is called a lock and key model

Carbohydrase's break down carbohydrates into sugars

Proteases break down proteins into amino acids

Lipases breakdown fats into **fatty acids** and **glycerol**



Gut Flora – the "good bacteria" that live in your digestive system, useful for digestion, helpful for immunity and boosts vitamin levels.

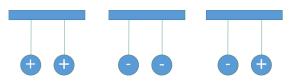
Answer these questions in full sentences in your homework book:

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
1. Define diet 2. List 3 reasons we need to eat food 3. How many nutrients are in our food? 4. Which 2 nutrients provide energy? 5. Why do we need to include protein in our diet?	1. Which reagent do we use to test for starch? 2. What colour does a food go if it is positive for starch? 3. How do we test for protein in a food? 4. Which food test involves using ethanol and water? 5. How do we test for sugar?	1. How many calories should a woman eat in a day? 2. How much protein does a 5-year-old child need per day? 3. How many Kilo calories should a 11-year-old boy eat? 4. Which age group needs to eat the most protein every day? 5. Which age group need the least amount of fat per day?	1. Where can we find information about the food we eat? 2. Look at something you have eaten today and write down how much energy, fat and sugar was contained in it.	1. What is a balanced diet? 2. What happens if you don't eat enough of a nutrient? 3. What is obesity? 4. What is anorexia? 5. Give 2 symptoms of anorexia
Lesson 6 1. What is the function of the digestive system? 2. Where does digestion start? 3. What happens to your food in the mouth? 4. How does food get from your mouth to your stomach? 5. What happens in the stomach?	Lesson 7 1. What happens in the upper part of the small intestine? 2. What happens to nutrients in the lower part of the Small intestine? 3. Where is water removed from food? 4. Where is faeces made? 5. What is faeces?	Lesson 8 1. What are enzymes? 2. How do they help digestion? 3. Which type of enzyme breaks down carbohydrates? 4. What do proteases do? 5. What do lipases break down?	Lesson 9 1. What are proteins broken down into? 2. Why do we digest carbohydrates? 3. Name the 2 products of fat digestion. 4. Are all bacteria bad? 5. Why do we need gut flora?	

Lesson 1 Static Electricity Static Electricity is when two objects are rubbed together, electrons are transferred from one object to the other. One object becomes positive and the other negative. Charge is a property of matter and can be positive or negative. Charged atoms are called ions. Charge of materials A material which loses electrons will become positively charged.

Like and unlike charges

negatively charged.



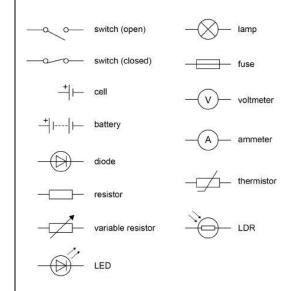
• A material which gains electrons will become

- · Like charges repel
- Unlike (opposite) charges attract

Van der Graaf generator is an electrostatic generator which uses a moving belt to accumulate electric charge.

Lesson 2 Circuit Symbols

Standard circuit diagram symbols



Rules for drawing simple circuits

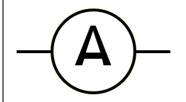
- All the wires in your circuit are straight lines.
- That the circuit is closed.

Lesson 3 Electric Current and pd

Current is the flow of charge – the movement of electrons. The electrons just keep going!

The **units** for current are **Amperes (A)** – sometimes just called **Amps**.

Current is measured with an ammeter and the diagram symbol is below.



Potential difference (p.d.) – sometimes called **voltage** is a measure of the energy carried around a circuit.

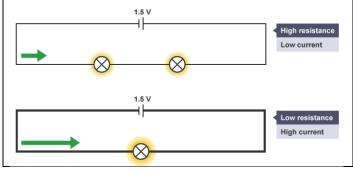
The higher the potential difference, the more energy that is carried by the electrons.

