

Year 7 Knowledge Organiser Term 1

2024

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Knowledge Organiser

Haggerston School



# Dale Chihuly 1941

Since the late 1960s, Dale Chihuly has been using the art and craft of glassblowing to create dynamic, flamboyant and colour-saturated forms. His artworks can be found across the U.S. and worldwide, and they range from undulating, nested vessels to whimsical sea creatures, also encompassing architectural installations. In the UK Chihuly has large scale installations at Kew Gardens and the Victoria and Albert Museum. Chihuly has up to 18 people working on his sculptures at a time, and draws inspiration from architecture and design, painters and sculptors, Native American baskets, and nature. People often have emotional reactions to

"I love to go to the ocean and walk along the beach. If you work with hot glass and its natural properties, it begins to look like something that came from the sea."

Dale Chihuly's sculptures



Sea creatures





Word bank: line, colour, shape, form, 3D, glass, sculpture, translucent, organic, installation, outline, composition.





#### **Self Quiz:**

- 1. Can you write a brief paragraph describing how the work of Dale Chihuly makes you feel using key art terms?
- What do you think inspired these works of art?
- 3. Can you write a summary of Dale Chihuly's biography?
- 4. What material does Chihuly use to create his sculptures?

#### Practical application of art history:

- 1. Create a drawing of a value (tonal) scale. Can you use tone to create a drawing of one of the sea creatures?
- 2. Recreate one of Chihuly's sculptures using a pen can you show different tones and complex detail by using mark making techniques?
- 3. Recreate Chihuly's work using only outlines of the shapes.
- 4. Design a Chihuly-inspired sculpture of your own using the sea creatures as your starting point. Write a sentence explaining where you would like your public sculpture to be displayed and why.
- 5. Write in full sentences WWW and EBI.

#### YR7 Computing: E-Safety and Flowcharts



Advanced: Digital footprint is a trail of data you create while using the Internet like websites you visit, emails you send, messages / pictures you post.

Once you do something online it is **there forever**. In the future this could be seen by your friends, employers, or by the colleges and universities you apply to **THINK BEFORE YOU POST** 

Basic: Symbol	Name	Meaning
Basic. Symbol	ivaille	Represents the
	Start / End	start or end of a flowchart
<b>→</b>	Connector	Connects the shapes and shows how data moves
$\Diamond$	Decision	Shows where a decision or choice takes place
	Process	A command or calculation
	Input / Output	Collects data from the user or outputs on the screen
		Links to another Flowchart that
	Subroutine	carries out a specific task
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Basic: Viruses are a type of malware

(MALicious + softWARE)

They are programs that can **attack** computers and phones. A **virus** is a program that causes harm to your computer and can steal information. A virus does 3 things

- 1. Attaches itself to another file / program
- 2. Copies itself
- 3. Spreads to other computers

Spyware is also a type of MALWARE.



Basic: Hacker: A Hacker is someone who gets access to your computer, phone or online account without permission. Despite what you see on films this is most often done via Social Engineering. This means being sneaky like looking over your shoulder when you put in your password, tricking you into sending your login details by email or just guessing your password if its weak.

#### **Advanced: Flowcharts**

<u>Algorithm</u>: A set of steps / instructions, logically set out that if followed tell you how to complete a task, calculation or write a computer program <u>Analytical thinking</u>: A kind of problem solving where by a person works out how to solve a problem or task using a computer program or algorithm

<u>Decomposition</u>: This is part of *Analytical thinking*. This is when a larger problem or task is broken into a series of smaller steps

<u>Abstraction</u>: This is part of *Analytical thinking*. This is when during the process of creating an algorithm or computer program, unimportant details are taken out and ignored. This helps to create a more efficient program / algorithm

<u>Actuator</u>: A motorised device that makes something move – like a door opening or closing

**Sensor**: A device that detects something outside of a computer system and creates a signal in the computer system – like a motion detector

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#### **Knowledge Organiser: Computational Thinking**

#### What is Computational Thinking

Computational thinking allows us to take a complex problem, understand what the problem is and develop possible solutions. We can then present these solutions in a way that a computer, a human, or both, can understand.

The Four Cornerstones of Computational Thinking are: Decomposition, Pattern Recognition, Abstraction and Algorithms

#### Decomposition

Decomposition is one of the four cornerstones of Computer Science. It involves breaking down a complex problem or system into smaller parts that are more manageable and easier to understand. The smaller parts can then be examined and solved, or designed individually, as they are simpler to work with.



#### **Pattern Recognition**

When we decompose a complex problem we often find patterns among the smaller problems we create. The patterns are similarities or characteristics that some of the problems share.

Pattern recognition is one of the four cornerstones of Computer Science. It involves finding the similarities or patterns among small, decomposed problems that can help us solve more complex problems more efficiently.

#### Abstraction

Once we have recognised patterns in our problems, we use abstraction to gather the general characteristics and to filter out of the details we do not need in order to solve our problem.

Abstraction is the process of filtering out – ignoring - the characteristics of patterns that we don't need in order to concentrate on those that we do. It is also the filtering out of specific details. From this we create a representation (idea) of what we are trying to solve.

Key Vocabulary				
Abstraction	The process of separating and filtering out ideas and specific details that are not needed in order to concentrate on those that are needed.			
Algorithm	A sequence of logical instructions for carrying out a task. In computing, algorithms are needed to design computer programs.			
Decomposition	The breaking down of a system into smaller parts that are easier to understand, program and maintain.			
Pattern Recognition	Finding similarities and patterns in order to solve complex problems more efficiently.			
Program	Sequences of instructions for a computer.			
Programming	The process of writing computer software.			

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#### **Knowledge Organiser: Designing an Algorithm**

#### Designed an Algorithm

Before designing an algorithm it is important to first understand what the problem is. Algorithms can be designed using pseudocode or a flowchart, and the standard notations of each should be known.

An algorithm is a plan, a logical step-by-step process for solving a problem. Algorithms are normally written as a flowchart or in pseudocode.

The key to any problem-solving task is to guide your thought process. The most useful thing to do is keep asking 'What if we did it this way?' Exploring different ways of solving a problem can help to find the best way to solve it.

#### Understanding the problem

Before an algorithm can be designed, it is important to check that the problem is completely understood. There are a number of basic things to know in order to really understand the problem:

What are the inputs into the problem?

