



Year 7

Student Planner and Knowledge Navigators

2023-24 Cycle 3

Full Name:		Advisory:	
Advisor:		Head of Year:	

Wednesday Morning Meeting: Behaviour Curriculum and Cognitive Science

Behaviour Curriculum Brain Dump

Behaviour Curriculum: Retrieval Practice

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

Cognitive Science Brain Dump

Personal Reflection: How will I apply what I have learnt in today's session?

Revision Space

Wednesday Morning Meeting: Behaviour Curriculum and Cognitive Science

Behaviour Curriculum Brain Dump

Behaviour Curriculum: Retrieval Practice

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| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

Cognitive Science Brain Dump

Personal Reflection: How will I apply what I have learnt in today's session?

Revision Space

Quote of the day

“I hated every minute of training, but I said, ‘Don’t quit. Suffer now and live the rest of your life as a champion.’ — Muhammad Ali

What have you learnt from today’s session? Write down at least three facts below.

- 1.
- 2.
- 3.
- 4.
- 5.

Review of Mastery Next Step:

Did you achieve your mastery next step from Monday? If so, how did you achieve it?

If not, why not?

Monday Morning Meeting - Cycle 3 Week 12

Mastery Next Step

Word of the Week:
Definition

Word of the Week:
Use in a sentence

Characterisation		
25. Motivation	What a character wants or needs in a scene	
26. Style	The way in which something is performed e.g. naturalistically	
27. Subtext	The unspoken meaning, feelings and thoughts beneath the lines	
Physical Skills and Vocal Skills		
28. Movement	Changing positions or moving across the space	
29. Posture	The way they stand and hold themselves	
30. Gesture	Movements of hands, head, legs usually convey a message/meaning	
31. Facial expressions	The feelings (or lack of them) shown on the face	
32. Use of stage space	How an actor moves around the space, using levels, direction	
33. Interaction/ Proxemics	How a character reacts to other characters. Proxemics mean moving towards or away from another character and the distance between the characters	
34. Handling of props	How a prop is handled during a performance	
35. Choreography/ stage fights	Setting movements to create meaning/blocking movements to create the impression of violence	
36. Stage business	Minor movements or blocking that an actor does to establish a situation (reading a book/ closing a window)	
37. Pace and pause of movement	The speed of the movement and use of stillness to convey a meaning, feeling or atmosphere	
	38. Pitch	The vocal register - high or low
	39. Pace	How quickly or slowly something is done
	40. Pause	A hesitation or silence
	41. Emphasis	Stressing or highlighting something
	42. Inflection	Saying a word in a particular way to stress its meaning
	43. Accent	A way of pronouncing words associated with a country, region or social class
	44. Volume	Degree of loudness
	45. Delivery	How dialogue is said to convey meaning
	46. Emotional range/ tone	Feelings are expressed by the way the line is said
	47. Phrasing	Use of hesitation, metre and/or grouping

Design Technology Knowledge Navigator

Key Terms	
1. Customer	A person who will buy OR use your product.
2. Client	A person or company asking you to work for them.
3. Design Brief	A guide for a project given to you by the client.
4. Ore	The solid material which metal is taken from.
5. Ferrous Metal	A metal which contains iron.
6. Non-Ferrous Metal	A metal which does not contain iron.
7. Alloy	A metal made from 2 or more metals to improve its properties.
8. Pewter	Alloy metal which will melt at low temperatures. Contains many metals including Tin & Copper.
9. Mould	A hollow container designed for casting.
10. Casting	The process of using the mould to pour molten metal inside and create a shape when the metal has cooled.
11. Sprue Hole	The gap where the metal enters the mould.
12. Sprue	The metal which is left over from moulding which takes the shape of the sprue hole.
13. Hearth	The base of the furnace in the workshop used for heating metal.

6 Rs	
R Reduce	Minimise the amount of material and energy used in the production or use of the product.
R Recycle	Take an existing product that has become waste and reprocess the material to use in a new product.
R Reuse	Take an existing product that's become waste and use the material or parts for another purpose, without processing it.
R Repair	When a product breaks down or doesn't function properly, you should be able to fix it.
R Refuse	Don't use or buy a product if you think you don't need it or if it is bad for the environment.
R Rethink	Ask if we can sustain our current way of life and the way we design and make. Come up with new solutions.



Key Terms	
Health and Safety	A set of rules and regulations enforced to keep people safe in the chosen environment.
Hazard	A risk of harm or injury.
Precaution	A measure taken to minimise the chance of harm or injury.
Pillar Drill	A drill mounted on a column or pillar. It is used to drill holes in wood, metal and plastics. You must clamp your work.
Dowel	A hardwood rod made of lamin with a circular profile.
Sand Paper	Made from Aluminium Oxide comes in a variety of grades.
Isometric Drawing	A drawing with vertical lines and lines at 30degrees from the horizontal.
Manufactured Board	Large sheets of processed wood such as plywood and MDF.

Key Terms	
Polymer	Technical term for what we commonly call plastics.
Molecule	A group of atoms bonded together.
Polymer Chain	A chain of molecules found in all polymers.
Thermoframing	A polymer which can be reheated and reformed repeatedly.
Cross links	Connections between polymer chains.
Thermosetting	A polymer which cannot be reheated and reformed.
Raw material	The natural material from which a product is made.
Extracting oil	Drilling into the earth to remove oil.
Fractional distillation	Separating oil into different parts, including what is needed to make polymers.
Moulding	Turning a polymer into a product shape.
Stock Form	How we buy polymers/plastics to use to make products at school e.g. sheet, tubular, square profile.
PVA	Glue used to join linoleum or paper/board together.
Epoxy Resin	Glue used to join linoleum/metal/polymers together.
Solvent Cement	Glue used to join polymers together.
Contact Adhesive	Glue used to join linoleum/metal/polymers together.

Tuesday Morning Meeting: Maths Masterclass

Maths Masterclass: Retrieval Practice

1. _____	4. _____
2. _____	5. _____
3. _____	6. _____

Maths Masterclass: Application Practice

I Do	You Do

Maths Masterclass: Application Practice

1. _____	4. _____
2. _____	5. _____
3. _____	6. _____

Maths Masterclass: Diagnostic Question

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Behaviour Curriculum Brain Dump

Behaviour Curriculum: Retrieval Practice

1. _____	4. _____
2. _____	5. _____
3. _____	6. _____

Cognitive Science Brain Dump

Personal Reflection: How will I apply what I have learnt in today's session?

Equipment for Cooking	
	14. Piping Bag Used to apply various liquid-based food to other foods – batter or icing. Part of shaping and moulding
	15. Palette Knife Used to smooth or lift different types of foods or decorative foods, such as smoothing butter cream icing
	16. Baking Tray Used to cook or bake food items. Different types of trays are available


17. The Eatwell Guide

the eatwell plate



Fruit and Veg
Dairy and Alternatives
Carbohydrates
Oils and Spreads
Protein

18. Heat Transfer



Conduction – direct heat - frying
Convection – heat rising through liquid or air - boiling
Radiation – heat from light ray transfer – bba/grilling

Key Terms	
1 Health and Safety	Rules you should follow in the kitchen to keep you safe while cooking and preparing food.
2 Cross-contamination	When bacteria from raw meat is spread onto vegetables . Puts people at risk of food poisoning. Avoided by using different equipment to prepare and cook raw meat and vegetables.
3 The Eatwell Guide	The main source of nutritional information in the diet – five food groups: Fruit and vegetables, carbohydrates, protein, dairy and alternatives, oils and spreads. Gives food portion information to people.
4 Nutritional Values	The amount of nutrients – both macro (big) and micro (small) – that a given dish provides you with.
5 Micronutrients	Nutrients such as vitamins and minerals, including calcium, vitamin A, B, C, D, E and K.
6 Sensory Analysis	Using the senses – sound, texture, aesthetics, hearing, smell and umami – to decide how successful a dish is.
7 Heat Transfer	When heat is transferred from the source of heat to the food. Conduction, convection and radiation – frying = conduction, boiling = convection, grilling = radiation.
8 Fermentation	Micro-organisms – such as yeast – breaking down the carbohydrates in food into alcohol substances. We use different amounts of fermentation for different foods.
9 Method	The steps that are written down about how to make the dish.
10 Ingredients	The different food products that are needed to make a dish.
11 Food Evaluation	The process of analysing food products to determine their sensory, nutritional, and safety properties.
12 Balanced Diet	Eating a variety of foods to get all the nutrients in the right proportions and quantities to be healthy.
13 Composite Meal	A food/dish made from different food groups, e.g. pizza, spaghetti bolognese.

Quote of the day

'It's never too late to be what you might've been.' — George Eliot

What have you learnt from today's session? Write down at least three facts below.

- 1.
- 2.
- 3.
- 4.
- 5.

Review of Mastery Next Step:

Did you achieve your mastery next step from Monday? If so, how did you achieve it?




If not, why not?

Monday Morning Meeting - Cycle 3 Week 13


Mastery Next Step




Word of the Week:
Definition

Word of the Week:
Use in a sentence

		
Filled with hot water to wash equipment.	Frazing knife – small knife used to generally cut veg and meat.	Used to cut food product on to protect work surface. Red for meat, white for veg.

Hygiene and Safety in the kitchen
Personal rules:
 • Wash your hands for 20 seconds
 • Tie your hair back
 • Wear an apron
 • Remove jewellery



		
Used for frying, boiling or other types of cooking using a saucepan, top of the oven.	The top section of the oven (if it's a double oven).	Used for drying equipment.

Protein

- Lean beef (1g per 100g)
- Chicken (1g per 100g)
- White fish (1g per 100g)
- Turkey (1g per 100g)
- Eggs (1g per 100g)
- Milk (1g per 100g)
- High protein milk (1g per 100g)
- Cheese (1g per 100g)
- High protein yoghurt (1g per 100g)
- Legumes (1g per 100g)
- Plant milk (1g per 100g)

Simple Carbohydrates

- White bread
- White rice
- White pasta
- White sugar
- White flour
- White sugar
- White flour
- White sugar
- White flour

Complex Carbohydrates

- Brown bread
- Brown rice
- Brown pasta
- Brown sugar
- Brown flour
- Brown sugar
- Brown flour
- Brown sugar
- Brown flour

Fats

- Butter
- Vegetable oil
- Animal fat
- Plant fat
- Animal fat
- Plant fat
- Animal fat
- Plant fat
- Animal fat
- Plant fat

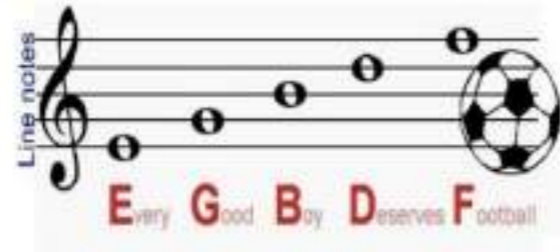
Key Terms	
1	Fruits and vegetables 1st and largest food group. All fruits and vegetables – does not include potatoes. This is the one we should have the most of.
2	Carbohydrates 2nd largest food group has two main categories: Starchy are slow-release energy – foods like potatoes, whole grains. Sugary are fast-release energy – foods such as sweets, juice, white bread.
3	Protein 3rd largest food group. All forms of meat, includes eggs and other animal products – bacon and sausages. Non animal sources: beans, pulses, nuts, lentils.
4	Dairy and alternatives 4th largest food group. Cheese, milk, cream from animals. Alternatives are options that are made from plant products as opposed to animal products, such as soya milk.
5	Fats and spreads 5th and last food group – Olive oil, margarine, for example, are in this group.
6	The Eatwell Guide Food created by government to advise on healthy diet and what food should be consumed in each proportion. Can advise on food groups as an overall diet for daily or weekly planning.
7	Macronutrients The main and biggest (macro = big) nutrients we need each day for our bodies to function.
8	Carbohydrates - macronutrient Its main function is to give us energy to perform daily activities.
9	Proteins - macronutrient A macronutrient. Its main function is to help the body build muscles and repair body cells.
10	Fats - macronutrient A macronutrient. Its main function is to help protect organs from damage by providing a cushion.
11	Cross contamination A spread of harmful microorganisms from one thing to another. For example, if kitchen environment is not kept clean or unhygienic preparation of food.
12	Hazard A hazard is any source of potential damage, harm or adverse health effects on something or someone. Basically, a hazard is the potential for harm.
13	Seasonality Seasonality of food refers to the times of the year when a given type of food is at its peak, either in terms of harvest or its flavour.