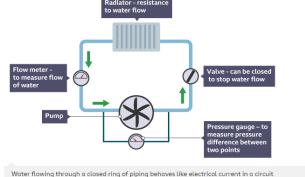
p.d. is measured with a voltmeter.

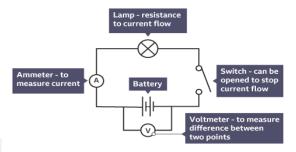
The units for potential difference are volts (V)

Lesson 5 Lesson 4 **Circuit Models** Resistance Resistance is a measure of how hard or easy it is for a Models can be used to help us understand electrical circuits. current to flow. One example is the water model of electricity, using a central heating system: Resistance is measured in Ohms (Ω) the pump acts like the cell or battery the pipes are like the wires Resistance happens the radiator is like a component, for example a lamp, transferring energy to the room because the ions that the water flow is like the electrical current. make up a metal are constantly vibrating. In many ways, electrical current behaves like water flowing through a closed ring of piping. The movement of the The more the electrons are slowed down the higher the water through the pipe is like the movement of electrons through a circuit. resistance The diagram shows a central heating system. This circuit diagram represents the water model The following factors effect resistance.

- As the length of the wire increases resistance increases
- As the thickness of the wire increases resistance decreases







Lesson 6 Lesson 7 Lesson 8 **Potential Difference in Series Circuits Current in Parallel Circuits Current in Series Circuits** You will Investigate how current changes in a series You can measure the potential difference across a cell circuit and how increasing the number of bulbs in or battery. A parallel circuit has more than a series circuit decreases the brightness of the bulbs. one loop – there is more than one If the two or more cells point in the same direction, the way for current to flow. more cells, the bigger the potential difference. 4.5 V 1.5 V If one part of the circuit breaks – for example, a bulb blows – the rest of the Current is the same everywhere in a series circuit circuit is still complete and a current will flow through that part. Each cell has a potential difference of 1.5 V, so three cells give 4.5 V The total current in a parallel circuit is equal to the sum of the currents in each branch. 6 Amps 3 Parallel circuits 2 Amps in each branch

Year 8 Science Electricity

Lesson 9 Potential Difference in Parallel Circuits	Lesson 10 Fruit Batteries		
Potential difference (p.d.) – sometimes called voltage is a measure of the energy carried around a circuit. Potential difference changes at different places in a parallel circuit.	If two metals are inserted into a fruit, a potential difference will flow.		
If you plot a graph of current against potential difference for a wire, you get a straight line. Source of the line is equal to the resistance of the wire	Metal 1 Metal 2		
Possible ways to set up fairy lights. Circuit A – if one bulb breaks all go out, but needs fewer wires/less wire Circuit B – needs more wires/more wire, but if one bulb breaks the others stay on	Chemical energy within the fruit is transferred by an electric current to the voltmeter. Any citrus fruit such as lemons, limes, oranges and grapefruit will work because they all contain citric acid for the electrolyte. You can investigate which metal makes the best fruit battery out of Copper, Aluminium, Iron and Zinc.		

Answer these questions in full sentences in your homework book:

Lesson	Lesson 1 Lesson 2		Lesson 3	Lesson 4	Lesson 5
1.	When does static electricity occur?	Draw and label the symbol	 Define current What are the u 	1. What is resistance in a circuit?	Why do we use models in science?
2. 3. 4. 5.	What are transferred as objects are rubbed together? What is an ion? What happens when an object gains electrons? What happens when an object loses electrons?	for a 1. Open switch 2. Cell 3. Lamp 4. Ammeter 5. Voltmeter	for current? 3. Which piece of equipment is u measure curre 4. What is potenti difference? 5. Which piece of equipment is u measure voltage	2. What unit is resistance measured in? sed to it? 3. Why does resistance happen? 4. What happens to resistance as a wire gets longer?	 In the water model, what does the pump represent? Which part of the water model represents the wires in a circuit? Which part of the water model represents a lamp in a circuit? Which part of the water model represents the electrical current in a circuit?
Lesson	6	Lesson 7	Lesson 8	Lesson 9	Lesson 10
1.	What unit do we	1. What unit do we	1. How does a pa		
2.	measure current in? Which piece of	measure potential difference in?	circuit differ fro series circuit?		potential difference in a fruit? 2. What type of energy is stored
	equipment do we use to measure current?	Which piece of equipment do we use to measure	What happens bulb breaks in part of a paralle	one around a parallel	in the fruit? 3. What type of energy is this transferred to?
3.	Draw a circuit diagram with one cell, one lamp, 3 wires and 1 ammeter	potential difference? 3. What happens to the potential difference of the bulbs as we	circuit? 3. How do you calculate the to current in a par	3. Why is a parallel circuit the best way to set up fairy lights	4. What type of acid do citrus fruits contain?5. Which metals can you use in a fruity battery?
4.	What happens to the brightness of the bulbs as we increase the number of bulbs?	increase the number of cells? 4. Where do we place a voltmeter in a circuit?	circuit?	4. What is the disadvantage of using a parallel circuit on fairy lights?	
5.	Does current change around a circuit?				

	sson 1 nbustion	Lesson 2 Fuels Investigation	Lesson 3 Fuel Pollutants			
Combustion is a chemica	Il reaction where a fuel reacts	Independent Variable:	When fuels are burned, a number of atmospheric			
with oxygen.		The one thing you change in an experiment.	pollutants are p	produced.		
			Pollutant	Source		
Fuel: A chemical energy when burned in oxygen	store that releases energy	Dependent Variable: The thing you measure in an experiment.	Carbon dioxide, CO ₂	Complete combustion of any fuel containing carbon atoms		
fuel + oxygen →	carbon dioxide + water	Control Variable:	Carbon	Incomplete combustion of any fuel		
, , 9 -		All of the things you keep the same in an experiment.	monoxide, CO	containing carbon atoms		
We can test for the products of combustion using chemical tests:		Mass is measured with a top pan balance and its units	Particulate carbon, C (soot)	Incomplete combustion of any fue containing carbon atoms		
		are grams (g) or kilograms (kg)	Unburned	Hydrocarbon fuel molecules which have		
TEST	Observation		hydrocarbons	not been oxidised at all		
	Turns cloudy in the	\	Sulfur dioxide, SO ₂	Combustion of a fossil fuel which contains sulfur impurities		
limewater	presence of carbon dioxide	(F)	Nitrogen oxides,	Oxidation of atmospheric nitrogen inside the engine of a car, lorry, etc		
cobalt chloride paper	Turns from blue to pink in the presence of water vapour	Temperature is measure with a thermometer and its	CO is toxic as it prevents oxygen binding with real blood cells			
Complete combustion of	sours in evenes owners	units are degrees Celsius (°C)	C (soot) irritates the lings and causes global dimming			
Complete combustion of Incomplete combustion oxygen.	occurs in a limited supply of		plants and anim	luce acid rain: Acid rain harms and kil nals, especially those that live in ments. It can also damage man-mado ues and buildings.		

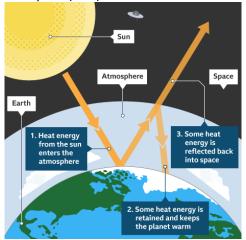
Lesson 4 Atmosphere & Greenhouse Effect

Greenhouse gases are gases in the atmosphere that act like a blanket around the Earth, trapping the heat that radiates from the surface of the Earth and preventing it from escaping back out into space.

This is called the greenhouse effect, and it's what keeps the Earth warm enough to sustain life. Without greenhouse gases, the Earth would be too cold at night for plants to grow or for animals to survive.