What will be the outputs of the problem?

In what order do instructions need to be carried out?

What decisions need to be made in the problem?

Are any areas of the problem repeated?

#### Pseudocode

Most programs are developed using programming languages. These languages have specific syntax that must be used so that the program will run properly. Pseudocode is not a programming language, it is a simple way of describing a set of instructions that does not have to use specific syntax.

#### **Flowcharts**

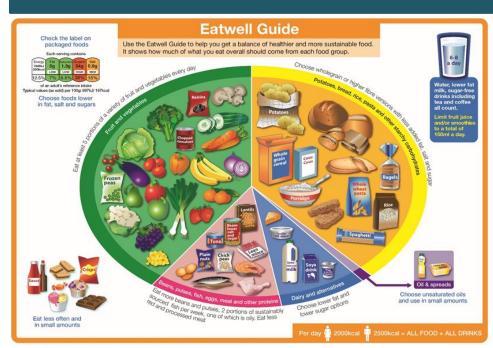
A flowchart is a diagram that represents a set of instructions. Flowcharts normally use standard symbols to represent the different types of instructions. These symbols are used to construct the flowchart and show the step-by-step solution to the problem.

Name	Symbol	Usage
Start or Stop	Start/Stop	The beginning and end points in the sequence.
Process	Process	An instruction or a command.
Decision	Decision	A decision, either yes or no.
Input or Output	Input/Output	An input is data received by a computer. An output is a signal or data sent from a computer.
Connector	•	A jump from one point in the sequence to another.
Direction of flow		Connects the symbols. The arrow shows the direction of flow of instructions.

Key Vocabulary					
Algorithm	A sequence of logical instructions for carrying out a task. In computing, algorithms are needed to design computer programs.				
Condidtion	In computing, this is a statement or sum that is either true or false. A computation depends on whether a condition equates to true or false.				
Flowchart	A diagram that shows a process, made up of boxes representing steps, decision, inputs and outputs.				
Input	Data which is inserted into a system for processing and/or storage.				
Instruction	A single action that can be performed by a computer processor.				
Iteration	In computer programming, this is a single pass through a set of instructions.				
Loop	A method used in programming to repeat a set of instructions.				
Notation	A system of written symbols or graphics used to represent something in order to aid communication and understanding.				
Output	Data which is sent out of a system.				
Program	Sequences of instructions for a computer.				
Programming language	A language used by a programmer to write a piece of software.				
Pseudocode	Also written as pseudo-code. A method of writing up a set of instructions for a computer program using plain English. This is a good way of planning a program before coding.				
Selection	A decision within a computer program when the program decides to move on based on the results of an event.				
Syntax	Rules governing how to write statements in a programming language.				

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#### **Cooking & Nutrition**



Nutrients	Use in the body	Sources
Carbohydrates	To provide energy	Cereal, bread, pasta, rice & potatoes
Protein	For growth and repair of muscles	Fish, meat, eggs, beans, pulses and dairy products
Fat	To store energy in the body, insulate heat, protects bones & organs from knocks	Butter, oil, nuts, cheese and other dairy foods
Vitamins & Minerals	Needed in small amounts to maintain a healthy body	M= Dairy foods, Meat, Fruit & Veg. V = Fruit & Veg
Fibre	To help digestion	Vegetables, bran
Water	Needed for cells and body fluids	Fruit juice, milk, water

**Preparing Food** 

The way you prepare or cook food affects the sensory experience of eating it.







































Finely cuts food

#### **Dietary Requirements: Lifestyle choice**

**Vegetarian:** Does not eat any meat Vegan: Does not eat any product from an animal

Pescatarian: Does not eat meat but does eat

Fish

Muslim: Does not eat pork, drink alcohol and meat must be Halal

Jewish: Does not eat pork, dairy and meat cannot be mixed, meat must be Kosher. Hindu: Does not eat beef as Cows are sacred

Sensory **Analysis**  Eating is a sensory experience, affecting all of our senses. Sensory analysis is carried to improve the experience.



Stringy, firm,

dry, heavy,

flat, crisp,

lumpy, fizzy,

hard, mushy,

dull, cuboid,

sticky,

fragile...

Sight:









mushy, tender, soft, firm, flaky, crisp, fluffy, crumbly, lumpy, citrus, mild, smooth, hard, umami, tangy, sticky, grainy salty, savoury, spicy



flaky, crumbly, slurp,

fluffy, smooth, rustle,



Crunch,

plop,

sizzle,

crack,

snap,

pop

crackle,







**Food Science: Function of Ingredients - YEAST** 



Bread is made using flour, warm water, yeast, sugar and a pinch of salt. The different ingredients have different functions:

Flour = Structure Salt = provides flavour and helps to set the structure Warm water = activates yeast and combines ingredients **Sugar** = Feeds the yeast

**Yeast** = raising agent that

Once the ingredients have been mixed a creates CO2 dough if formed. This needs to be **kneaded** so it becomes stretchy and elastic. This makes the bread light and airy in texture and a little chewy on the outside. It also helps to mix all the ingredients together.

Leaving the dough to **proof** is also important as this it the time the yeast needs to ferment, in which it releases CO2



#### Food & The Wider World: Alternative Proteins

We need food to survive, however the type of food we eat, how it is packaged, where it has travelled from has a huge impact on the environment.

Eating **meat** has a particularly high impact on the environment as the animal requires food, water to live, space to roam and time to grow.

Farmers will need to drive tractors to deliver food this also releases pollution into the atmosphere.

Once the animal has been slaughtered the meat will need to be kept in the fridge so not spoil. This means that energy is needed to power the fridges.







Meat is one of the best sources of protein, which our body needs to grow and repair muscles and cells. However many people are choosing to eat bugs such as crickets, mealworms as they are very high in protein however require far less food, water, space and time to grow.

Other non animal proteins include chickpeas, nuts, lentils, kidney beans. These are good source of protein but not as high as protein found in animals.

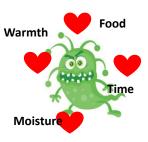
Bacteria is harmful micro-organism that can ruin the taste but also make Warmth food dangerous to eat. To multiply (and become dangerous) bacteria needs enough food and moisture, the right temperature and enough time. To stop the multiplying of bacteria, you must limit these conditions.