Key Definitions		
1.	Notation	A series or system of written symbols used to represent elements in music.
2.	Clef	Any of several symbols placed at the left hand end of a staff, indicating the pitch of the notes written on it.
3.	Treble Clef	A symbol found at the beginning of a staff to indicate how the notes on that staff should be read.
4.	Staff	A set of five parallel lines on which a note is written to indicate its pitch.
5.	Ledger Line	A ledger line is used in musical notation to notate pitches above or below the lines and spaces of the regular musical staff.
6.	Accidental	A sign seen before a note on the staff that raises or lowers the pitch of a note.
7.	Semitone	The smallest interval used in classical Western music, equal to a twelfth of an octave or half a tone.
8.	Whole Tone	The distance of two semitones between two notes.
9.	Enharmonic	Relating to or denoting notes which are the same in pitch (in modern tuning) though bearing different names.

The Notes in the Spaces on the Staff



The Notes on the Lines of the Staff



Exploring Chords and Melodies

A-Musical Elements-Key Definitions			B-The parts of a Ukulele		
8.	Ukulele	A small four-stringed guitar of Hawaiian origin.	10.	Body	The main part of the instrument.
9.	Chord	A group of (typically three or more) notes sounded together, as a basis of harmony.		Soundhole	The hole in the body through which sound escapes.
10.	Sequence	A particular order in which related things follow each other.		Bridge	The part of the instrument that supports the strings.
11.	Tempo	The speed of a piece of music.		Tuning Keys	Used to adjust the tension of the strings.
12.	Technique	A skilful or efficient way of doing or achieving something.		Frets	Short strips of metal that divide the neck into segments.
13.	Ensemble	To perform music to an audience as part of a group.		Nut	The piece of wood or bone at the top of the neck.
14.	Performance	The act of entertaining an audience by singing or playing a piece of music on a music instrument.		Neck	The long part of the instrument that holds the strings.
15.	Rhythm	Patterns of long and short sounds played within a steady beat.		Head	The part of the instrument at the top of the neck.
16.	Pitch	The highness or lowness of sound.	11.	The ukulele has four strings tuned to the notes G C E A (Greedy Cats Eat Ants).	

C-Chords on the Ukulele							
Chord Name	Notes in the Chord	Position on the instrument	Diagram	Chord Name	Notes in the Chord	Position on the instrument	Diagram
12.	C Major	A string, 3 rd fret		14.	G Major	C string 2 nd fret, E string 3 rd fret & A string 2 nd fret	
13.	A minor	G string, 2 nd fret		15.	F Major	G string fret 2 & E string fret 1	

Maths Masterclass: Retrieval Practice

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Maths Masterclass: Application Practice

I Do	You Do

Maths Masterclass: Application Practice

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Maths Masterclass: Diagnostic Question

Wednesday Morning Meeting: Behaviour Curriculum and Cognitive Science

Behaviour Curriculum Brain Dump

Behaviour Curriculum: Retrieval Practice

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Cognitive Science Brain Dump

Personal Reflection: How will I apply what I have learnt in today's session?

Music Knowledge Navigator


KS3 Music-Knowledge Navigator


Exploring Rhythmic Notation

A-Musical Elements-Key Definitions			B-Note Names, Symbols, Duration & Rests				
1.	Pulse	Pulse is a steady beat like a ticking clock, or your heartbeat and it provides the basis for rhythmic structure in music.	Note	Name	Duration	Rest	
2.	Rhythm	An aspect, characteristic or feature that makes up a piece of music.	11.		Semibreve	4 beats	
3.	Element	The length of a sound – long/short	12.		Minim	2 beats	
4.	Dynamics	The varying levels of volume within a piece of music.	13.		Crotchet	1 beat	
5.	Solo	To perform music to an audience by yourself.	14.		Quaver	1/2 beat	
6.	Ensemble	To perform music to an audience as part of a group.	15.		Semiquaver	1/4 beat	
7.	Performance	The act of entertaining an audience by singing or playing a piece of music on a music instrument					

C-Dynamics Symbols			
	Symbol	Italian	English
16.	<i>pp</i>	<i>pianissimo</i>	Very quiet
17.	<i>p</i>	<i>piano</i>	Quiet
18.	<i>mf</i>	<i>mezzo forte</i>	Moderately loud
19.	<i>f</i>	<i>forte</i>	Loud
20.	<i>ff</i>	<i>fortissimo</i>	Very loud
21.		<i>crescendo</i>	Gradually getting louder

Introduction to Keyboard Skills

A-Musical Elements-Key Definitions			B-Numbering Our Fingers	
1.	Keyboard	A musical instrument that consists of a row of keys that increase in pitch across the instrument.	8. 	
2.	Octave	A series or scale of eight notes e.g. C to C.		
3.	Accuracy	The quality or state of being correct or precise.		
4.	Semibreve	A note having the time value of 4 beats represented by a ring with no stem.		
5.	Solo	To perform music to an audience by yourself.	9. The musical alphabet starts on the note C.	
6.	Ensemble	To perform music to an audience as part of a group.	10. The notes within the musical alphabet are C D E F G A and B.	
7.	Performance	The act of entertaining an audience by singing or playing a piece of music on a music instrument		

D-The Notes on a Keyboard	
11.	
12.	C is always the white note situated to the left of the set of two black keys.
13.	Middle C is the C note found directly in the middle of the keyboard.

Quote of the day

“Twenty years from now you’ll be more disappointed by the things you did not do than the ones you did.” — Mark Twain

What have you learnt from today’s session? Write down at least three facts below.

- 1.
- 2.
- 3.
- 4.
- 5.

Review of Mastery Next Step:

Did you achieve your mastery next step from Monday? If so, how did you achieve it?

If not, why not?

Revision: Advice and Guidance

One of the best revision techniques is Look, Cover, Write, Check. The process is outlined below.

1. Look at the first bullet point or sentence.
2. Read it through three to five times.
3. Cover the page so that you can no longer see it.
4. Write it out exactly (word for word) as it appears in your knowledge navigator from memory.
5. Check what you wrote. Tick if correct, change if incorrect.
6. Repeat.
7. When you get it 100% correct then move on to the next chunk of information.

Remember

If information retrieved (remembered) often enough then it will gradually form part of our long term memory. Then we will never forget it.

This process is hard. If it isn’t hard then it isn’t working.

Knowledge Organiser: Computer Crime & Cyber Security

Summary

Malware is a general term that describes lots of different programs that try to do something unwanted to your computer. Malware is made to stop your device from running properly and sometimes to steal your information.

Anti-malware software is designed to find and stop malware from damaging your computer or a network. To protect your computer you need to install anti-malware software and run regular scans.

When you are online you need to watch out for phishing and spam emails and protect your private information. Phishing emails are trying to trick someone into giving out information over email. Spam emails can contain malware.

Smartphones and mobile devices allow for photos, videos and your location to be shared instantly on the internet. Be careful what you get up to in public as anyone might have a smartphone pointed at you. Do not post photos or videos of other people online without their permission.

Phishing emails are trying to trick someone into giving out information over email.

What to look out for in a phishing email

The greeting is not personalised

Poor spelling and grammar

Forged link



Request for personal information

Sense of urgency

The sender’s address is often a variation on a genuine address

Spam emails offer all kinds of things like money and prizes and can contain malware too.

Ways to reduce spam:

Use a spam filter - most email clients try to stop spam from reaching you by using a spam filter.

Do not give your email address out – if you don’t trust the website or if supplying your email address is optional, don’t give it to them.

Keep an eye out for tick boxes – when you sign up to a website, it might try to sign you up to its newsletter.

Key Vocabulary

Backup	A copy of important files that is kept separately in case your original files are lost or damaged.
Chat room	Accessed on the internet, users can meet to chat in real-time, messages are typed out but voice chat rooms exist too.
Copyright	A set of rights that prevents people copying and distributing a piece of work without the copyright holder’s permission.
Data	Values, typically letters or numbers.
File sharing	The act of sharing files over the internet.
Firewall	An application that prevents unauthorised connections to and from the internet.
Hack	Gaining unauthorised access to a computer.
Information	Data that has meaning, not just a number or a letter.
Licence	A legal agreement between the company who published the software and the end user covering areas such as copyright.
Malware	Malicious software created to damage or gain illegal access to computer systems.



Malware is software that can harm devices. Typical actions of malware include deleting or modifying files.

Spyware—secretly monitors user actions, e.g. key presses, and sends information to the hacker. Some spyware can even use your webcam without your knowledge.

Viruses—spreads through normal programs and might slow down your device or change your applications and documents.

Worms— spread from device to device and copy themselves hundreds of times. A worm might copy itself onto your email account and then send a copy to all of your email contacts!

Trojan horse— pretends it will be a useful and safe program, when actually it will try to attack your device.

Adware—displays adverts while it is running; some can serve as spyware, gathering information about you from your hard drive, the web sites you visit, or your keystrokes.

Staying safe online

Never disclose your name telephone number address or school

It’s wise not to share your location. Especially on websites and apps that are accessible by anyone.

Never accept someone as a ‘friend’ on social media simply because they claim to know another friend of yours. Always be cautious about what you say online.

Visit these websites for advice



Knowledge Organiser: Understanding computers Discover how computers work

Summary

Computers require input hardware, processing hardware and output hardware. The hardware that defines a computer is the **CPU** and **memory**. Without these a computer could not function. The CPU and memory work together to run programs.

CPU - executes programs using the **fetch-decode-execute cycle**.

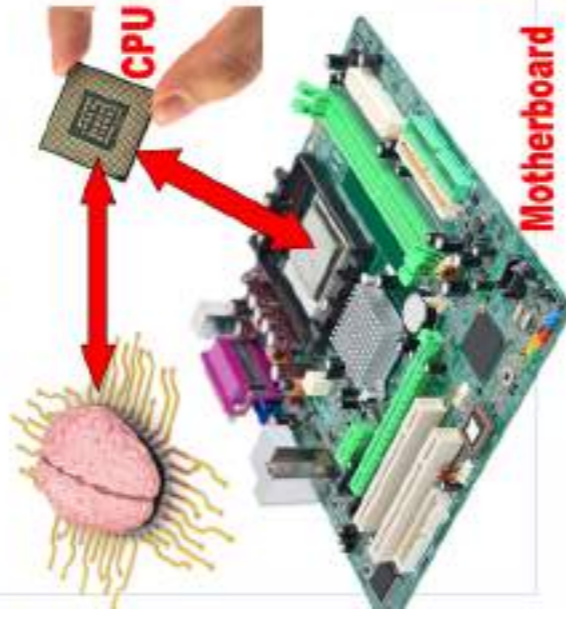
Memory - stores program operations and data while a program is being executed. There are several types of memory, including: **registers, cache, RAM** and **virtual memory**.

Storage - stores programs and files long term, even when they are not in use. Devices such as hard drives, USB memory sticks or SD cards are used to store files such as photos, music and software applications long term.

An **input device** is any piece of computer hardware used to provide data to a computer system. Examples include: keyboard, mouse, scanner, digital camera and webcam.

An **output device** is any piece of computer hardware used to communicate the results of data that has been processed.

Central Processing Unit
The **Central Processing Unit** or **CPU** is arguably the most important component of a computer. You can think of the CPU as being like the brain in a human. It is responsible for all of a computer's processing.



The Fetch - Decode - Execute cycle
The CPU operates by repeating three operations:
FETCH - causes the next instruction and any data involved to be fetched from main memory
DECODE - decodes the instruction to make sure it can be carried out
EXECUTE - carries out the instruction
Repeat...



Key Vocabulary

Clock speed	The speed of a computer CPU, measured in hertz.
Cache	A piece of temporary memory. It can refer to a part of the RAM, storage disk, CPU, or an area for storing web pages.
CPU	Central Processing Unit - the brains of the computer that processes program instructions. Also called a microprocessor .
Execute	To run a computer program.
GHz	Gigahertz. One billion hertz per second = one gigahertz. This is a measure of frequency and is used to describe bus speeds and CPU clock speeds.
Hardware	The physical parts of a computer system, e.g. a graphics card, hard disk drive and CD drive.
Motherboard	The circuit board inside a computer that houses the CPU, memory and connections to other devices.
RAM	Memory that is constantly being written to and read from. It does not retain its contents without a constant supply of power, i.e. when a computer is turned off, everything stored in its RAM is lost.
Registers	The section of high speed memory within the CPU that stores data to be processed.
Software	Software is the programs that run on a computer.
Virtual memory	A section of a computer storage drive which is temporarily used as RAM.

Binary Units

Remember the units used in the binary system.

- 1 byte = 8 bits
- 1 Kilobyte = 1024 bytes
- 1 Megabyte = 1024 Kilobytes
- 1 Gigabyte = 1024 Megabytes
- 1 Terabyte = 1024 Gigabytes

English Language Paper 1 KS3 Knowledge Organiser

READING THE EXTRACT

1. Read and annotate for 10 MINUTES 2. Read the questions 3. Highlight information in the extract that will help you with the questions.
4. Make notes alongside each paragraph of the extract to explain what is happening.