There are three main greenhouse gases:

- carbon dioxide (CO₂)
- methane (CH₄)
- water vapour (H₂O)



Lesson 5 Global Warming

As a result of human activities, the levels of greenhouse gases in the upper atmosphere are rising rapidly. These greenhouse gases are causing a lot more heat energy to be trapped in the atmosphere. As a result, the overall average temperature of the Earth is increasing. This is known as global warming.

How are greenhouse gases produced by humans:

- Burning Fossil Fuels
- Farming
- Deforestation

Global warming is leading to **climate change**, which is already having many serious impacts on our planet.

- More extreme weather events:
 - Heatwaves
 - Forest fires
 - Storms
 - Droughts
 - > Floods
- More unpredictable weather
- Sea level rise

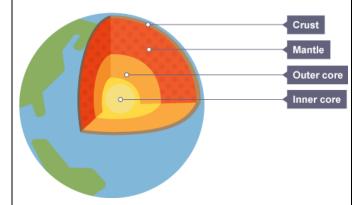
All of these factors are having an impact on habitats around the planet leading to the potential extinction of some plants and animals.

Lesson 6 Structure of the Earth

The Earth is a planet and is roughly the shape of a sphere. There are three layers that make up the Earth's structure.

The three layers, starting from the outside, are:

- the crust the rocky outer layer
- the mantle the semi-solid middle layer
- the core the innermost layer which is divided into an inner core and outer core



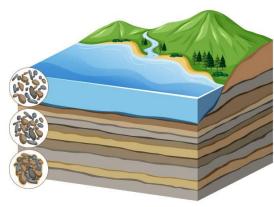
The crust is made of huge pieces of land called tectonic plates which fit together like a huge jigsaw. These plates move around very slowly. The tectonic plates only move a few centimetres each year.

Lesson 7 Sedimentary Rocks

The grains in sedimentary rocks are arranged in layers. The oldest layers are at the bottom and the youngest layers are at the top.

Chalk, limestone, shale, and sandstone are all examples of sedimentary rocks.

All these different sedimentary rocks are formed from the broken remains of other rocks that become joined together.



There are five processes that make a sedimentary rock:

- transport
- deposition
- sedimentation
- compaction
- cementation

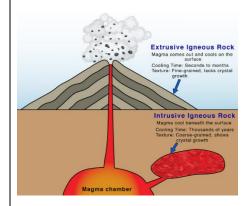
Lesson 8 Igneous Rocks

The inside of the Earth is so hot that rocks deep underground are often liquid.

Molten (liquid) rock underground is called magma.

Volcanoes can bring molten rock to the surface, which we call **lava**.

When the molten rock cools, it turns into a solid and igneous rock forms.



Extrusive igneous rocks are formed by magma that has erupted onto the surface as lava and then cooled quickly.

Intrusive igneous rocks are formed by magma that has cooled slowly, deep underground.

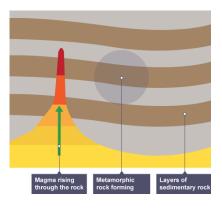
Lesson 9 Metamorphic Rocks

Metamorphic rocks are formed from other rocks which change due to heat or pressure.

The original rocks are usually sedimentary rocks or igneous rocks. Sometimes one metamorphic rock can be turned into a different metamorphic rock.

There are three stages involved in the formation of metamorphic rocks:

- 1. Earth movements cause rocks to be deeply buried or compressed.
- 2. This causes the rocks to be heated and puts them under great pressure.
- 3. They do not melt, but the minerals they contain are changed chemically, and form metamorphic rocks.



Lesson 10 Rock Cycle

Extrusive

Magma from molten crust and mantle

Rocks on Earth do not always stay the same.

Rocks are continually changing due to processes such as weathering, erosion and large earth movements. The rocks are gradually recycled over millions of years, changing between the different rock types.

This recycling of rocks is a process called the rock cycle.

Weathering is one of the many processes that occur in the rock cycle

Weathering breaks down rocks on the surface of the Earth.