You can use the 4 CS to do this:

**Cross Contamination:** preventing raw foods (meat) from contacting ready to eat food.

Cooking: Kills the bacteria Chilling: Keeps it dormant (not active)

Cleaning: Kills bacteria, but also prevents food and moisture from being available.



Food Spoilage (Food Safety)



#### Introduction to Drama

#### The 6Cs of Drama

Co-operationCreativityCommunicationWorking togetherUsing my imaginationSpeaking and listening

Confidence Being brave

Concentration FocusConsideration Respect

#### The Features of a Frozen Picture

Frozen pictures are like photographs; they capture a moment and tell the audience a story. You must use the features of a frozen picture to ensure the story is clear for the audience.

- · Awareness of the audience
- No blocking
- Exaggerated facial expressions
- Exaggerated gestures
- Different levels
- · Creative use of space

Challenge:

Points of contact

Physical theatre (when you use your body to make an object)

#### Self Quiz - LOOK, COVER, WRITE, CHECK & CORRECT

- 1. The key words and their meaning.
- 2. In the boxes provided, sketch 3 frozen pictures entitled 'The Door'. Annotate the boxes by labelling them with the correct features of a frozen picture.

How could you make the door using your body? What is behind it?

l		

#### **Darkwood Manor**

Improvisation means creating drama. We can do this spontaneously which means 'on the spot' or we can rehearse this which means we talk, plan and practise.

Use the whole group role play you did in your lesson to identify the success criteria below:

To make our spontaneous improvisation successful, we need to:







#### Key words:

**Teacher in role** – The teacher takes on a role/ character by changing their voice face and body.

**Character** – changing your voice, face and body to become someone different in performance.

Narration - telling the story.

Tension - A feeling of nervousness, discomfort, fear and excitement.

Climax - The peak of tension in a performance.

**Cliff hanger** – Ending a performance at a crucial moment leaving the audience with uncertainty and suspense.

Suspense - a state of feeling excited or anxious uncertainty about what may happen.

Atmosphere - a feeling or mood that surrounds us.

Soundscape - layering sounds and words to communicate meaning to an audience.

Setting – where the performance takes place

#### Self Quiz - LOOK, COVER, WRITE, CHECK & CORRECT

Make sure you understand the meaning of the key words in bold.

#### Task

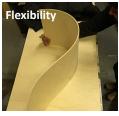
Use the pictures to write a script narrating your journey into the manor. Write in the first person, think about the senses and add interesting language.

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#### Material Properties describes what the product can do.



Ability to resist cutting and indentations to its surface



Ability to bend without breaking and then spring back to its original shape.



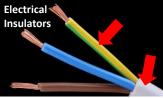
Ability to withstand shock



Ability to be hammered, rolled or pressed into shape without breaking. Heat is used to help the material become more malleable



Ability to pass/transfer electrical currents



Ability to hold passing electrical currents, without conducting them.



Heat Conducting
Ability to transfer heat



Ability to withstand water or moisture – also known as Water Repellent.



Ability to absorb/soak up water or moisture (opposite to water resistant)



Ability to be stretched into a length without breaking



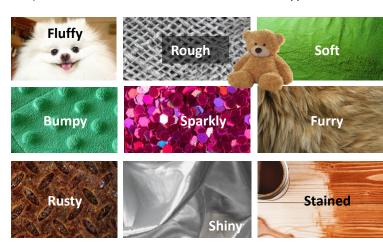
Material Characteristics describes the aesthetics of a material – the textures, appearance, shape and size.



**Texture** describes how something feels. **Appearance** describes how something looks.

'The fabric is soft and fluffy in texture and a deep red in colour'

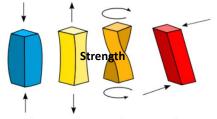
Important: Sometimes a texture descriptor can also describe the appearance. The pictures below have been labelled **T= Texture** and **A =Appearance**.







Ability to be stretched and return to its original size



Ability to withstand being squashed (compression), pulled (tension), twisted (torsional) and Sheared (two pushing or pulling forces acting close together but no directly opposite).

Choose a product and explain the use of materials based on it's properties and characteristics









Rubber



Ferrous Metals						
	Composition	Uses				
Cast Iron	Re-melted pig iron* with additions	Hard skin but brittle soft core. Heavy. Rigid under compression. Cannot be bent or forged. Corrode easily unless protected (enamelled)	Parts with complex shapes made via casting. Frying pans, machine parts, vices.			
Mild Steel	Iron and 0.15-0.30% Carbon	High tensile strength, ductile, tough, fairly malleable, poor resistance to corrosion.	Nails, screws, nuts, bolts, plate, sheets, car bodies			
Medium Carbon Steel	Iron and 0.30-0.70% Carbon	Stronger and harder than mild steel but less ductile, tough and malleable	Garden tools such as trowels, forks, and springs			
High Carbon Steel	Iron and 0.70-1.40% Carbon	Hardest of the carbon steels; less ductile, tough or malleable.	Hammers, chisels, screwdrivers, drills, files			
Stainless Steel	74% Steel (Iron & Carbon) 18% Chrome 8% Nickel	Resistant to corrosion (non toxic), hard, tough but difficult to work with. Shiny in appearance.	Sinks, Dishes, Cutlery			
High Speed Steel	Medium Carbon Steel + Tungsten, Chromium and Vanadium	Retains hardness at high temperatures; resistant to high level of frictional heat.	Drills, lathes, cutting tools.			
High Tensile Steel	Low Carbon Steel + Nickel and Chrome	Extremely hard and tough	Gears, shafts, engine parts, turbine blades.			

<sup>\*</sup>Pig Iron is the iron that comes from the furnace first. It has not been refined.