Qs	Time	What should I do for this question?		
Q1 COMPREHENSION	5 minutes	<ul style="list-style-type: none"> Write 4 things that are asked for in the question. You can write in bullet points. 		
Q2 LANGUAGE ANALYSIS	10 minutes	<p>You will ANALYSE the language of the extract. Aim to analyse 3 QUOTATIONS from the specific part of the text.</p> <ul style="list-style-type: none"> WHAT is shown about the focus of the question? Make clear points about the presentation of character or theme. Then, embed relevant evidence. HOW does the writer show the focus? Zoom in on key words from selected evidence, analyse the use of language techniques. WHY does the writer present the focus in this way? What is the writer trying to show about the focus? <p>You will ANALYSE the BEGINNING, MIDDLE AND END of the extract. You will explore how the technique has been set out to INTEREST THE READER.</p> <ul style="list-style-type: none"> What is happening at the this part of the text? What is the reader's focus on? Does the writer use a specific structure/technique? Include evidence to support this. Why does this make the reader interested? Do not analyse the language of quotations. 		
Q4 EVALUATION	26 minutes	<p>You will EVALUATE the extract - this means you will give your opinion on the question set and ANALYSE evidence from the text to support this.</p> <ul style="list-style-type: none"> WHAT is your opinion on the question? HOW is this opinion supported by the extract? Provide evidence to support and analyse key words and techniques within this. WHY is the writer presenting the character of idea in this way? Evaluate what impact this has on the reader. 		
Q5 NARRATIVE (STORY) OR DESCRIPTIVE WRITING	45 minutes	<table border="0"> <tr> <td style="vertical-align: top;"> <p>Narrative</p> <ul style="list-style-type: none"> Story progression: opening to introduce the narrator → build up → climax → resolution → ending One narrator and just one other character. DO NOT write an action packed story! Just write a simple story of something that could happen every day. <p>Description</p> <ul style="list-style-type: none"> Details on the whole scene → zoom in 1 → zoom in 2 → zoom in 3 Have a clear narrator who is guiding the reader through the scene. Sensory imagery - sight, smell, sound, taste, touch. </td> <td style="vertical-align: top;"> <p>Content</p> <ul style="list-style-type: none"> Correct punctuation: , ; : - () * Capital letters for the start of sentences and proper nouns Paragraphing - start a new paragraph for a new focus in your writing Sentence structures - simple, complex, compound Sentence openers - fronted adverbials, list of three Vocabulary - a variety of exciting words </td> </tr> </table>	<p>Narrative</p> <ul style="list-style-type: none"> Story progression: opening to introduce the narrator → build up → climax → resolution → ending One narrator and just one other character. DO NOT write an action packed story! Just write a simple story of something that could happen every day. <p>Description</p> <ul style="list-style-type: none"> Details on the whole scene → zoom in 1 → zoom in 2 → zoom in 3 Have a clear narrator who is guiding the reader through the scene. Sensory imagery - sight, smell, sound, taste, touch. 	<p>Content</p> <ul style="list-style-type: none"> Correct punctuation: , ; : - () * Capital letters for the start of sentences and proper nouns Paragraphing - start a new paragraph for a new focus in your writing Sentence structures - simple, complex, compound Sentence openers - fronted adverbials, list of three Vocabulary - a variety of exciting words
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Language Techniques:

- Adjective / verb / noun
- Simile
- Metaphor
- Personification
- Alliteration
- Hyperbole
- Repetition
- Rhetorical question
- Juxtaposition
- Pathetic fallacy
- Imperative/Exclamative/Declarative sentences

Structure Techniques:

- Beginning
- Middle
- End
- Climax
- Cliff-hanger
- Foreshadowing
- Rising action
- Panoramic
- Narrative perspective
- Cyclical structure
- Chronological

Synonyms for SHOWS:

- Suggests
- Conveys
- Portrays
- Illustrates
- Presents
- Displays
- Demonstrates
- Indicates
- Reveals
- Highlights
- Reflects

Sentence Starters:

- Q2
The writer uses language to describe...
This is shown in '.....',
The use of '.....' suggests.....
Connotations of the word '.....' portray.....
This makes the reader feel..... because.....
- Q3
At the beginning, the writer focuses on...
This is shown in '.....',
The writer uses the technique... to suggest...
This makes the reader feel.....
- Q4
My opinion on the text is...
This is supported in the text with '...'
The writer uses..... to suggest...
This is effective..... because.....
This makes the reader feel..... because.....

Unit 1 Algebra

OPERATIONS	
order of operations	the laws regarding the order in which to calculate this is used in algebra too



ALGEBRAIC NOTATION	
unknown value	a value which is not known represented by a letter in algebra
variable	a value which can change represented by a letter in algebra
coefficient	a number used to multiply a variable the number that comes in front of a letter, e.g. 3b means 3xb the coefficient is 3, the variable is b
constant	something which doesn't change in a formula
indices	power of a variable or number
term	a number or letter on its own, or numbers and letters multiplied together e.g. -2, 3x or 5a ²
like terms	terms which are the same apart from their numerical coefficients: they are the same variable and have the same power
expression	a set of terms combined using the operations +, -, x or ÷, there is no "=" sign e.g. 4x-3, 5a-3xy+17
equation	where two expressions are equal in value – there is always an "=" sign e.g. 4b = 18

ALGEBRAIC SHORTHAND: EXAMPLES	
b	1 x b
3b	3 x b
b²	b x b x b
3b²	3 x b x b x b
(3b)²	(3 x b) x (3 x b) x (3 x b)
$\frac{a}{b}$	a ÷ b

INSTRUCTIONS: EQUATIONS	
solve	find the value of an unknown or variable, use inverse operations and the balancing method
inverse	the opposite
balance an equation	use to solve an equation, do the same to both sides of the "=" to eliminate terms from both sides and keep it balanced

INSTRUCTIONS: GENERAL	
evaluate	find the value of
form	to write or produce
substitute	replacing letters with numbers to calculate the numerical value
simplify	to reduce to its simplest form
expand	multiply terms inside a bracket by those outside the bracket
factorise	finding the factors of an expression the reverse of expand , it is when we write an expression using brackets
collect like terms (+/-)	you can add or subtract like terms using the coefficients
multiplying terms	multiply coefficients/numbers , simplify variables with indices
dividing terms	set up using a vinculum , cancel common factors , simplify variables with indices

SEQUENCES VOCABULARY	
sequence	a pattern of terms/numbers which follow a rule
term	each value in a sequence is called a term
position	the place it is located e.g. in the sequence: 3, 5, 7, 9 the term '5' has a position of 2 (as is the 2 nd term)
term-to-term rule	a rule which allows you to calculate the next term in a sequence if you know the previous term
position-to-term rule	a rule which allows you to calculate any term that is in the nth position of the sequence (nth Term)
generate	to produce or create

TYPES OF SEQUENCES	
linear sequences	a sequence where the difference between terms increases or decreases by the same amount each time also known as an arithmetic sequence use DINO to find the nth term : find the difference , use as the coefficient of 'n' then +/- the ' one before ' onto the end
squares and cubes	square numbers : 1, 4, 9, 16, 25, 36... cube numbers : 1, 8, 27, 64, 125...
Fibonacci sequences	a sequence where the next number is found by adding up the previous two terms the Fibonacci sequence: 1, 1, 2, 3, 5, 8, 13 ...
triangular number	a number that can make a triangular dot pattern , found by adding on one more each time

Section 8	
Akhirah	Meaning 'afterlife'.
Jannah	Heaven.
Jahannam	Hell.
Judgement day	Belief that Allah will, at one point in future, judge all souls on whether they lived well enough to spend eternity in Jannah or in Jahannam.

Section 9	
Khalifah	Means both 'leader' and 'steward' (i.e caretaker, like of the planet, nature, etc.)
Stewardship	The belief that mankind is responsible for, and should look after, all of nature.
Eco-friendly	Something that is not harmful, or may even be beneficial, to the environment.

Section 10	
Zakah	One of the 5 pillars of Islam; commitment to annual donation to charity (2.5% of wealth)
Hajj	One of the 5 pillars of Islam; commitment to a pilgrimage (holy journey) to Mecca.
Mecca	City in Saudi Arabia, considered the holiest on earth in Islam as the ummah began here.

Section 11	
Prejudice	To judge someone or a group of people without knowing/understanding them.
Discrimination	To treat someone or a group of people negatively based on prejudice.
Stereotype	An overly simple idea of someone or a group of people that is usually negative.

Section 12	
Terrorism	Beliefs and/or acts that cause (or aim to cause) suffering and fear in society.
Extremism	Beliefs considered highly unacceptable and highly discriminatory to others.
Islamophobia	Hatred, prejudice or discrimination of Muslims or the religion of Islam.

Section 13	
Hate crime	A crime committed because of the criminal's prejudice towards someone/a group.
Media	Any method of mass communication (e.g. newspapers, TV, Facebook, Instagram, etc)
Diversity	The positive quality of having many differences, for example UK society has lots of diversity because of its many people of various faiths, cultures, ethnicities, etc.

Section 1	
Abrahamic faiths	The religions of Judaism, Christianity and Islam; all are united by belief in prophet Abraham and traditions which come from this.
Influence	To affect something (e.g. our actions, feelings, thoughts, choices, etc)
Allah	Arabic term for God

Section 2	
Tawhid	The belief that there is only one God: Allah.
Ummah	Meaning 'brotherhood'; term for the Muslim community local or worldwide
Muslim	A follower of Islam

Section 3	
Omnibenevolent	Belief that God/Allah is all-loving.
Omnipotent	Belief that God/Allah is all-powerful.
Omniscient	Belief that God/Allah is all-knowing.

Section 4	
Sunni	Meaning 'follower of the sunnah'; these are the Muslims who traditionally recognised Abu Bakr (Muhammad's close friend) as the ummah's next leader.
Sunnah	The path and way of Muhammad; all Muslims try to follow this in life.
Shi'a	Meaning 'supporters of Ali'; these are the Muslims who traditionally recognised Ali (Muhammad's son-in-law) as the ummah's next leader.
Khalifah	Means both 'leader' and 'steward' (i.e caretaker, like of the planet, nature, etc.)





Section 5	
Rak'ah	A 'stage' or 'step' in Islamic prayer.
Misbaha beads	Prayer beads used by Muslims to recite Allah's 99 names as a show of devotion.
Salah	One of the 5 pillars of Islam; Muslims commit to praying 5 times each day.
Taqwa	Meanings 'God-consciousness'; Muslims focus on Allah alone when praying.

Section 6	
Qur'an	The holiest book in Islam; it was revealed to Prophet Muhammad over 23 years.
Surah	A chapter of the Qur'an.

Section 7	
Hafiz	Meaning 'guardian'; the term for a person who has memorised the whole Qur'an.
Prophet	A messenger of God Allah; in Islam, Muhammad is the most beloved messenger.

Unit 2
Number

NUMBER SENSE	
integer	a whole number can be positive or negative
place value	the value of a digit in a number based on where it lies
decimal	not a whole number, it has a decimal point in it, can be positive or negative
terminating decimals	decimals which have a finite number of place values
recurring decimals	decimals with repeating digits or repeating patterns of digits
negative	a number that is less than zero, they can be decimals
ascending	numbers ordered from smallest to largest
descending	numbers ordered from largest to smallest

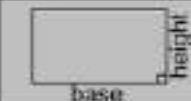

INEQUALITIES	
where two expressions are not equal in value	
strict inequalities:	< less than  > greater than 
non-strict inequalities:	≤ less than or equal to  ≥ greater than or equal to 

MULTIPLES, FACTORS AND PRIME NUMBERS	
multiple	the result of multiplying a number by an integer, e.g. the 3 rd multiple of 7 is 21
lowest common multiple (LCM)	the lowest common number in the multiplication tables of two or more different numbers
factor	a quantity which divides equally into a number, e.g. factors of 8 are 1, 2, 4 and 8
highest common factor (HCF)	the highest factor which belongs to two or more numbers
prime number	an integer greater than 1 that has exactly two factors, 1 and itself
prime numbers	2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31...
prime factor	a factor of a number which is also prime
product of prime factors (prime factorisation)	a set of prime factors which multiply to give a number e.g. prime factor tree 12 = 2 × 2 × 3 or 2 ² × 3

OPERATIONS		
addition	symbol: $+$ (plus)	Vocabulary: add, more than, sum, total, all together, more than
subtraction	symbol: $-$ (minus)	Vocabulary: subtract, less, difference, take away, fewer than
multiplication	Symbol: \times (times)	Vocabulary: multiply, lots of, product
division	Symbol: \div (obelus)	Vocabulary: divide, split, share
quotient	the result of a division (dividend \div divisor = quotient)	
remainder	the amount left over when a divisor doesn't fit into a dividend evenly	