- Biological weathering
 This describes rocks being broken up by the roots of plants, or animals burrowing into them.
- Chemical weathering
 This describes rocks being broken up because substances in rainwater, rivers and seawater or the air, react with the minerals in the rocks.
- Physical weathering
 This describes rocks being broken up by changes in temperature, freezing and thawing of trapped water or the action of waves and rivers.

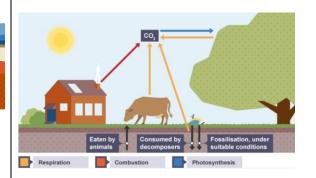
Another process of the rock cycle is **Erosion**.

Erosion is the process of moving the small pieces of rock formed by weathering. Erosion occurs from the action of water or wind.

The carbon cycle shows how atoms exist within different compounds at

The carbon cycle shows how atoms of carbon can exist within different compounds at different times and be recycled between living organisms and the environment.

Lesson 11



Carbon dioxide is absorbed by producers to make carbohydrates in photosynthesis.

Animals feed on plants, passing the carbon compounds along the food chain. Most carbon they consume is exhaled as carbon dioxide during respiration. The animals and plants eventually die.

Dead organisms are eaten by decomposers and carbon in their bodies is returned to the atmosphere as carbon dioxide. In some condition's decomposition is blocked. The plant and animal material may then be available as fossil fuel in the future for combustion.

Answer these questions in full sentences in your homework book:

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	
1. What is the word equation	What Is:	1. How is carbon dioxide	1. Name the three	1. What is global warming?	
for combustion?	An independent variable?	produced?	greenhouse gases.	How are humans causing	
2. What is a fuel?	2. A control variable?	2. How is soot formed?	2. Write out the formula of	global warming?	
3. What is the test for carbon	3. Dependent variable?	3. What problems can soot	the three greenhouse	3. True or false?	
dioxide?	4. Mass, measured with?	cause?	gases.	Global warming is causing	
4. What is cobalt chloride	5. Temperature, measured	4. Why is carbon monoxide	3. What is the greenhouse	climate change.	
paper a test for?	with?	toxic?	effect?	4. True or false?	
5. When does incomplete	With:	5. What problems do NO _x and	4. True or false?	Climate change will not	
combustion occur?		SO ₂ cause?	Without the greenhouse	cause animals to go extinct	
combustion occur:		302 cause:	effect life wouldn't be the	5. Name ways in which the	
			same.	climate may change.	
			5. True or false?	chinate may change.	
			Carbon monoxide is a		
			greenhouse gas.		
Lesson 6	Lesson 7	Lesson 8	Lesson 9	Lesson 10 & 11	
Name the layers of the	Name the five processes	1. What is magma?	How are metamorphic	1. What is weathering?	
earth.	that make a sedimentary	2. What is lava?	rocks formed?	Name three types of	
2. Which layer of the earth	rock.	3. How does liquid rock turn	2. True or false?	weathering.	
contains two parts?	2. State two examples of	into solid rock?	Metamorphic rocks can be	3. What is erosion?	
3. Which layer of the earth	sedimentary rocks.	4. What is an extrusive	made from other	4. How is carbon dioxide	
do we live on?	3. True or false?	igneous rock?	metamorphic rocks?	removed from the	
4. What are the names of the	Sedimentary rocks are	5. What is an intrusive	3. True or false?	atmosphere?	
big pieces of crust that fit	made from other rocks	igneous rock?	Metamorphic rocks form	5. Name one way carbon	
together like a jigsaw?	4. True or false?	igneous rock:	when older rocks are	dioxide is released into the	
5. How far can these pieces	The oldest layer in a		melted	atmosphere.	
move each year?	sedimentary rock is at the		4. True or false?	atmosphere.	
inove each year:	top		Metamorphic rocks are		
	5. True or false?		formed due to only heat		
	Sedimentary rocks can be		5. True or false?		
	made from grains of sand.		Metamorphic rocks are		
	made from grains of salid.		formed due to only		
			pressure?		
			pressurer		

Week 1: 9/09/24, week 2: 16/09/24

- 1. Use the sentence builder to write 3-5 sentences in Spanish
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking4. Correct in purple pen

¿Qué hay en la foto? – What is on the photo?