Alloys = mixture of two or more pure metals to improve performance

Non Ferro	Non Ferrous Metals							
Aluminium Pure Metal		Light, soft, ductile, malleable, good conductor of heat and electricity, corrosion resistant, polishes well. Easily welded.	Aircraft bodies, saucepans, cooking utensils, packaging, foil, cans, window frames					
Copper	r Pure Metal Malleable, ductile, tough, good conductor of heat/electricity, easily joined, corrosion resistant, easily soldered.		Electrical wire, hot water tanks, heating pipes, PCBs					
Brass	35% Zinc conduct electricity/heat, decorations fittings, mu		Castings, Ornamental decorations, boat fittings, musical instruments					
Bronze	90% Copper 10% Tin	Tough, hardwearing, corrosion resistant, aesthetically pleasing	Bearings, castings for statues, coins, valves (air, water, and steam)					
Lead	Pure Metal	Very soft, heavy, malleable, corrosion resistant, low melting point, easy to work with	Sold solders, roof coverings, protection against x-ray radiation					
Tin	Pure Metal	Soft, ductile and malleable, low melting point, corrosion resistant. Mostly used within alloys rather than on its own.	Soft solders					
Tin Plate	Steel sheet coated with Tin	Mild steel gives it strength, tin coating bends with the steel, it is non toxic	Tin cans					
Pewter	91% Tin 7.5% Antimony 1.5% Copper	Malleable, casts well, low melting point, corrosion resistant	Decorative features (jewellery), plates, cups					
Zinc	Pure Metal	Low melting point, extremely corrosion resistant, easily worked	Coating of steel bins, buckets, watering cans (galvanising)					





Thermoset Plast	Thermoset Plastics					
	Properties/ Characteristics	Uses				
Urea Formaldehyde	Stiff, hard, brittle, heat resistant, good electrical insulator, available in a range of colours	White electrical fittings (plug sockets) domestic appliance parts (kettles), wood glue (PVA)				
Melamine Formaldehyde	Stiff, hard, strong, range of colours and finishes, scratch and stain resistant, odourless, food safe	Tableware, decorative laminates for work surfaces, electrical insulator				
Phenol- Formaldehyde (Bakelite)	Stiff, hard, strong, brittle, heat resistant	Dark electrical fittings, saucepan and kettle handles				
Epoxy Resin	Good chemical and heat resistance, electrical insulator, durable.	Used largely as an adhesive (glue) to bond different materials together – wood, plastic and metal				
Polyester Resin	When laminated with glass fibre it becomes tough, hard and strong. It is brittle without reinforcement.	GRP (Glass Reinforced Plastic) boats, chair shells and car bodies.				

Using your existing knowledge of Thermoplastics and Thermosets (see the first page 'Product Design') <u>and</u> the above tables to explain why particular polymers have been use for particular product uses. Eg:

Why is expanded polystyrene suitable for protective packaging?
 Why would Urea Formaldehyde be used in the casing of a computer?
 -Why is Polypropylene used to make outdoor children toys?



## Wanderlust

#### What Is Travel Writing?

Travel writing is writing about visiting different places.

It can appear as a factual piece of writing, such as a newspaper article, informing readers about a specific destination.

It can also be in the form of literary nonfiction, such as a longer book which tells someone's story.

### Genre Conventions (what to expect)

Travel writing is usually written in the first person – using 'I'.

As literary non-fiction, it aims to entertain as well as inform. It often includes descriptions of places and people the writer has met there.

It is often descriptive – telling you about the place using powerful vocabulary and language techniques.

Texts		Context	Key Vocabulary
Robert Falcon Scott - Captain Scott's		Captain Scott was a Royal Navy officer and explorer who led two expeditions to the Antarctic regions. His diary tells the tale of his final expedition. (Written 1912)	Expedition = A journey with a purpose Inhospitable = An environment that is harsh and difficult to survive in. Sublime: awe- inspiring, majestic, overwhelming
William Blacker - Along the Enchanted Way		William Blacker lived in Romania from 1996 to 2004. He now divides his time between England, Italy and Romania. (Published 2009)	Alienated = Feeling strange or isolated Assimilate = To fit in with a group of people Diverse = Varied
Dervia Murphy - Full Tilt: Ireland to India with a Bicycle		<b>Dervia Murphy</b> is an Irish touring cyclist who has written about her adventures for over 40 years. (Published 1965)	Governed = Controlled by Emaciated = Abnormally thin or weak Gruelling = Extremely tiring or demanding
Jini Reddy - On the Road in Rural Iran		Jini Reddy was born in London to South African-born parents of Indian descent. She has lived in many different countries and is a travel journalist. (Published 2009)	Alluring = Powerful and mysteriously attractive or fascinating Serenity = The state of being calm and peaceful Juxtapose = Place close together with contrasting effect
Kate Marsden - On Sledge and Horseback to Outcast Siberian Lepers	missionary, explorer, writer and nurse. She set out on a round tri from Moscow to Siberia to find a		Missionary = A person sent on a religious mission Disrepute = Being not trusted or disrespected Tension: Mental or emotional strain
<b>Tété-Michel Kpomassie</b> - An African in Greenland		<b>Tété-Michel Kpomassie</b> journeyed from West Africa to Greenland, inspired by a book he read as a teenager. (Published 1981)	Awe-inspiring- something magnificent illuminated- lit up

ZOOM

**FLASH** 

END

Descriptive Techn	iques	Sente	nce Parts	Examples		Vocabulary and Meanings	S
Technique: Personification - a	Example: The waves		t- noun the ce is about.	The <u>waves</u> danced.		Nouns: scenery - natural landscape	Adjectives to Describe Senses: acrid - bitter or unpleasant smelling
metaphor attributing human feelings to an object.	danced on the horizon as the boat skipped towards the	Verb- w express doing.	vord sing action/	The waves <u>danced</u> .		vegetation - plants and trees) atmosphere - mood of a place	repulsive - horrible mouth-watering - delicious deafening - extremely loud whistled- a high pitched sound
Onomatopoeia - words that sound a little like they mean.	island.  The autumn leaves and twigs cracked and crunched	a sente one sul main ve	lause - Part of ince containing oject and one erb (makes by itself).	The car stopped because the lights we at red.	ere	memory experience culture - way of life impression adventure	Adjectives to Describe Places: luscious - delicious or appealing verdant - bright green (grass)
Pathetic fallacy - using the weather to create or reflect a certain mood.	underfoot.  The sun's rays beamed down, warming everything they	Part of which of	dinate clause - a sentence does not make by itself.	The car stopped because the lights was at red.	<u>rere</u>	horizon - line where sky and earth / sea meet obstacle - blocks the way sunset sunrise	densely-populated - many people living close together in one place remote - far from other people or places diverse
Metaphor - a descriptive technique that	touched.  The circus was a magnet for the children	two ma	nctions - join in clauses to a compound	FANBOYS For/And/Nor/But/Or/Y So  The majestic bird soa	red	sun's rays moon's glow  Verbs: squint - looking with eyes	ethereal - seems not to be of this world eerie - creepy or unsettling nostalgic - reminds you of a past time meandering - a winding course austere- harsh and inhospitable
names a person, thing or action as something else.				through the clear blue sky <u>and</u> the wind whistled melodically.	<del>)</del>	part closed picturesque- attract vibrant- full of energy	picturesque- attractive in a quaint way vibrant- full of energy and life
Simile - a descriptive technique that compares one thing with another, usually using 'as' or 'like'.	The heavy raindrops felt like bullets on my skin.	Conjur subordi which h	dinating nctions - start nate clauses nelp create x sentences	ISAWAWABUB If/ since/ as/ when/ although/ while/ after/ before/ until/ because Although it had been raining, the ground wary.	•	course emerge - move out from immerse - get involved in venture - go bravely hurry - go quickly dawdle - walk slowly dance- move rhythmically	breaktaking- astonishing or awe= Adjectives to Describe Buildings: abandoned - empty(building) derelict - old and falling apart (building) dilapidated - old and ruined (building) - sparkling and bright resplendent - attractive and impressive
Structuring Fiction  DROP Start in the	n (Story Writing)	ction	DROP Sentend In that moment All around, I co		Imm	OM Sentence Starters: lediately, the colours of the ght my eye	imposing - grand and impressive historic - famous or important in history beloved - loved by many people