APPROXIMATION AND ESTIMATION	
rounding	writing a number less accurately so it is easier to work with below 5, stay the same, 5 or above, round up
decimal place	the position of a digit after the decimal point
money	when working in pounds (£) and pence, all answers should be given to 2 decimal places
significant figure	1 st significant figure: the first digit in a number which is not a zero
estimate a calculation	The process of rounding numbers to one significant figure and then calculating to get an approximate answer.
approximate	an answer close to the exact value

PERIMETER	
perimeter	the shortest distance around a shape, to calculate it you find the sum of its sides
rectangle perimeter	$P = (l+w) \times 2$ add the length and width, then multiply by 2
perimeter of a compound shape	find all the lengths around the outside of the shape and add them up

AREA	
area	the amount of space a 2D shape takes up
area of a rectangle	$A = bh$ Area = base x height 
area of a triangle	$A = \frac{bh}{2}$ Area = $\frac{\text{base} \times \text{height}}{2}$ 
area of a compound shape	work out the area of each shape, add together

Unit 3
2D Shape and Angle Geometry

UNITS	
metric units	an international system of units based on 10s, 100s and 1000s
metric length conversions	1cm = 10mm 1m = 100cm 1km = 1000m
metric mass conversions	1kg = 1000g 1 tonne = 1000kg
metric capacity conversions	1 litre = 1000ml

TYPES OF ANGLE	
angle	a measure of turn, units=degrees
acute angle	an angle less than 90°
right angle	90°
obtuse angle	an angle between 90° and 180°
straight line	180°
reflex angle	an angle between 180° and 360°
a full turn	360°

ANGLE RULES		
angles around a point	add to 360° (as they make a full turn)	
angles on a straight line	add to 180°	
vertically opposite angles	when two lines intersect, angles opposite each other are equal	
angles in a triangle	add to 180°	
angles in a quadrilateral	add to 360°	

TYPES OF TRIANGLE		
equilateral	3 equal sides 3 equal angles (60°)	
isosceles	2 equal sides 2 equal angles	
scalene	no equal sides no equal angles	
right angled	any triangle with a 90° angle can be scalene or isosceles	

GENERAL VOCABULARY		
vertex (vertices)	a point where two or more line segments meet, a corner	
polygon	a 2D shape with 3 or more straight sides	
regular polygon	a polygon with sides that are all equal and angles that are all equal	
parallel lines	lines with the same gradient they never meet they are always the same distance apart	
perpendicular lines	lines are perpendicular when they meet or intersect at a right angle (90°)	

PROPERTIES OF QUADRILATERALS		
square	four equal sides four right angles opposite sides parallel diagonals bisect each other at right angles four lines of symmetry rotational symmetry of order four	
rectangle	two pairs of equal sides four right angles opposite sides parallel diagonals bisect each other, not at right angles two lines of symmetry rotational symmetry of order two	
rhombus	four equal sides diagonally opposite angles are equal opposite sides parallel diagonals bisect each other at right angles two lines of symmetry rotational symmetry of order two	
parallelogram	two pairs of equal sides diagonally opposite angles are equal opposite sides parallel diagonals bisect each other, not at right angles no lines of symmetry rotational symmetry of order two	
kite	two pairs of adjacent sides of equal length one pair of diagonally opposite angles are equal (where different length sides meet) diagonals intersect at right angles, but do not bisect one line of symmetry no rotational symmetry	
trapezium	one pair of parallel sides no lines of symmetry no rotational symmetry special case: isosceles trapeziums have one line of symmetry	

Section 7	
Sikhi	Monotheistic religion founded in India by Guru Nanak in the 15 th century.
Mul Mantra	First verse of the Guru Granth Sahib (holy book) containing key teachings about God

Section 8			
Japji	Morning Sikh prayer, which involves the Mul Mantra.		
Haumai	Self-centredness; the source of evil according to Sikhi		
Sewa	Selfless service, of which there's three types.	Dhan	Material service (e.g. charity)
Man	Mental service (e.g. meditation at Gurdwara)	Tan	Physical service (e.g. nursing)

Section 9	
Extracts from Guru Granth Sahib	"There is only one God, His name is True. He is the Creator without fear, without hate."
	"Serving them, my body is purified"
	"He is the Cherisher of the poor"

Section 10	
The Fall	The story of Adam and Eve's disobedience of God told in Genesis and the Qur'an.
Genesis	First chapter of the Bible.
Human nature	What is common about all humans; Christians believe temptation is part of it.

Section 11	
Extracts from Genesis	"She took some of the fruit and ate it."
	"Her offspring will crush your head, and you will bite her offspring's heel."

Section 12	
Free will	The ability to act however we choose; Christians believe God gave this to mankind.
Salvation	Means 'to be saved'; Christians are moral and worship God to gain this in death.
Theologian	One who studies God and beliefs concerning God.

Section 13	
St Irenaeus	2 nd century theologian, claimed that God allows evil to test mankind's goodness.
St Augustine	5 th century theologian, claimed that God's loving gift of freedom is why evil exists, because this must include the freedom to disobey God, otherwise it's not freedom.

Section 1			
Omniscient	Belief that God is all-knowing.	Omnipotent	Belief that God is all-powerful.
Omnibenevolent	Belief that God is all-loving.		
Moral evil	Suffering that is man-made	Natural evil	Naturally occurring suffering

Section 2			
Problem of evil	The name for a particular atheist argument which suggests God does not exist because if He were omnipotent He would use power to prevent evil and if He were omnibenevolent He would want to prevent evil.	Inconsistent triad	
J. L. Mackie	Modern philosopher who supported the problem of evil argument against the existence of God.		

Section 3	
Karma	The results of your actions which affect your rebirth after death.
Dharma	One's duty in life; Hindus believe we share similarities, but we all have a unique dharma.
Samsara	Means 'to flow'; this means the cycle of birth, life and death in Hindu belief.
Moksha	The belief that with enough good karma, one's atman will be free from samsara and be one with Brahman.

Section 4	
Ahimsa	Hindu concept meaning 'non-violence'
Satyagraha	A term coined by Mahatma Gandhi, meaning 'hold onto truth' – Gandhi believed that it was moral to withstand evil with peace and love no matter the pressure.

Section 5			
Sin	Action that is against the will of God		
Hawwa	The Arabic for 'Eve', who with Adam were the first people to disobey Allah		
Jannah	Arabic for 'heaven'	Jahannam	Arabic for 'hell'

Section 6	
Extracts from Qur'an	"If the good outweighs the bad, even by one deed, the person goes to paradise."
	"Fight in the way of Allah, but do not transgress... Allah does not love transgressors."
Hadith (teaching of the Prophet)	"An Arab has no superiority to a non-Arab."

Unit 4 Fractions

FRACTIONS VOCABULARY	
fraction	represents the division of one integer by another, e.g. $\frac{2}{3} = 2 \div 3$
vinculum	the line in the middle of a fraction
numerator	the number above the vinculum in a fraction
denominator	the number below the vinculum in a fraction
unit fraction	a fraction where the numerator is 1, e.g. $\frac{1}{6}$
proper fraction	a fraction where the numerator is smaller than the denominator, e.g. $\frac{3}{5}$
improper fraction	a fraction when the numerator is greater than the denominator, e.g. $\frac{5}{3}$
reciprocal	the reciprocal of a number is 1 divided by the number, e.g. the reciprocal of x is $\frac{1}{x}$, the reciprocal of $\frac{3}{4}$ is $\frac{4}{3}$
mixed number	a number formed of both an integer part and a fractional part, e.g. $3\frac{2}{5}$
dividend	the amount to be divided up
divisor	the amount you are dividing by
quotient	the result of a division (Dividend \div divisor = quotient)
remainder	the amount left over when a divisor doesn't fit into a dividend exactly

FRACTIONS MANIPULATION	
equivalent fractions	fractions which represent the same value e.g. $\frac{2}{3}$ and $\frac{4}{6}$ multiply the numerator and denominator by the same amount
simplifying fractions	fractions can be simplified by dividing the numerator and denominator by a common factor to get a fraction in its simplest form, you must divide by the highest common factor (HCF)
mixed to improper	multiply the denominator by the whole number part, add this to the numerator
improper to mixed	divide the numerator by the denominator, the quotient is the whole number part, the remainder is then written as a fraction
fractions of amounts	divide by the denominator (bottom number) and multiply by the numerator (top number)

FRACTION NOTATION		
vinculum	$\frac{3}{5}$	numerator denominator

FRACTIONS: OPERATIONS		
add	you need a common denominator, then add the numerator	$\frac{A}{B} + \frac{C}{B} = \frac{A+C}{B}$
subtract	you need a common denominator, then add the numerator	$\frac{A}{B} - \frac{C}{B} = \frac{A-C}{B}$
addition and subtraction of mixed numbers	you need to convert mixed numbers into improper fractions with a common denominator, then add/subtract the numerators	
multiply	multiply the numerators multiply the denominators	$\frac{A}{B} \times \frac{C}{D} = \frac{AC}{BD}$
divide (KCF)	keep the first fraction change the \div to \times flip the second fraction, then multiply	$\frac{A}{B} \div \frac{C}{D} = \frac{A}{B} \times \frac{D}{C} = \frac{AD}{BC}$
multiply and divide mixed numbers	you need to convert mixed numbers into improper fractions, then use the methods for multiplying and division as above	

COMMON FDP CONVERSIONS		
fraction	decimal	percentage
$\frac{1}{2}$	0.5	50%
$\frac{1}{4}$	0.25	25%
$\frac{3}{4}$	0.75	75%
$\frac{1}{10}$	0.1	10%

COMPARING FRACTIONS	
proportion	an amount of a whole
comparing fractions	re-write the fractions with common denominators compare the numerators
comparing FDP	convert all to decimals write your answers as it was originally given in the question
ascending	putting in order going up
descending	putting in order going down
ordering fractions	re-write the fractions with common denominators compare the numerators to order them

Unit 5 Percentages

COMMON FDP CONVERSIONS		
fraction	decimal	percentage
1/2	0.5	50%
1/4	0.25	25%
3/4	0.75	75%
1/10	0.1	10%

COMMON PERCENTAGES	
percentage	parts per 100, symbol %
find 10%	divide by 10 (because $100\% \div 10 = 10\%$)
find 1%	divide by 100 (because $100\% \div 100 = 1\%$)
find 50%	divide by 2 (because $100\% \div 2 = 50\%$)
find 25%	divide by 4 (because $100\% \div 4 = 25\%$)
find 75%	add together 50% and 25%

FDP CONVERSIONS

Decimal $\xrightarrow{\times 100}$ Percentage
 Percentage $\xrightarrow{\div 100}$ Decimal

Percentage $\xrightarrow{\text{Write over 100 and simplify}}$ Fraction
 Fraction $\xrightarrow{\text{Use equivalent fractions to write with a denominator of 100}}$ Percentage

Fraction $\xrightarrow{\text{numerator} = \text{numerator} \div \text{denominator}}$ Decimal
 Decimal $\xrightarrow{\text{Use place value to write out of 10, 100, 1000... (then simplify)}}$ Fraction

KEY CONCEPTS	
percentages	out of 100
proportion	an amount of a whole can be fractions, decimals or percentages

PERCENTAGE CALCULATIONS	
multiplier	a percentage written as a decimal
percentage increase	adding a percentage to the original amount
percentage increase non-calc	find the percentage using box method, then add it on to the original amount
percentage increase calc	multiplier method: use 1. __ and multiply by original
percentage decrease	subtracting a percentage from the original amount
percentage decrease non-calc	find the percentage using box method, then subtract it from the original amount
percentage decrease calc	multiplier method: do 100 - % to give 0. __ and multiply by original

INTEREST	
principal	the starting amount
simple interest	the same amount is added each year 1. find the percentage 2. x by years 3. add on
compound interest	exponential growth, accumulated interest paid on the original amount, each year a larger amount of interest is paid. final total = principal x multiplier ⁿ principal = original / starting amount multiplier = % increase / decrease n = number of time periods (per annum = per year)

Section 7	
Contrasting	When one thing differs to another and they are compared.
Sanathan Dharman	The term used by many Hindus to refer to their faith; means 'eternal spiritual path'.

Section 8	
Orally	The mode of spoken communication; this is the way Hindu beliefs developed in ancient India as the written word was not accessible to most.
Aum	The symbol of Hinduism and sound of Brahman; often chanted during worship.
Bhagavad Gita	One of the holy texts of the Hindu faith.
Upanishads	One of the holy texts of the Hindu faith.

Section 9	
Brahman	The name given to the one, ultimate God in Hinduism.
deity	A term for a god; there are many different deities in the Hindu faith.
Trimurti	'Tri' means three and 'murti' means image, so this is the term for the three major Hindu gods: Brahma (the creator, Vishnu (the preserve) and Shiva (the destroyer)
murti	Means 'image'; these are the focal point of a Hindu shrine

Section 10	
Puja	Means 'worship'; the term used for Hindu worship.
Mandir	Hindu place of worship.
Arti	The name for the ceremony of worship which welcomes the deity to a shrine; the use of light is significant, hence the lamp used being known as the arti lamp.