En la foto = In the photo En el centro de la foto = in the middle of the photo A la izquierda de la foto =	hay = there	X personas = X people un hombre = a man una mujer = a woman un chico = a boy una chica = a girl un grupo de = a group of un equipo de = a team of	creo que =	está = he/she is feeling están = they are feeling	alegre(s) = happy triste(s) = sad fenomenal(es) = amazing fatal(es) = awful
on the left of the photo	is/are	comida = food una bebida = drink	I think that		delicios@= delicious asqueros@ = disgusting
A la derecha de la foto = on the right of the photo		un libro = a book un ordenador = a computer		es = it is	san@ = healthy malsan@ = unhealthy nuev@ = new
Al fondo = in the background		un móvil = a mobile ropa = clothing			viej@ = old elegante = smart fe@ = ugly
La foto = the phot	0			una	empresa =a business
FWIFILM XTS		tiene lugar = takes place	en = in	un und un un un lak un un	a escuela = a school estadio = a stadium a fábrica = a factory n gimnasio =a gym un hotel = a hotel hospital = a hospital poratorio = a laboratory mercado = a market a oficina = an office na tienda = a shop

Week 3: 23/09/24, week 4: 30/09/24

- 1. Use the sentence builder to write 3-5 sentences in Spanish
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking4. Correct in purple pen

¿Qué vas a ser en el futuro? – What are you going to be in the future?

Verb	Noun	Connective	Verb	Noun
Voy a ser = I am going to be Quisiera ser = I would like	abogad@ = lawyer artista =artist azafata = air host(ess) camarero = waiter cantante = singer científic@ = scientist enfermer@ = nurse empresari@ = business(wo)man estrella = star futbolista = footballer guía turístico = tour guide ingenier@ = engineer jefe = boss mecánic@ = mechanic médic@ = doctor	porque = because	me encanta = I love me gusta = I like me interesa = I'm interested in se me da bien = I'm good at	el inglés = English el español = Spanish el francés = French la historia = history la geografía = geography la religión = RE/BVC el derecho = law la tecnología = technology la informática = IT la cocina = cookery el deporte = sport la educación física = PE la música = music el teatro = drama el dibujo = art
to be	músic@ = musician periodista = journalist pintor = painter policía = police officer secretari@ = secretary soldad@ = soldier actor/actriz = actor/actress profesor(a) (de) = () teacher		me encantan = I love me gustan = I like me interesan = I'm interested in se me dan bien = I'm good at	las matemáticas = maths las ciencias = sciences los idiomas = languages los negocios = business studies

Week 5: 07/10/24, week 6: 14/10/24

- 1. Use the sentence builder to write 3-5 sentences in Spanish
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking
 4. Correct in purple pen

¿Cuáles son las ventajas y desventajas de ser profesor? What are the advantages and disadvantages of being a teacher?

Noun	Prep	Infinitive	Noun	Verb	Connective	Verb	Noun	Adjective
Una ventaja = an advantage Una desventaja = a disadvantage	de = of	ser = to be	abogad@ = lawyer artista = artist azafata = air host(ess) camarero = waiter cantante = singer científic@ = scientist enfermer@ = nurse empresari@ = business(wo)man estrella = star futbolista = footballer guía turístico = tour guide ingenier@ = engineer jefe = boss mecánic@ = mechanic médic@ = doctor músic@ = musician periodista = journalist pintor = painter policía = police officer secretari@ = secretary soldad@ = soldier actor/actriz = actor/actress profesor(a) (de) = () teacher	es = is	que = that	es = is	un trabajo = a job	artístico = artisitic complicado = complicated cómodo = comfy/convenient difícil = difficult duro = hard emocionante = exciting fácil = easy importante = important necesario = necessary responsable = responsable útil = useful variado = varied bien pagado = well paid mal pagado = badly paid

Extension: Pick a Spanish speaking country (not Spain). Create ⁶³ poster showing the 10 most interesting facts about the country

Week 7: 21/10/24, week 8: 04/11/24

- 1. Use the sentence builder to write 3-5 sentences in Spanish
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking4. Correct in purple pen

¿Qué debes hacer para ser policía? = What do you need to do to be a policeman?