A sudden gust of hot air blew,

**FLASH Sentence Starters:** 

The streets had been deserted

Seeing... instantly took me to...

Earlier that morning..

Back at home..

pushing...

when...

The subtle shades of...

My eyes are drawn to...

**END Sentence Starters:** 

Reflecting on my day, ... Repeat a word / phrase from the

opening of the piece

before...

grew louder than ever

	repulsive - norrible
	mouth-watering - delicious
	deafening - extremely loud
	whistled- a high pitched sound
	grotesque - ugly or unnatural
	Adjectives to Describe Places:
	luscious - delicious or appealing
	verdant - bright green (grass)
	densely-populated - many people
	living close together in one place
	remote - far from other people or
5	places
	diverse
	ethereal - seems not to be of this world
7	eerie - creepy or unsettling
5	nostalgic - reminds you of a past time
	meandering - a winding course
	austere- harsh and inhospitable
	picturesque- attractive in a quaint way
	vibrant- full of energy and life
	breaktaking- astonishing or awe=
	Adjectives to Describe Buildings:
	abandoned - empty(building)
	derelict - old and falling apart (building)
	dilapidated - old and ruined (building)
	- sparkling and bright
	resplendent - attractive and
	impressive
	imposing - grand and impressive



**Synonyms for bright / beautiful:** 

dazzling, glimmering, illuminating,

eye-catching

mesmerising, enchanting, beguiling,

in' on and describe in detail

start. What has changed?

Choose something that you will 'zoom

Change the time or place of your story

Bring it back to where you were at the

#### Asia and Africa

#### 1. Where are India and Nigeria?

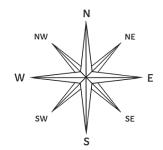
There are 7 continents: Europe, Asia, Africa, North America, South America, Antarctica and Oceania.

5 major oceans: Atlantic Ocean, Pacific Ocean, Arctic Ocean, Indian Ocean and Southern Ocean.

We use 8 compass points to describe position and direction.

The 4 main points are North, South, East and West (going clockwise they are NESW).

Nigeria is located in West Africa. India is located in SouthEast Asia. Nigeria is South West of India and India is North East of Nigeria.



#### Key words

**Country**: An area of land that is controlled by its own government.

**Continent**: A large area of land that is separated from others by water or other natural features.

**Physical geography:** The study of the Earth's natural features.

**Human geography:** The study of where and how people live.

#### 2. Why are Nigeria and India important?

Both countries are predicted to continue developing quickly in the next few decades, with India ahead of Nigeria. We can measure development with many different indicators:

- Gross Domestic Product (GDP): This measures a country's wealth.
- Life expectancy: This helps us understand the <u>standard of living</u> in a country.

Nigeria is important to study because:

- It has the fastest growing economy in Africa with the highest GDP on the continent and 26th in the world
- It also has the largest population in Africa with 201 million people with a life expectancy of 53
- Nigeria has a diverse culture. Nigerian music is enjoyed throughout Africa. It is also a hub for literature with a range of popular writers.
- Nigeria has the second-largest film industry in the world, ahead of the United States and behind India. Nigerian cinema is known as "Nollywood".

India is important because:

- In 2020 India had the 5th highest GNP in the world and 3rd in Asia.
- It has the second biggest population in the world, with an estimated 1.38 billion people in 2020.
- India also has a rich culture, with many different languages and food. India has a strong religious and spiritual culture with yoga originating in the country. Bollywood is the largest film industry in the world.

#### **Development:** The standard of living of the

people who live in a country.

**Gross Domestic Product (GDP):** the total value of goods and services produced by a country in a year.

**Life expectancy:** The average age a person can expect to live to at birth.

**Standard of living:** The amount of wealth or personal comfort that a person or group of people have.

#### 3. How to use 4 figure grid references to locate the main physical features of each country

A grid of squares helps people to locate places and features on a map. The vertical lines are called eastings. They are numbered - the numbers increase to the east. The horizontal lines are called northings as the numbers increase in an northerly direction.

When finding a four figure grid reference you must always find the bottom number first (Easting), and then the number up the side (Northing)

- 1. Start at the left-hand side of the map and go east until you get to the bottom-left-hand corner of the square you want. Write this number down.
- 2. Move north until you get to the bottom-left corner of the square you want. Look at the number of this grid line and add it to the two-digit number you already have. This is your four-figure grid reference.
- 3. E.g. the church is in (22, 31)

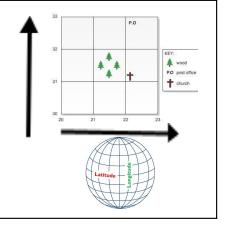
An easy way to remember this is: Along the corridor and up the stairs

#### Longitude and Latitude

On a world map, we use a system of imaginary lines to find the location of anywhere on the surface of the Earth.