Section 11	
Sewa	The belief that we have a duty to serve others and the deity selflessly.
Bhajan	Hindu songs of worship; literally means 'adoration'.
Kirtan	The chanting of mantras during puja, usually to the sound of music.
Mantra	A word, phrase or syllable repeated over and over to feel greater spirituality.

Section 12	
Karma	The results of your actions which affect your rebirth after death.
Atman	The soul which is non-physical and immortal.
Samsara	Means 'to flow'; this means the cycle of birth, life and death in Hindu belief.

Section 13	
Moksha	The belief that with enough good karma, one's atman will be free from samsara and be one with Brahman.
Caste	One's class or level in society based; this is decided by your karma gained in previous lives according to traditional Hindu thought.
Dalits	Those at the bottom of the caste system, commonly known as 'untouchables'.
Discrimination	Any act considered to treat someone unfairly because of who they are (e.g. race).

Section 1	
Explain	To make something clearer to someone by writing/speaking in more detail about it (e.g. its meaning, purpose, impact, etc)
Evidence	An example which supports a point made; in RE this is usually a quote from a religious text or a religious authority

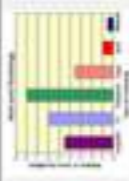

Section 2	
Belief	What people think is true.
Faith	To have belief(s) which are without evidence or without full evidence.
Value	A principle, rule, or idea which someone lives by.







Section 3	
Theism	Belief in the existence of God or gods.
Atheism	Belief that no God/gods exist.
Agnosticism	Belief that the existence of God/gods is uncertain; neither theist or atheist.
Humanism	A term for some atheists; Humanists believe that people can live moral, purposeful lives without the need to ascribe to a faith.

Section 4	
Ummah	Meaning 'Muslim community'; can be local, national or international.
Stewardship	Belief that humanity has a God-given responsibility to care for nature, the planet and the universe for it all is a gift from and creation of God.
Langar	A community kitchen/dining area found inside a Gurdwara (Sikh place of worship); free vegetarian food is offered as a gesture that all are welcome.

Section 5	
Heaven	An afterlife place or state of ultimate happiness; Christians, Jews and Muslims are taught that God has created this place for good souls.
Hell	An afterlife place or state of punishment or suffering; Christians, Jews and Muslims are taught that God has created this place for evil souls.
Reincarnation	The idea that all souls are reborn after death into another body; what body a soul is reborn into is based on the actions in that soul's last life.

Section 6	
Christian	A person who is part of, and follows the teachings/beliefs of, Christianity.
Muslim	A person who is part of, and follows the teachings/beliefs of, Islam.
Jew	A person who is part of, and follows the teachings/beliefs of, Judaism.
Sikh	A person who is part of, and follows the teachings/beliefs of, Sikhi.
Hindu	A person who is part of, and follows the teachings/beliefs of, Hinduism.
Buddhist	A person who is part of, and follows the teachings/beliefs of, Buddhism.

1.3 - Planning an Investigation	
Independent Variable	The one you change .
Dependent Variable	The one you measure .
Control Variables	The ones you keep the same to make it a fair test .
Method	Step by step instructions for an investigation.
Table	Left hand column = independent variable. Right hand column = dependent variable.
Repeat Readings	Take 3 sets of readings and calculate an average .
Calculating an Average	Add the values together and divide by how many values you have.
1.4 - Graphs	
Categoric Data	Data that is in words e.g. type of metal, colour.
Continuous Data	Data that is in numbers e.g. length, mass, time.
Bar Chart	Use if your independent variable is categoric . 
Line Graph	Use if your independent variable is continuous . 
X Axis	Horizontal axis – Plot the independent variable on here.
Y Axis	Vertical axis – Plot the dependent variable on here.
Anomaly (or Outlier)	A value that does not fit in with the pattern of the other results.
Line of Best Fit	Straight line with a ruler as close to as many points or a smooth curve . Ignore anomalies .

1.1 - Lab Equipment	
Mass Balance	Measures the mass of an object in grams .
Measuring Cylinder	Measures the volume of a liquid in ml or cm³ .
Thermometer	Measures temperature in °C .
Stopwatch	Measures time in minutes and seconds .
Pestle and Mortar	Crushes up substances.
Bunsen Burner	Heats substances. Burns natural gas (methane).
Tripod	Metal stand with three legs .
Gauze	Wire mesh – goes on top of tripod.
Conical Flask	Cone shaped container – holds liquids .
Pipette	Transfers small amounts of liquid .
1.2 - Hazard Symbols	
	Flammable - Sets on fire easily.
	Corrosive - Destroys living tissue such as skin and eyes .
	Toxic - Can cause death if swallowed or breathed in.
	Irritant - Causes skin irritation .
	Serious Health Hazard - Can cause serious health problems such as cancer and breathing difficulties .
	Environmental Hazard - Toxic to wildlife living in water .

2.1 - Living Organisms	Living things that are made of cells and carry out the seven life processes.
Organisms	Movement, Reproduction, Sensitivity, Nutrition, Excretion, Respiration, Growth. (MRS NERG)
Unicellular	Living organisms made from only one cell.
Multicellular	Living organisms made from many cells.
2.2 - Parts of the cell found in both plant and animal cells.	Controls the cell's activities. Contains genetic information (DNA).
Nucleus	Controls what enters and leaves the cell.
Cell Membrane	Jelly-like fluid where chemical reactions occur.
Cytoplasm	Where respiration occurs which releases energy for the cell.
2.3 - Parts of the cell found in only plant cells.	Supports and strengthens the cell.
Cell Wall	Where photosynthesis occurs which makes food for the plant. Contains a green chemical called chlorophyll which absorbs light.
Chloroplasts	Contains cell sap.
Vacuole	
2.4 - Specialised Cells	
Sperm Cell	Fertilise egg cells. Carry male DNA. Tail to help it swim. Many mitochondria. Enzymes in head. Half a set of DNA.
Egg Cell	Contains female DNA. Cytoplasm contains nutrients. Cell membrane only allows one sperm in. Half a set of DNA.
Red Blood Cell	Carry oxygen. No nucleus. Large surface area.
White Blood Cell	Fight infections caused by micro-organisms.
Cilia Cell	Tiny hairs to sweep mucus (containing bacteria) out of the airways.
Nerve Cell	Carry electrical signals. Long and branched at the ends.
Root Hair Cell	Absorbs water and minerals from the soil. Root hair projections provide a large surface area. No chloroplasts.
Palisade Cell	Found in leaves. Contains many chloroplasts for photosynthesis.

2.5 - Body Organisation	Basic building block of life.
Cell	Group of similar cells working together.
Tissue	Different tissues working together.
Organ	Different organs working together.
Organ System	Different organ systems working together.
2.6 - Respiration	
Respiration	Chemical reaction that occurs in all living organisms. Releases energy for movement, growth and warmth.
Aerobic Respiration	Requires oxygen glucose + oxygen → carbon dioxide + water (+ energy) Does not require oxygen – happens in muscle cells during exercise.
Anaerobic Respiration	glucose → lactic acid (+ energy) Lactic acid causes muscle cramps.
2.7 - Photosynthesis	
Photosynthesis	Produces food (glucose) for plants. Occurs in chloroplasts. carbon dioxide + water $\xrightarrow{\text{light energy}}$ glucose + oxygen
Chlorophyll	Green chemical which absorbs light energy needed for photosynthesis.
2.8 - Diffusion	
Concentration	Number of particles in a given volume.
Diffusion	Movement of particles from an area of higher concentration to an area of lower concentration.
Factors increasing the rate of diffusion into / out of cells.	Large surface area. Short distance e.g. thin cell walls Steep concentration gradient i.e. large difference between the higher and lower concentration.

Y7 Science Cycle 1 - Sheet 2

Cells & Life Processes

YEAR 7 GEOGRAPHY – CYCLE 3 – URBANISATION

BOX 1: URBANISATION KEYWORDS	cities, towns
urban area	countryside, villages
rural area	number of people in a place
population	moving from one area to another
migration	Increase in % of a country's population living in urban areas
urbanisation	urban area with population more than 10 million people
megacity	lots of people living in an area → crowded
densely populated	only a few people living in an area
sparsely populated	Gross Domestic Product → money (\$) made in country → in one year
GDP	Low Income Countries → poorest countries → e.g. Nepal
LIC	Newly Emerging Economies → getting richer → e.g. Brazil
NEE	High Income Countries → richest countries → e.g. The UK
HIC	number of live births (per 1,000 people) → high in LICs
birth rate	number of deaths (per 1,000 people) → high in LICs
death rate	average age that a person is likely to live to (in a particular place)
life expectancy	percentage of people who can read and write
literacy rate	to improve a place → e.g. better education, health care and jobs
development	sustainable development → does not harm planet for future people
sustainable	places and their connections e.g. road, rail, power supplies
infrastructure	
BOX 2: FACTORS AFFECTING THE RATE OF URBANISATION	
rural to urban	rural to urban migration → people moving from countryside to cities
push factors	people migrate from rural areas → negative reasons e.g. famine
pull factors	people migrate to urban areas → positive reasons e.g. better paid jobs
natural increase	young adults → start a family → birth rate higher than death rate
BOX 3: TYPES OF EMPLOYMENT → THE FOUR INDUSTRIAL SECTORS	
primary	getting raw materials from the land and sea e.g. farming → low pay
secondary	making products from raw materials e.g. car manufacturing
tertiary	service industries → e.g. doctors and teachers → higher pay
quaternary	ICT and research e.g. computer designers and scientists
BOX 4: RIO DE JANEIRO AND LONDON COMPARISON	
population	Rio de Janeiro (Brazil, S. America) 9 million people
reasons for population size	London (UK, Europe) 9 million people
GDP	• rural to urban migration • international migration • urbanisation speeding up • urbanisation slowing
life expectancy	NEE → \$1.9 trillion HIC → \$2.9 trillion
literacy rate	76 83
employment	97% 99%
	mostly secondary and tertiary mostly tertiary and quaternary

BOX 5: CHALLENGES IN RIO DE JANEIRO	
social	• squatter settlements (favelas) → e.g. Rocinha → no sewage system → poor sanitation → waterborne diseases → diarrhea
economic	• inequalities → some areas much poorer → power cuts → few employment opportunities in favelas → high levels of crime
environmental	• traffic congestion → roads very busy → lots of air pollution • litter and sewage problem → especially on the beaches/sea
BOX 6: OPPORTUNITIES IN RIO DE JANEIRO	
social	• 'Self-help Schemes' → provides locals with building materials → improve homes
economic	• 'Pacifying Police' → reduced crime in the favelas • transport systems extended → now includes the favelas → gives residents the opportunity to travel to work in the city center
environmental	• improved train system → less cars → reduce air pollution • ships fined for dumping waste into sea near Rio de Janeiro coast
BOX 7: CHALLENGES IN LONDON	
social	• education → in Newham (deprived area) → only 62% of children achieve 5 good GCSEs. Health → life expectancy in Kensington (less deprived area) → is 88 → compared to only 79 in Newham
economic	• urban deprivation → over 2 million people in London live in poverty → some areas suffer from dereliction e.g. graffiti and crime
environmental	• water deficit → London → not enough water to meet population demand → water is transferred from elsewhere in country • waste disposal → challenge → rising population
BOX 8: OPPORTUNITIES IN LONDON	
social	• sustainable urban living → Olympic Park transformed into sustainable housing → renamed East Village → rainwater used to flush toilets and allotments to reduce food miles
economic	• new train line → called Crossrail → will have space for extra 200 million passengers each year → reduce journey times to work
environmental	• urban greening → increasing parks in London e.g. the Olympic Park • 11,000 pay as you go bicycles → sustainable → reduces pollution
BOX 9: MIGRATION KEYWORDS	
economic migrant	when a person moves from one place to another for a better job
immigration	people entering a foreign country to live there
emigration	people leaving their own country to live in another country
refugee	forced to flee country due to danger → granted protection
asylum seeker	forced to flee country due to danger → waiting for protection