Connective	Verb	Noun	Auxiliary verb	Verb	Quantifier
			necesito = I need	cocinar =	
		abogad@ = lawyer	necesitas = you (s) need	to cook	
		artista =artist	necesita = he/she/it needs	construir =	
		azafata = air host(ess)	necesitamos = we need	to construct	
		camarero = waiter	necesitáis = you (pl) need	cuidar =	
		cantante = singer	necesitan = they need	to care (for)	
Para = (in order) to	ser = to be	científic@ = scientist enfermer@ = nurse empresari@ = business(wo)man estrella = star futbolista = footballer guía turístico = tour guide ingenier@ = engineer jefe = boss mecánic@ = mechanic médic@ = doctor músic@ = musician periodista = journalist	voy a necesitar = I am going to need vas a necesitar = you (s) are going to need va a necesitar he/she/it is going to need vamos a necesitar = we are going to need vais a necesitar = you (pl) are going to need van a necesitar = they are going to need debo = I must/have to debes = you(s) must/have to debe = he/she/it must/have to debemos = we must/have to debéis = you (pl) must/have to deben = they must/have to	diseñar = to design estudiar = to study escribir = to write hablar = to talk pensar = to think practicar = to practice	mucho = a lot poco= very little
		pintor = painter policía = police officer secretari@ = secretary soldad@ = soldier actor/actriz = actor/actress profesor(a) (de) = () teacher	voy a deber = I am going to have to vas a deber = you (s) are going to have to va a deber = he/she/it is going to have to vamos a deber = we are going to have to vais a deber = you (pl) are going to have to van a deber = they are going to have to	repasar = to revise saber = to know trabajar = to work	

Week 9: 11/11/24, week 10: 18/11/24

1. Use the sentence builder to write 3-5 sentences in Spanish

2. Translate your sentences into English

3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking 4. Correct in purple pen

¿Qué es el trabajo ideal para ti? – What is the ideal job for you?

Verb	Noun	Verb	Adjective	Prep	Pronoun	Connective	Auxiliary Verb	Verb	Adverb
Ser = to be	abogad@ = lawyer artista =artist azafata = air host(ess) camarero = waiter cantante = singer científic@ = scientist enfermer@ = nurse empresari@ = business(wo)man estrella = star futbolista = footballer guía turístico = tour guide ingenier@ = engineer jefe = boss mecánic@ = mechanic médic@ = doctor músic@ = musician periodista = journalist pintor = painter policía = police officer secretari@ = secretary soldad@ = soldier actor/actriz = actor/actress profesor(a) (de) = () teacher	es = is	ideal = ideal perfecto = perfect bueno = good malo = bad	para = for	mí = me tí= you él = him ella = her nosotros = us vosotros = you ellos/ellas = them	porque = because	puedo = I can puedes = you (s) can puede = he/she/it can podemos = we can podéis = you (pl) can pueden = they can	cuidar = to care for cocinar = to cook construir = to construct diseñar = to design escribir = to write hablar = to talk hacer = to do pensar = to think practicar = to practice saber = to know trabajar = to work	bien = well mal = badly rapidamente = quickly

Week 9: 11/11/24, week 10: 18/11/24

- 1. Use the sentence builder to write 3-5 sentences in Spanish
 - 2. Translate your sentences into English
- 3. Now close your knowledge organiser and try to translate your 3 sentences back into Spanish without looking
 - 4. Correct in purple pen