- The horizontal lines are called the lines of **latitude** and tell you how far North and South you are.
- The vertical lines are called lines of longitude and tell you how far East and West you are





#### **The Norman Conquest**

#### **Summary:**

When King Edward the Confessor died in 1066, England was plunged into crisis. As he had no children, three men sought to seize the throne for themselves. Edward had, at different points, promised two of them the throne – William, Duke of Normandy, and Harold Godwinson, Earl of Wessex. A third, Harald Hardrada, claimed the throne due to his ancestors being former kings of England.

Although Godwinson was immediately crowned king, The three men took each other on in a series of battles at Fulford, Stamford Bridge and Hastings. The final battle settled the issue, as William killed his rival, Harold, and was crowned on Christmas Day 1066.

William faced a number of challenges upon becoming king. He took land away from his defeated enemies, and gave it as a reward to his loyal supporters. He also built a series of castles across the country – they were called Motte and Bailey castles and they were built quickly out of wood and earth. These measures helped him to defeat a series of rebellions. William also carried out the Domesday Survey, a national survey of every town and village in England. This helped him to resolve land disputes, and gave him a clear idea about how much tax was owed, helping him to raise money. All of these actions meant that William increased his control over the country.

#### **Britain before 1066**

England was made up of two main tribal groups:

**Anglo-Saxons:** People who lived in Britain from the 5th century. They included people from tribes who migrated to the island from Germany and Denmark.

**Vikings:** Many Vikings lived in the North of England in the area known as Danelaw, under Kings like Canute.

Until 1066, the king was Edward the Confessor (1042-1066).

- Edward became king of England in 1042 after his half-brother died. Before this he had been living in Normandy.
- Edward married but had no children. It was not clear who Edward wanted to be king after him. For a king to die without an heir was a disaster!
- He was made a saint and 'the Confessor' means someone that is saint-like.

Key developments			
4 <sup>th</sup> January	Edward the Confessor dies without leaving an heir		
6 <sup>th</sup> January	Harold Godwinson is crowned as the new king		
July	Harold prepares his army for an invasion from the south		
September	ptember Harald Hardrada launches an invasion of England		
20 <sup>th</sup> September	The Battle of Fulford – a Viking victory over the Saxons		
21 <sup>st</sup> September	King Harold Godwinson begins to march north		
25 <sup>th</sup> September	The Battle of Stamford Bridge – Saxons defeat Vikings		

	Key terms				
Normans	A group of people from Normandy, in northern France				
Heir	Someone chosen to take over from the king or queen after they die				
Invasion	An attempt to take over a country by force				
Exile	To force someone to leave the country				
Earl	A powerful lord who ruled over a large region on behalf of the king				
Shield Wall	A defensive tactic commonly used by the English Saxons				
Hostage	A prisoner taken from your enemy to make sure they cooperate				
Archer Soldiers who use a bow and arrow					
Cavalry	Soldiers who fight on horseback				
Pope	Head of the Christian Church – seen as God's representative on earth				
Feigned Retreat A Norman tactic that involved faking a retreat to draw out the ener					
Motte	The raised mound of earth at the centre of the castle				
Bailey	The enclosed area containing buildings like storehouses and barracks				
Keep A strong fortification on top of the hill from which the Normans kept					
Feudal System	The way Norman society was organised, with the king at the top				
Peasants The common people, who had little power in Norman England					
Rebellion	An attempt to get rid of the king or queen by a group using violence				

#### The Norman Conquest

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A **sword** used for slashing, not stabbing. Used by important soldiers. Passed down through the family.





The **Fyrd** were regular peasants, untrained in battle, who were recruited just before the battle. They had basic equipment and little fighting experience.



Housecarls were highly trained and well equipped knights that formed the king's personal bodyguard. Harold Godwinson had a few hundred.



Archers were soldiers who used a bow and arrow. They normally stayed at the back of the army. The Normans made good use of archers.



Cavalry were horse-mounted soldiers. They could move around quickly. The Normans used cavalry, but Saxons and Vikings didn't.





- English
- **Popular**
- One of Edward's advisors
- Powerful and experienced
- Important English family
- Edward's
- brother-in-law
- Good soldier
- Claimed Edward had promised him the throne just before he died

#### Harald Hardrada



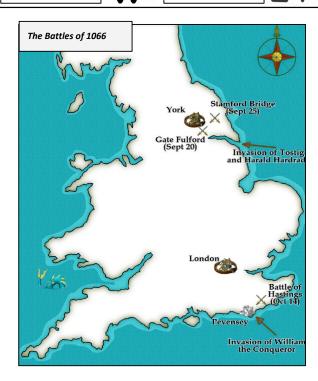
- Related to a previous king of England
- King of the Vikings a powerful group within
- Popular with Vikings in the north

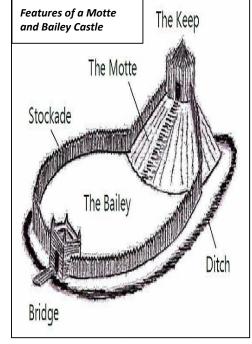
England

- Outstanding soldier and leader
- Powerful and experienced
- Already a king

# William, Duke of

- King Edward had promised him the throne
- England had close links with
- Normandy and Edward had lived
- there for a while Powerful and
- experienced Good soldier
- Harold Godwinson had sworn to support his claim





#### **Memory Maths Booklet**

Pathway X and A	Pathway B, C and D			
KO1 I know the times tables up to 12 x 12				
KO2 I know the properties of a prime number, the first 15 square numbers and the first 5 cube numbers and their roots	KO2 I know odd and even numbers, the first 10 prime numbers, the first 12 square numbers and the first 5 cube numbers and their roots			
KO3 I know the rules of collecting and simpli	fying like terms in equations and expressions			
KO4 I know the formulas to find the interior and exterior angles of a polygon. I know the formula to find the sum of the total angle in a polygon	KO4 I know what an acute, obtuse, reflex and a right angle is			
KO5 I know Pythagoras' theorem	KO5 I know how to read coordinates of any quadrants and I know the formula to find the midpoint			
KO6 I know the multipliers to find 19	%, 5%, 10%, 20%, 25%, 50% and 75%			
KO7 I know what fractions and percentage are as ratios and vice versa	KO7 I know what fractions are as ratios and vice versa			
KO8 I know the formulas to find the surface area and volume of prisms and cylinders	KO8 I know the formulas to find the area of rectangles, squares, parallelograms and triangles, circle and trapeziums			
KO9 I know the method to expand and factorise double brackets	KO9 I know the method to expand and factorise expressions			
KO10 I know how to convert time into seconds, minutes and hours and vice versa	KO10 I know how to convert millimetres to centimetres, metres and kilometres and vice versa			