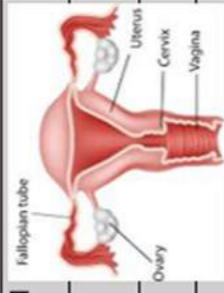
Section 7: Why did William win?		Section 8: How did William Conquer England?	
Conquer	To overcome and take control of a place or people by force.	Anglo Saxon rebellions	Uprisings against William I in York, Ely and Exeter
Norman Army	7000 soldiers who William brought to conquer England. 1000 cavalry, 2000 archers	Harrying of the North	William's response York rebellion. He massacred people, slaughtered animals, burnt crops, salted earth
Shield Wall	The Anglo-Saxon army made a shield wall by overlapping their shields in long rows	Stone keep castles	A much larger castle built with a stone tower with very thick walls. Strong defence against attacks.
Feigned retreat	Tactic of pretending to retreat so the enemy chases you and break their defensive position	Domesday book	Survey of all the property owned in England
		Norman Lords	Loyal Normans who William gave most of the land to
Section 9: Kingdom of Mali		Section 10: Mali and Sunjata Keita	
Oral history	Historical evidence which is spoken instead of written down	Sunjata Keita	First Mansa of the Kingdom of Mali from 1235-1255
Griot	Special caste of people whose job was to tell the stories of the Mali Kingdom, often using music.	Mandinka people	The people who lived in West Africa and united in the Kingdom of Mali
Islamic Scholars	Highly educated Muslim people from the Middle East whose job was to study and write books	Trade routes	Long roads which people travelled on to exchange goods
Mansa	The title given to the ruler of the Kingdom of Mali (equivalent to 'emperor' or 'king')	Taxation	A system where a leader takes money from <u>people</u> they rule <u>over</u>
Section 11: Mali and Mansa Musa		Section 12: Mongols and Tumujiin	
Catalan Atlas	A map of the world made in 1375 in Spain. It shows the land known to Europeans and includes pictures of important people and captions.	The Steppe	A huge area of Asia with an extreme climate where trees don't grow.
Mansa Musa	Famous ruler of Mali from 1312-1337	Nomadic	Because it was impossible to farm on the Steppe, the Mongols were nomadic (moved from place to place, hunting)
Hajj	Muslim pilgrimage to Makkah – Mansa Musa went on Hajj in 1324	Temujin	Birth name for Genghis Khan, ruler of the Mongols from 1162 who slaughtered tribes who did not obey him
Timbuktu	City which became a world-famous centre of wisdom and religion. Location of the famous Djingbuer Mosque.	Horses	Essential to the Mongols for their nomadic way of life and for war
Section 13: Mongols and Genghis Khan			
Genghis Khan	Title given to Tumujiin in 1206 after he took control of trade along the Silk Road. Genghis Khan means 'universal ruler'		
Yasa	The system of law used by the Mongols which everyone had to follow		
Pax Mongolica	Period of peace across the Mongol Empire		
Black Death	Deadly disease which travelled along the Silk Road		

3.1 - Animal Adaptations (Competing for food, space, mates and water)	
For the Arctic	Thick fur and fat layer for insulation, small ears to reduce heat loss, wide feet to stop sinking into snow.
For the desert	Little urine and sweat, long eyelashes, wide feet, some are nocturnal, camel's hump stores fat as food store.
For hunting prey	Sharp teeth and claws / talons, fast, eyes on front of head, camouflaged to sneak up on prey.
For avoiding predators	Good hearing, eyes on side of head, warning colours, camouflaged to hide from predators.
For movement	Streamlined bodies, strong muscles, webbed feet, long tail for balance, long legs.
3.2 - Plant Adaptations (Competing for light, water, space and minerals)	
For absorbing light	Broad flat leaves, may float on water.
For water	Spines to reduce water loss, swollen stems to store water and widespread roots to cover large area.
For insect pollination	Brightly coloured petals and sweet nectar.
For wind pollination	Anthers and stigma hang outside plant.
For seed dispersal	By animals – little hooks on fruit or sweet fruit. By air – parachutes or wings on seeds. By water – floating fruit.
3.3 - Food Chains and Webs	
Producers	Green plants or algae that produces their own food by photosynthesis.
Consumers	Animals that eat other organisms.
Decomposers	Fungi or bacteria that break down dead organisms.
Arrows	Show direction of energy transfer between organisms.
Interdependence	Living organisms depend on each other for food, shelter, pollination and seed dispersal.

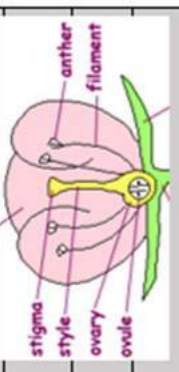
3.4 - Classification of Living Organisms	
Classification	Sorting organisms into groups with similar characteristics.
Levels of Classification	Kingdom, phylum, class, order, family, genus, species.
Carl Linnaeus	Scientist who developed the Linnaean classification system.
Five Kingdoms	Animals, plants, fungi, prokaryotes, protists.
Binomial Name	Latin name for an organism. First part is the genus, second part is the species. E.g. humans = <i>Homo sapiens</i> .
Vertebrates	Animals which have a backbone.
Invertebrates	Animals which do <u>not</u> have a backbone.
3.5 - Five Vertebrate Groups (MR FAB)	
Mammals	Covered in hair, give birth to live young, warm blooded, lungs for breathing in oxygen.
Reptiles	Covered in dry scales, lay eggs, cold blooded, lungs for breathing in oxygen.
Fish	Covered in scales, lay eggs, cold blooded, gills for absorbing oxygen from water.
Amphibians	Covered in moist skin, lay eggs, cold blooded, lungs and moist skin for taking in oxygen.
Birds	Covered in feathers, lay eggs, warm blooded, lungs for breathing in oxygen.

Y7 Science Cycle 3 - Sheet 3 Ecology

3.1 - Male Reproductive System	
Sperm Cell	Male gamete (sex cell).
Testes	Produces and stores sperm cells.
Sperm Duct	Carries sperm to the penis.
Glands	Add fluids to the sperm to make semen.
Urethra	Carries sperm and urine out of the penis.
Ejaculation	When sperm are released from the penis.
3.2 - Female Reproductive System	
Egg Cell (Ovum)	Female gamete (sex cell).
Ovaries	Stores egg cells. One egg cell is released every 28 days (ovulation).
Oviducts	Carry egg cells away from the ovary. Also called fallopian tubes.
Uterus	Where the baby grows for 9 months.
Vagina	Muscular tube. Penis enters here.
Cervix	Ring of muscle that holds the baby in place.
3.3 - Fertilisation and Pregnancy	
Fertilisation	The nucleus of a sperm cell fuses with the nucleus of an egg cell in the oviduct. Forms a zygote.
Zygote	Cell formed by fertilisation. Divides into more cells and forms an embryo.
Embryo	Ball of cells. Attaches to lining of uterus (implantation). Develops into fetus.
Fetus	Name given to an unborn baby after 8 weeks.
Placenta	Organ that allows oxygen and nutrients to diffuse from mother's to baby's blood. Also removes carbon dioxide from baby's blood.
Umbilical Cord	Connects placenta to the fetus.
Amniotic Sac	Filled with fluid. Acts as shock absorber to protect the fetus.



3.4 - Plant Reproductive Parts (found in a flower)	
Stamen	Male reproductive parts (anther and filament).
Anther	Produces pollen grains (male sex cell).
Filament	Holds up the anther.
Carpel	Female reproductive parts (ovary, stigma and style).
Ovary	Produces ovules (female sex cells).
Stigma	Collects pollen grains.
Style	Holds up the stigma.
3.5 - Pollination and Fertilisation in Plants	
Pollination	Transfer of pollen from an anther to a stigma. Pollen is spread by insects or wind.
Cross-Pollination	Pollen is spread between two different plants.
Self-Pollination	Pollen is spread between the male and female parts of the same plant.
Fertilisation	Nucleus of pollen grain fuses with nucleus of ovule. Happens in ovary. Forms seeds.
Seed Dispersal	Main methods: wind, animals, water and explosion.
Germination	When a seed starts to grow. This requires water, oxygen and warmth.



Y7 Science Cycle 2 - Sheet 3 Reproduction

Section 1: Time	
BCE	Before the common era – the number of years or centuries before the year in which Christians believed Jesus to have been born eg 100BCE
CE	Common era - The number of years or centuries after the year in which Christians believed Jesus to have been born eg 1066 CE
Medieval Period	The time period covering c450CE - c1500CE
Centuries	The name of the century is always one higher than the numbers at the start of the year. E.g. 2022 is in the 21 st century and 1066 is in the 11 th century
Section 3: Romans	
Roman Empire	A large area of Europe, the Middle East and North Africa ruled over by an emperor. It lasted from 753BCE –476CE
Anglo-Saxons	Tribes of Angles, Saxons, Jutes from mainland Europe who settled in England
Emperor Constantine	The Roman Emperor who made Christianity the official religion of England
Section 5 Claimants to the throne	
Claim to the throne	Reason given that a particular person should be the next King
Edward Confessor	King who died in January 1066 leaving no obvious heir to the throne
Harold Godwinson	Earl of Wessex who was chosen by the witan to be the king after Edward the Confessor
William Duke of Normandy	Duke of Normandy (in France) who claimed Edward had promised him the throne
Harald Hardrada	Viking leader, who had links to the English throne through the Danelaw
Section 2: Early settlers on British Isles	
Hunter-gatherers	People who rely on finding food and hunting wild animals to survive, rather than farming
Romans	People from the Roman Empire who ruled over Britain from 43CE- 401CE
migration	The movement of people from one area to another. This may be temporary or permanent and may be international or within a country.
Doggerland	A land bridge which once connected the British Isles to the rest of Europe
Section 4: Anglo-Saxons and Vikings	
Anglo-Saxon England	An area made up of seven separate kingdoms which competed for dominance
Alfred the Great	Anglo-Saxon King who united England under one King
Vikings	People from Norway, Denmark and Sweden who raided England – famed for wearing horned helmets (but they didn't!)
Danelaw	Area in the north of England ruled over by the Vikings 9 th century-11 th century
Section 6 Start of the Battle of Hastings	
Battle of Stamford Bridge	Battle between Hardrada and Godwinson won but then had to get his army south to Hastings
Battle of Hastings	Battle between Harold Godwinson and William Duke of Normandy for the English throne
Senlac Hill	Harold II placed his Anglo-Saxon army at the top of this hill.
Norman Preparation	William brought 7000 men, set up camp at Hastings, raided villages and built a castle

¿Qué vas a hacer este fin de semana? (What are you going to do this weekend?) [What you are going to do this end of week?]			
Time phrase	Verb	Infinitive verb phrase	Prepositional phrase
Este fin de semana (This weekend) [This end of week]	voy a (I am going to)	salir (to go out)	con mis amigos (with my friends)
	no voy a (I am not going to)	ir al cine (to go to the cinema)	con mi familia (with my family)
	vamos a (we are going to)	ir al parque (to go to the park)	con mi mejor amigo/a (with my best friend)
	no vamos a (we are not going to)	ir a la cafetería (to go to the café)	con mis hermanos (with my siblings)
	*me gustaría (I would like) [me it would please]	ir a la bolera (to go to the bowling alley)	con mis primos (with my cousins)
	*no me gustaría (I wouldn't like) [not me it would please]	ir a la playa (to go to the beach)	
		ir de paseo (to go for a walk)	
		ir de compras (to go shopping)	
		nadar en la piscina (to swim in the swimming pool)	

1.1 - The Periodic Table

Periodic Table	Contains information about 118 elements , arranged in order of atomic number .		
Groups	The vertical columns .		
Periods	The horizontal rows .		
Alkali Metals	Group 1 elements . Very reactive, soft and dull .		
Halogens	Group 7 elements .		
Noble Gases	Group 0 elements . Very unreactive.		
Transition Metals	Found in the middle block .		

1.2 - Chemical Symbols of Elements

C	carbon	He	helium	N	nitrogen
H	hydrogen	F	fluorine	S	sulphur
O	oxygen	Cl	chlorine	Be	beryllium
Li	lithium	Br	bromine	Cu	copper
Na	sodium	Mg	magnesium	Fe	iron
K	potassium	Ca	calcium	Ne	neon

1.3 - Properties of Metals and Non-Metals

Properties	Metals	Non-Metals
Periodic Table	Left hand side	Right hand side
Do they conduct?	Conductors of heat and electricity	Insulators of heat and electricity
Appearance	Shiny (when polished)	Dull
Density	High density (heavy for their size)	Low density (light for their size)
Mechanical Properties	Malleable (can be bent or hammered into shape) Ductile (can be pulled into wires)	Brittle (breaks easily)
Sonorous?	Sonorous (makes a ringing sound when hit)	Not sonorous

1.4 - Elements, Compounds and Mixtures



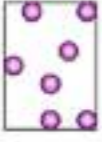
Element	Substance made up of only one type of atom .
Compound	Substance that contains atoms of two or more types of atom, chemically joined together .
Mixture	Two or more substances mixed together but not chemically joined .
Chemical Reaction	A change in which atoms are rearranged and new substances are made. Often irreversible .
Physical Change	A change in which no new substances are made. E.g. changes of state . Often reversible .
Naming compounds	Rule 1: Use for metal + non-metal . Metal goes first , then non-metal changes ending to -ide . E.g. iron + sulphur → iron sulphide
	Rule 2: Use for metal + non-metal + oxygen . Metal goes first , then non-metal changes ending to -ate . E.g. copper + sulphur + oxygen → copper sulphate

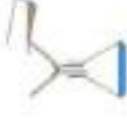



1.5 - Chemical Formulae of Substances

H₂O	water	H₂	hydrogen	C₆H₁₂O₆	glucose
CO₂	carbon dioxide	Cl₂	chlorine	NH₃	ammonia
O₂	oxygen	CH₄	methane	NaCl	sodium chloride
N₂	nitrogen	CO	carbon monoxide	CuSO₄	copper sulphate

Y7 Science Cycle 3 - Sheet 1

Atoms, Elements & Periodic Table

1.1 - States of Matter	
Solids	Particles are close together and regularly arranged. Particles vibrate around fixed positions. Strong forces between particles. 
Liquids	Fixed shape. Fixed volume. Cannot flow. Cannot be compressed. High density. Particles are close together and randomly arranged. Particles move around each other. Weak forces between particles. 
Gases	No fixed shape. Fixed Volume. Can flow. Cannot be compressed. Medium density. Particles are far apart and randomly arranged. Particles move quickly in all directions. No forces between particles. 
1.2 - Changes of State	
Melting	When a solid is heated and turns into a liquid.
Boiling / Evaporating	When a liquid is heated and turns into a gas.
Condensing	When a gas is cooled and turns into a liquid.
Freezing	When a liquid is cooled and turns into a solid.
Subliming	When a solid is heated and turns into a gas.
Melting Point	Temperature at which a substance melts when heated or freezes when cooled. (MP of ice = 0°C)
Boiling Point	Temperature at which a substance boils when heated or condenses when cooled. (BP of water = 100 °C)

1.3 - Solutions	
Solution	A mixture formed when a solute dissolves in a solvent.
Solvent	The liquid part of a solution e.g. water, ethanol.
Solute	The substance dissolved in the solvent e.g. sugar, salt, carbon dioxide, copper sulphate.
Soluble	Will dissolve in a solvent e.g. sugar in water.
Insoluble	Will not dissolve in a solvent e.g. sand in water.
Saturated Solution	A solution that contains the maximum amount of solute that can be dissolved at that particular temperature.
1.4 - Separating Mixtures	
Filtration	Separates an insoluble solid from a mixture. E.g. sand from water. 
Evaporation	Pour mixture through filter paper in a funnel. Collect filtrate in a conical flask. Residue collects in paper. Separates a soluble solid from a solution e.g. salt from water. 
Distillation	Heat the mixture. Liquid evaporates. Solid forms crystals. Separates a liquid from a solution e.g. water from a salt solution or a mixture of liquids. e.g. ink Heat the mixture in a round bottom flask. Liquid evaporates and rises, then cools and condenses in the condenser. Collect the distillate. 
Chromatography	Separates a mixture of coloured dyes. Draw a start line in pencil on filter paper. Put a dot of the sample on the line. Dip paper in a solvent. 

Y7 Science Cycle 2 - Sheet 1 Particles and Solutions

¿Qué vas a hacer este fin de semana? (What are you going to do this weekend?) [What you are going to do this end of week?]		
Time phrase	Verb	Infinitive verb phrase
Este fin de semana (This weekend) [This end of week]	voy a (I am going to)	salir (to go out) ir al cine (to go to the cinema) ir al parque (to go to the park) ir a la cafetería (to go to the café) ir a la bolera (to go to the bowling alley)
	no voy a (I am not going to)	ir a la playa (to go to the beach)
	vamos a (we are going to)	
	no vamos a (we are not going to)	
	*me gustaría (I would like) [me it would please]	ir de paseo (to go for a walk) ir de compras (to go shopping) nadar en la piscina (to swim in the swimming pool)
	*no me gustaría (I wouldn't like) [not me it would please]	
		Prepositional phrase
		con mis amigos (with my friends) con mi familia (with my family) con mi mejor amigo/a (with my best friend) con mis hermanos (with my siblings) con mis primos (with my cousins)

¿Qué hay en tu ciudad o tu pueblo? What is there in your city or town? [What there is in your city or your town?]					
Introductory phrase	article	noun (place)	"and"	article	noun (place)
En mi ciudad hay (in my city there is / there are)	un (a) - M	castillo (castle) (super)mercado ([super] market) estadio (stadium) centro comercial (shopping centre) polideportivo (sports centre)	y (and)	unos (some) – M muchos (lots of) – M	parques (parks) museos (museums) cines (cinema) restaurantes (restaurants)
En mi pueblo no hay (in my town there isn't / aren't)	una (a) - F	piscina (swimming pool) universidad (university) bolera (bowling alley) playa (beach)		unas (some) – F muchas (lots of) - F	tiendas (shops) plazas (squares) iglesias (churches) mezquitas (mosques)
		castillo (castle) (super)mercado ([super] market) estadio (stadium) centro comercial (shopping centre) polideportivo (sports centre)	y (and)	muchos (lots of) – M	parques (parks) museos (museums) cines (cinema) restaurantes (restaurants)

NB: when we use the phrase "en mi ciudad / en mi pueblo no hay we don't use the article 'una / un or unos / unas' after



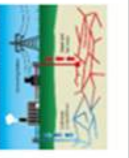




2.1 - Acids, Alkalis and Indicators	
Acid	A solution with a pH lower than 7.
Alkali	A solution with a pH higher than 7.
Neutral	A solution with a pH of exactly 7.
pH Scale	A scale from 0 to 14 that is used to measure how acidic or alkaline a solution is.
Indicator	A chemical that changes colour to show whether a solution is acidic, alkaline or neutral.
Universal Indicator	A dark green indicator that changes a wide range of colours depending on the pH.
Red Litmus Paper	An indicator paper that turns blue in alkali.
Blue Litmus Paper	An indicator paper that turns red in acid.
pH Probe and Meter	Used to measure pH electronically. More accurate than an indicator.

2.2 - The pH Scale			
pH	Substance	Colour with Universal Indicator	Everyday Examples
0-3	Strong Acid	Red or Orange	Stomach acid, battery acid, lemon juice, vinegar.
4-6	Weak Acid	Orange or Yellow	Tomatoes, bananas, coffee, acid rain.
7	Neutral	Green	Water
8-10	Weak Alkali	Blue	Toothpaste, washing up liquid, baking soda.
11-14	Strong Alkali	Dark Blue or Purple	Oven cleaner, drain cleaner, bleach.

2.3 - Common Laboratory Acids and Bases	
Acids	hydrochloric acid - HCl
	sulphuric acid - H ₂ SO ₄
	nitric acid - HNO ₃
Bases	metal hydroxides e.g. sodium hydroxide - NaOH
	metal oxides e.g. magnesium oxide - MgO
	metal carbonates e.g. calcium carbonate - CaCO ₃

2.4 - Neutralisation Reactions	
Base	A substance that will neutralize an acid. (Soluble bases are known as alkalis.)
Neutralisation	A reaction between an acid and an alkali/base which forms a neutral solution.
Neutralisation Word Equations	metal hydroxide + acid → salt + water metal oxide + acid → salt + water metal carbonate + acid → salt + water + carbon dioxide
Rules for Naming the Salt	1. First part comes from the metal in the base. 2. Second part comes from the acid. hydrochloric acid → chloride nitric acid → nitrate sulphuric acid → sulphate
Test for Carbon Dioxide Gas	Bubble the gas through limewater – it will turn cloudy.
Making Salt Crystals	1. Add the base to the acid until no more will react. 2. Filter the mixture to remove any unreacted base. 3. Heat gently to evaporate some of the water then leave to crystallise.

Year 7 Science Cycle 3 – Sheet 2 Acids & Alkalis

2.5 - Renewable Energy Resources - Will not run out.	
Wind Turbines 	Wind spins turbine blades. Pros – No pollution. Cons – Spoils landscape, only works when windy, noisy.
Solar Cells 	Light hits solar cells and generates electricity. Pros – No pollution. Cons – Only works when sunny.
Geothermal 	Hot rocks underground heat water to form steam, which turns turbines. Pros – No pollution. Cons – Not many places are suitable.
Tidal 	Water flows through turbines in an estuary as the tides go in and out. Pros – No pollution. Cons – Costly to set up. May affect wildlife.
Wave 	Waves in the sea turn a turbine. Pros – No pollution. Cons – Costly to set up.
Hydroelectric 	Water falls down and turns turbines in a dam. Pros – No pollution. Cons – Costly to set up. Can cause flooding and destroy habitats.
Biofuels 	Burning crops or animal waste in a power station. Pros – Carbon neutral. Cons – Crops need to be grown which takes up a lot of land. Crops could be used to feed people instead.

Y7 Science Cycle 2 - Sheet 2

Energy

2.1 - Energy Stores – Objects with energy in this store.	
Kinetic	All moving objects.
Gravitational Potential	All objects. The higher the object is lifted up, the greater the energy.
Thermal	All objects. The hotter the object, the greater the energy.
Elastic Potential	Anything that has been stretched or squashed and will return to its original shape.
Chemical	Anything that can release energy by a chemical reaction. e.g. food, fuels, batteries.
2.2 - Energy Transfer Pathways	
Mechanically	When a force acts.
Electrically	When an electrical current moves.
By Heating	When energy is transferred from a hotter to a colder object.
By Radiation	By sound or light waves.
2.3 – Energy Conservation & Efficiency	
Law of Conservation of Energy	Energy cannot be created or destroyed. It can only be transferred from one store to another.
Efficiency	A measure of how good an appliance is at transferring energy usefully. A percentage between 0% and 100%.
Efficiency Equation	$\text{Efficiency} = \frac{\text{Useful energy out}}{\text{Total energy in}} \times 100\%$
2.4 - Non-Renewable Energy Resources – Limited supply and will run out.	
Fossil Fuels (Coal, oil and gas)	Fuels are burnt to heat water which makes steam. Steam turns a turbine which turns a generator. Pros – Releases lots of energy, reliable. Cons – Releases carbon dioxide which causes global warming.
Nuclear (Plutonium and Uranium)	Nuclear reactions release energy to heat water which makes steam. Steam turns a turbine which turns a generator. Pros – Releases lots of energy, reliable. Cons – Produces dangerous radioactive waste.

¿Cómo es tu casa o tu piso? (What is your house or your flat like?) [How is your house or flat?] ¿Dónde está? (Where is it?) [Where is it?]						
Verb	Noun	Adjective	“and”	Verb	Location	
Vivo en (I live in)	una casa (a house)	pequeña (small)	y (and)	está (it is located)	en la montaña (in the mountains)	
Vivimos en (We live in)		grande (big)			bonita (pretty)	en un pueblo (in a town)
Antes, vivía en (Before, I used to live in)	un piso (a flat)	fea (ugly)			moderna (modern)	en una ciudad (in a city)
Antes, vivíamos en (Before, we used to live in)		antigua (old)			cómoda (comfortable)	en la costa (on the coast)
		pequeño (small)		estaba (it was located)	en el campo (in the countryside)	
		grande (big)			en el desierto (in the desert)	
		bonito (pretty)			en el bosque (in the woods)	
		feo (ugly)				
		moderno (modern)				
		antiguo (old)				
		cómodo (comfortable)				

¿Qué hay en tu ciudad o tu pueblo? (What is there in your city or town?) [What there is in your city or your town?]					
Introductory phrase	Article	Noun (Place)	“and”	Article	
En mi ciudad (no) hay In my city there is / are (not)	un (a) - M	castillo (castle)	y (and)	unos (some) – M	parques (parks)
		(super)mercado ([super] market)			
estadio (stadium)	cines (cinema)				
centro comercial (shopping centre) [centre commercial]	restaurants (restaurants)				
En mi pueblo (no) hay In my town there is / are (not)	una (a) – F	polideportivo (sports centre)		muchos (lots of) - M	
		piscina (swimming pool)	un (some) – F		tiendas (shops)
		universidad (university)	muchas (lots of) - F		plazas (squares)
		bolera (bowling alley)			iglesias (churches)
		playa (beach)			mezquitas (mosques)

¿Cómo es? (What does he/she look like?) [How it is?]						
STAR phrase	Noun	Verb	Adverb	Adjective	"and"	Adjective
*Diría que (I would say that)	mi hermanastro (my step-brother)	es (he/ she is)	sumamente (really)	delgado (slim)	y (and)	guapo (good-looking)
	mi padre de acogida (my foster dad) [my dad of welcome]		muy (very)	gordo (fat)		feo (ugly)
	mi mejor amiga (my best friend F)		bastante (quite)	alto (tall)		joven (young)
mi madre (my mum)			un poco (a bit)	delgada (slim)		viejo (old)
				delgada (slim)		guapa (good-looking)
				gorda (fat)		fea (ugly)
				alta (tall)		joven (young)
				baja (short)		vieja (old)
						tiene (he/she has)
						pecas (freckles)
						bigote (a moustache)
						barba (a beard)

¿Cómo es tu casa o tu piso? (What is your house or your flat like?) [How is your house or flat?]
 ¿Dónde está? (Where is it?) [Where it is?]