Pathway X and A	Pathway B, C and D					
KO1	KO1					
1     ×     1     =     1       1     ×     1     =     1       1     ×     2     2     2     4       1     ×     3     3     2     6       3     ×     2     6     4     2     8       1     ×     4     4     4     5     7     10       1     ×     4     4     4     1     6     6     7     1       1     ×     5     5     7     1     6     8     7     1       1     ×     6     6     2     8     16     8     1     1       1     ×     6     6     2     8     16     8     1	7 × 1 = 7         8 × 1 = 8         9 × 1 = 9         10 × 1 = 10         11 × 1 = 11         12 × 1 = 12           7 × 2 = 14         8 × 2 = 16         9 × 3 = 27         10 × 3 = 30         11 × 3 = 33         12 × 2 = 24           7 × 4 = 28         8 × 4 = 32         9 × 4 = 36         10 × 4 = 40         11 × 3 = 33         12 × 3 = 36           7 × 5 = 35         8 × 6 = 48         9 × 5 = 45         10 × 5 = 50         11 × 5 = 55         12 × 5 = 60           7 × 7 = 49         8 × 7 = 56         9 × 7 = 63         10 × 6 = 60         11 × 7 = 77         11 × 6 = 66         12 × 6 = 72           7 × 9 = 63         8 × 8 = 64         9 × 8 = 72         10 × 8 = 80         11 × 9 = 99         11 × 9 = 99         12 × 9 = 108           7 × 10 = 70         8 × 10 = 80         9 × 10 = 90         10 × 10 = 100         11 × 10 = 110         12 × 1 = 12					
1     ×     11     =     11     =     2     ×     11     =     33     ×     11     =     33     4     ×     11     =     44     5     ×     11     =     55     6     ×     11     =     66     6     ×     12     =     72       1     ×     12     =     12     =     34     ×     12     =     44     12     =     48     55     ×     12     =     60     66     ×     12     =     72	7 × 11 = 77     8 × 11 = 88     9 × 11 = 99     10 × 11 = 110     11 × 11 = 121     12 × 11 = 132       7 × 12 = 84     8 × 12 = 96     9 × 12 = 108     10 × 12 = 120     11 × 12 = 132     12 × 12 = 144					

#### KO2

Odd numbers end in 1, 3, 5, 7, 9. Even numbers end in 0, 2, 4, 6, 8

The first 10 prime numbers are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29. Prime numbers have two factors. 1 and itself. 1 is NOT a prime number

The first 12 square numbers are 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144

The first 5 cube numbers are 1, 8, 27, 64, 125. 1 and 64 are a square and a cube number

#### KO3

Identify the like terms in an algebraic expression and combine them by adding or subtracting.

KO4 Sum of total angle inside a polygon = (n - 2) x 180 Interior angle of a polygon = sum of interior angles ÷ number of sides Exterior angle of a polygon = 360 ÷ number of sides	KO4 A right angle is 90° An acute angle is one that measures LESS than 90° An obtuse angle is one that measures between 90° and 180°	
	A reflex angle is an angle that measures between 180° and 360°	
KO5 In a right-angled triangle, the square of the hypotenuse side is equal to the sum of squares of the other two sides $Q^2 + D^2 = C^2$	KO5 The first number represents the position on the x-axis, and the second number represents its position on the y-axis. The coordinates are usually written as (x,y). X and y coordinates (axis) are horizontal and vertical addresses in a graph or map	

Pathway X and A	Pathway B, C and D	
KO6 1% multiply by 0.01, 5% multiply by 0.05, 10% multiply by 0.1, 20% multiply by	by 0.2, 25% multiply by 0.25, 50% multiply by 0.5 and 75%, multiply by 0.75	
KO7 Ratios are given as 5:8 To convert to fraction it'll be 5/5+8 (5/13) and 8/8+5 (8/13) Convert to percentage by multiplying the fraction by 100	KO7 Ratios are given as 5:8 To convert to fraction it'll be 5/5+8 (5/13) and 8/8+5 (8/13)	
KO8  Figure Picture Surface Area Volume  Rectangular Prism $2l\omega + 2\omega h + 2lh$ Area of Base $x h$ $y = l\omega h$ Triangular Prism $6h + (Pbase)h$ Area of 2 triangles $x \ge perimeter$ Cylinder $2\pi \frac{r}{r} + 2\pi \frac{r}{r}h$ Area of Base $x$ height	KO8  Square  Rectangle  A=x^1  A=bh  Area = 1x  Perimeter = ac  Triangle  Area = $\frac{1}{2} \times b \times h$	
How to expand double brackets:	KO9 How to expand brackets: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
KO10 $\times 60 \times 60$ hours minutes Seconds $\div 60 \times 60$	KO10  **1000 **100 **10  **1000 **100 **10	



#### MUSICAL ELEMENTS









Year 7 - DPR 1

#### 

#### MUSICAL ELEMENTS CONT.

The key words form an acronym:

MADTSHIRT(T)

**HARMONY TERMS:** 

MAJOR / MINOR

**ARTICULATION TERMS:** STACCATO / LEGATO

**TEXTURE TERMS:** THICK / THIN

**DYNAMICS TERMS:** FORTE (LOUD) / PIANO (SOFT)



Melody - formal word for 'tune'

Articulation - how you play / sing a note

Dynamics - how loud or soft a note is played

Texture - how the layers of a musical piece fit together

Structure - the different sections of a piece and how they are ordered

Harmony - how notes work together to make an effect

Instrumentation - which instruments or voices are used

Rhythm - pattern of notes over time

Tempo - the overall speed of the music

Time Signature - how the beats are arranged in music (metre)

#### RECOMMENDED LISTENING 🗆 🗆 🗵

#### Classical

Stravinsky - Rite of Spring Prokofiev - Peter & the Wolf Rhythms of the World Le Trio Joubran Mustapha Tettey Addy

#### Pop

Little Richard - Little Richard is Back Elvis Presleu

#### Film

Star Wars - Episode 1 Soundtrack (1999)

#### **REVISION QUESTIONS**

- 1) What are the two words associated with harmony?
- 2) What are the two words associated with texture?
- 3) Describe the difference between staccato and legato.
- 4) What is the other word that can mean 'time signature'?
- 5) What are the musical names of the notes (not tea/coffee)?
- 6) Listen to one of the Recommended Listenings and identify concepts you hear from each of the Flements of Music.