Verb	Noun	Adjective	"and"	Verb	Location
Vivo en (I live in) Vivimos en (We live in)	una casa (a house)	pequeña (small) grande (big) bonita (pretty) fea (ugly) moderna (modern) antigua (old) cómoda (comfortable)	y (and)	está (it is located)	en la montaña (in the mountains) en un pueblo (in a town) en una ciudad (in a city) en la costa (on the coast) en el campo (in the countryside)
Antes, vivía en (Before, I used to live in) Antes, vivíamos en (Before, we used to live in)	un piso (a flat)	pequeño (small) grande (big) bonito (pretty) feo (ugly) moderno (modern) antiguo (old) cómodo (comfortable)		estaba (it was located)	en el desierto (in the desert) en el bosque (in the woods)

3.4 - The Solar System & Beyond	
Solar System	Made up of 8 planets which orbit the Sun.
Planets (Closest to furthest from Sun)	Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.
Pluto	Reclassified as a dwarf planet.
Sun	The star in the middle of our solar system.
Moon	A natural satellite that orbits a planet.
Galaxy	A collection of billions of stars.
Milky Way	Name of the galaxy that our Sun is in.
Proxima Centauri	Nearest star to our Sun. 4 light years away.
Andromeda	Nearest galaxy to the Milky Way galaxy.
Light Year	The distance light travels in one year.
Universe	Everything in space – made up of billions of galaxies.
3.5 - The Earth	
Day	Length of time a planet takes to make one full spin on its axis.
Length of Earth Day	24 hours
Daytime in the UK	When the UK faces towards the Sun.
Night-time in the UK	When the UK faces away from the Sun.
Year	Length of time a planet takes to orbit the Sun.
Length of Earth Year	365.25 days
Leap Years	Occur every 4 years. February has an extra day.
Summer in UK	When the northern hemisphere is tilted towards the sun. Sun's rays more concentrated. Sun high in sky.
Winter in UK	When the northern hemisphere is tilted away from the sun. Sun's rays less concentrated. Sun low in sky.

3.1 - Forces Introduction	
What is a force?	A push, pull or a twist.
What can a force do?	Change the speed, direction or shape of an object.
Units for Force	Newtons (unit symbol = N)
Measuring Force	Use a Newton meter (also called a force meter).
3.2 - Different Forces	
Friction	Acts between two surfaces rubbing together. Acts in the opposite direction to movement.
Air Resistance	Acts on all objects moving through air. Acts in the opposite direction to movement.
Weight or Gravitational Force	Force caused by gravity. Pulls all objects towards the centre of the Earth.
Upthrust	Acts upwards on floating objects.
Driving Force or Thrust	Force produced by an engine, which moves objects.
Support Force	Acts upwards on objects resting on solid surfaces e.g. the ground.
Water Resistance	Acts on all objects moving through water. Acts in the opposite direction to movement.
Tension	Pulling force in ropes and cables.
3.3 - Effects of Forces	
Resultant Force	Overall force acting on an object.
Stationary	Not moving (still).
Balanced Forces	Resultant force is zero. Forces cancel out. Cause no change in motion.
Unbalanced Forces	Resultant force is not zero. Forces do not cancel out. Cause a change in motion.
Interaction Pairs of Forces	Forces come in pairs that: <ul style="list-style-type: none"> - Are the same size. - Act in opposite directions. - Act on two different objects.

French Knowledge Navigator				
Quel temps fait-il? (What is the weather like)				
Where	Country / City	Verb	Weather	Adverb
En (In)	France	il neige (its snowing) il pleut (its raining)		partout (everywhere) toujours (always / still) malheureusement (unfortunately) aujourd'hui (today)
À (in)	Angleterre (England)	il y a	du soleil (its sunny) du vent (its windy) du brouillard (its foggy)	
Dans le nord de la / l' (in the north of)	Paris			
Dans le sud de la / l' (in the south of)	Londres (London)			
Dans l'est de la / l' (in the east of)	Liverpool Bordeaux			
Dans l'ouest de la / l' (in the west of)	Nice	il fait	chaud (its hot) froid (its cold) beau (its nice) mauvais (its bad) nuageux (its cloudy)	

Quel temps fait-il? (What is the weather like)				
Where	Country / City	Verb	Weather	Adverb
En (In)	France	il neige (its snowing) il pleut (its raining)		partout (everywhere) toujours (always / still) malheureusement (unfortunately) aujourd'hui (today)
À (in)	Angleterre (England)	il y a	du soleil (its sunny) du vent (its windy) du brouillard (its foggy)	
Dans le nord de la / l' (in the north of)	Paris			
Dans le sud de la / l' (in the south of)	Londres (London)			
Dans l'est de la / l' (in the east of)	Liverpool Bordeaux			
Dans l'ouest de la / l' (in the west of)	Nice	il fait	chaud (its hot) froid (its cold) beau (its nice) mauvais (its bad) nuageux (its cloudy)	

¿Cuántas años tiene? (How old is he/she/they?) [How many years he/she has?]				
Noun	Verb	Number	"Year/Years"	
Mi madrastra (My stepmum)	tiene (he/she has)	un (1)	año (year)	
Mi hermano menor (My younger brother) [My brother younger]		dos (2)	dieciséis (16)	
Mi tía (My aunt)		tres (3)	diecisiete (17)	
Mi sobrino (My nephew)	tienen (they have)	cuatro (4) cinco (5)	dieciocho (18)	
Mis padres (My parents / My dads) Mis madres (My mums) Mis primos (My cousins)		seis (6)	diecinueve (19)	
		siete (7) ocho (8)	veinte (20)	
		nueve (9)	veintiuno (21)	
		diez (10)	treinta (30)	
		once (11)	treinta y tres (33)	
		doce (12)	cuarenta (40)	
		trece (13)	cuarenta y cinco (45)	
		catorce (14)	cincuenta (50)	
		quince (15)	cincuenta y dos (52)	
			sesenta (60)	
			setenta (70)	
				años (years)

¿De qué color son los ojos? (What colour eyes does he/she have?) [Of what colour are the eyes?]						
¿Cómo tiene el pelo? (What is his/her hair like?) [How he/she has the hair?]						
Noun	Verb	Noun	Adjective	"and"	Verb	Noun
Mi madre (My mum)	tiene (he/she has)	el pelo [the hair]	rubio (blonde) negro (black) castaño (brown) largo (long) corto (short) liso (straight) rizado (curly)	y (and)	lleva (he/she wears)	gafas (glasses) trenzas (braids) velo (a headscarf)
Mi hermana mayor (My older sister) [My sister older]			verdes (green) [greens] azules (blue) [blues] marrones (brown) [browns] grises (grey) [greys]			
Mi tío (My uncle)			los ojos [the eyes]			
Mi abuelo (My granddad)	es (he/she is)	calvo/a (bald) pelirrojo/a (ginger-haired)				

Spanish Knowledge Navigator

¿Cómo estás? (How are you?) [How you are?] ¿Qué tal? (How are you?) [What such?]	
Verb phrase	Reason
Estoy bien porque (I am doing well because) [I am well because]	estoy en forma (I am in shape) he comido muy bien (I have eaten very well) el fin de semana, ¡lo pasé bomba! (I had a great weekend!) [the end of week, it I passed bomb] dormí bien (I slept well) me acosté con las gallinas (I went to bed early) [myself I went to bed with the chickens]
Estoy mal porque (I am doing badly because) [I am badly because]	podría ser mejor (it could be better) estoy enfermo/enferma (I am in ill) el fin de semana, ¡lo pasé muy mal! (I had a very bad weekend!) [the end of week, it I passed badly] me duele la cabeza (I have a headache) [myself it hurts the head] me duele la garganta (I have a sore throat) [myself it hurts the throat] estoy agotado/a (I am exhausted) no tengo dinero (I don't have any money) [not I have money]

¿Cuántas personas hay en tu familia? (How many people are there in your family?) [How many people there are in your family?]

Introductory sentence	Verb	Noun	"and"	Noun	"and me"
En mi familia hay ____ personas. (In my family there are ____ people).	Somos (We are)	mi madre (my mum) mi padrastro (my step-dad) mi hermano mayor (my older brother) [my brother older] mi abuelo (my grand-dad) mi tío (my uncle) mi prima (my cousin F)	y (and)	mi padre (my dad) mi madrastra (my step-mum) mi hermana menor (my younger sister) [my sister younger] mi hermanastro (my step-brother) mi abuela (my grand-mother) mi tía (my aunt) mi sobrina (my niece)	y yo. (and me.)

Noun	Verb	Name	"and"	Verb	Alphabet
Mi madre (My mum)	se llama (is called)	Ana	y (and)	se escribe (it is spelt) [itself it writes]	A-N-A (ah, eneh, ah)
Mi padrastro (My stepdad)	[himself/herself calls]	Fuad			F-U-A-D (efeh, oo, ah, akeh)
Mi sobrino (My nephew)		Jorge			J-O-R-G-E (hota, oh, ereh, heh, eh)

French Knowledge Navigator

Quels sports tu joues?	
Verb	Sport
Je joue (I play)	au foot (football) au golf (golf)
Nous jouons (we play)	au hockey (hockey) au rugby (rugby)
Il joue (he plays)	au basket (basketball)
Elle joue (she plays)	au volley (volleyball) au tennis (tennis)
Ils / elles jouent (they play)	au tennis de table (table tennis)

Le temps et les sports (weather and sports)

When / if	Weather	Verb	Sport	Location	With ...
Quand (when)	il fait froid (its cold)	je joue (I play)	au foot (football)	dans le parc (in the park)	avec ma soeur (with my sister)
	il fait chaud (its hot)		au golf (golf)		avec mon frère (with my brother)
S' (if)	il fait beau (its nice)	je ne joue pas (I don't play)	au hockey (hockey)	dans le gymnase (in the gym)	avec mon prof (with my teacher)
	il fait mauvais (its bad)		au rugby (rugby)		
	il pleut (its raining)	nous jouons (we play)	au basket (basketball)	dans le jardin (in the garden)	
	il neige (its snowing)	nous ne jouons pas (we don't play)	au volley (volleyball)		
	il y a du soleil (its sunny)		au tennis (tennis)		
	il y du vent (its windy)		au tennis de table (table tennis)		
	il y a du brouil-				

Quels sports tu joues / jouais / voudrais jouer?					
Time phrase	Verb	Sport	Connective	Verb	Adjective
Maintenant (now)	Je joue (I play)	au foot (football)		c'est (it is)	facile (easy)
Quand j'étais plus jeune (When I was younger)	Je jouais (I used to play)	au golf (golf)	car (because)	c'était (it was)	ennuyeux (boring)
Si j'avais le choix (If I had the choice)	Je jouerais (I would play)	au hockey (hockey)			nul (rubbish)
	je voudrais jouer (I would like to play)	au rugby (rugby)	mais (but)	ce serait (it would be)	difficile (difficult)
		au basket (basketball)			exaltant (exciting)
		au volley (volleyball)			fatigant (tiring)
		au tennis (tennis)			

Qu'est-ce qu'il y a dans ta ville? (what is there in your town?)

Location	Verb	Places
En ville (In town)	il y a (there is)	une piscine (a swimming pool) une banque (a bank) une poste (a post office) une bibliothèque (a library) une musée (a museum) une patinoire (an ice rink) une église (a church) une mosquée (a mosque)
Dans ma ville (In my town)		
À Liverpool (In Liverpool)	il n'y a pas de / d' (there is not)	un parking (a car park) un centre commercial (a shopping centre) un bowling (a bowling alley) un camping (a campsite) un centre sportif (a sports centre) un château (a castle) un hôpital (a hospital) un hôtel (a hotel) un parc (a park) un magasin (a shop) un restaurant (a restaurant)
En Angleterre (In England)		

French Knowledge Navigator

Location	Verb	Places	Adjective
En ville (In town)	il y a (there is)	une piscine (a swimming pool) une banque (a bank) une poste (a post office) une bibliothèque (a library) une musée (a museum) une patinoire (an ice rink) une église (a church) une mosquée (a mosque)	grand(e) (big) petit(e) (small) nul (rubbish) intéressant(e) (interesting) ennuyeux (-se) (boring) énorme (enormous) moderne (modern) cher (expensive) amusant(e) (fun) utile (useful)
Dans ma ville (In my town)			
À Liverpool (In Liverpool)	il n'y a pas de / d' (there is not)	un parking (a car park) un centre commercial (a shopping centre) un bowling (a bowling alley) un camping (a campsite) un centre sportif (a sports centre) un château (a castle) un hôpital (a hospital) un hôtel (a hotel) un parc (a park) un magasin (a shop) un restaurant (a restaurant) un supermarché (a supermarket) un théâtre (a theatre)	ennuyeux (-se) (boring) énorme (enormous) moderne (modern) cher (expensive) amusant(e) (fun) utile (useful)
En Angleterre (In England)			