7 Cervical vertebrae

12 Thoracic vertebrae

5 Lumbar vertebrae

Sacrum (5 fused) Coccyx (3 to 4 fused)

#### The structure and functions of the skeletal system Cycle 1 Structure of the skeletal system - Key bones highlighted Cranium Clavicle Sternum Humerus Ribs Radius Pelvis Ulna Femur . Patella -. <mark>Tibia</mark> <mark>Fibula</mark>

#### Structure of the skeletal system **Vertebral Column** The vertebral column is divided into 5 sections. It is made up of irregularly Scapula shaped bones called vertebrae. Vertebral column Each vertebra is protected with cartilage to prevent friction. The vertebrae protects the

#### **Function of the skeleton**

- Protection of vital organs
- Muscle attachment
- Joints for movement

#### **Classification of joint**

- Pivot (neck atlas and axis)
- Hinge (elbow and knee)
- Ball and socket (hip and shoulder)

#### **Connective tissue**

**Ligaments** – attaches bone to bone to add joint stability.

**Tendons** – attaches muscles to bone and contributes to joint movement as a result of muscle contraction.

#### Classification of bones

Long (leverage)	Short (weight bearing)	Flat (protection + muscle attachment)	Irregular (protection and muscle attachment)
Clear shaft region to the bone. i.e. femur, humerus & phalanges	Light, small and very strong. i.e. carpals tarsals	Broad surface area for muscle attachment. i.e. cranium	Assist the functioning of certain joints. i.e. Patella/vertebrae

spinal cord.

#### Joint movements

Flexion	Adduction	Rotation	Dorsi-Flexion (ankle joint)
Decreasing the angle at a joint (bending)	Limbs moving towards the midline of the body.	A twisting/turning action around a joint.	When the toes are turned up to the body.

#### Looking for God

Looking for God				
	Key Terms	Key Concepts		
Fact Something that can be shown through evidence to be true, or to exist or to have happened.		<u>Ultimate Questions</u> : These are questions often of a philosophical and Religious nature that have no right or wrong answer. For example: Why am I here? What is the meaning of life?		
Opinion	A view somebody takes	<u>Design argument</u> : Also known as the Teleological argument is a theory that states that the world is too complex to have come into existence of its own accord and therefore must have a had an intelligent designer behind its creation and the only person powerful enough to do it would be God. This theory was postulated by William Paley		
	on an issue based on personal thoughts and judgements	<u>Creationism:</u> A Christian belief that the world was created exactly as the Bible describes it.		
Truth	A statement generally	<u>Cosmological Argument:</u> Sometimes called "Causation" or the first cause it is an argument proposed by Thomas Aquinas that says that all things have been caused by a prior cause. The Earth itself must have been caused by something else and the only thing powerful enough to cause the Earths existence is God.		
	believed to be true that usually links directly to	Something else and the only thing powerful chough to cause the Earth's existence is dod.		
	fact or reality	Creation Stories		
Belief	Acceptance by the mind that something is true, often because of an	Christianity: God created the world in 6 days and rested on the seventh. Each day of creation involved a new creation starting on the 1 <sup>st</sup> day with light and ending on the sixth day with humans. The first Human was Adam and then Eve was created from Adam's rib		
	emotional or religious sense of being certain.	Islam: God created the world in 7 periods and each period of creation involved the creation of different elements of the universe. Adam was the first man and he was created from the soil. Eve would be created from Adam and they would live in paradise until Iblis, a Djinn, tempted them into sin		
Creation	The act of bring something into existence	mont Adam and they would live in paradise until ibils, a Djilli, tempted them into sin		
Theist	A person who believes in God	Hinduism: in the beginning there was darkness and a divine force. The divine force made an egg and from that egg hatched Brahma the creator. The Egg split into two halves and these became the Heavens and the Earth, Brahma then continued to create all life from this point.		
Atheist	A person who does not believe in God	Aboriginal story: there was always been land but no life until the dreamtime ancestors visited the land at the		
Agnostic A person who is unsure of God's existence		behest of Baiame the creator. As the shape changing ancestors went across the land they left their mark creating all different forms of life. For example dreamtime eagle ancestor is the source of all eagles.  Eventually the ancestors went back into the land and allowed life to thrive without them		

Looking for God				
ŀ	Key Terms	Key Concepts		
Numinous	The feeling of the presence of something greater than yourself i.e. the church	Religious Experience: Some people say that a religious experience is one that <b>changes your life</b> forever. They believe a real religious experience will give you a deeper <b>knowledge</b> and <b>awareness of God</b> .		
Miracle	Something that seems to break a law of science and makes you think only God	<u>Tawhid:</u> The oneness of uniqueness of God. A key belief within Islam that is included in both the six articles of Sunni Islam and the 5 roots of Usul-ad-din in Shi'a Islam		
	could have done this.	The 99 Names of Allah: God in Islam has 99 names to represent all the different attributes that God represents. These include names like the life-giver, the forgiver, the king, the first and the wise.		
Prayer	An attempt to contact God, usually through words	<u>Jesus Miracles:</u> Jesus performed a host of miracles in his lifetime including turning water into wine, walking on water, feeding 5000 people with a few loaves of bread and a few fish, healing the sick and bringing Lazarus back from the dead		
Conversion				
Trimurti	The word used to describe the 3 Gods that preside over all life in Hinduism Brahma (creator), Vishnu (preserver) and Shiva (destroyer)			
		Important Quotes		
AUM	The Symbol of Hinduism that represents all life A= Brahma U=Vishnu M=Shiva	"He is Allah, The one and only; Allah the eternal, absolute, he begot none, nor was he begotten, and there is none like him." (Surah 112)		
		"He is Allah the Creator the Evolver, the Bestower of Forms (or Colours). To Him belong the Most Beautiful		
Puja	A ritual in Hinduism where offerings are made to a shrine, each aspect of the puja ritual appeals to a different sense	Names: whatever is in the heavens and on earth, doth declare His Praises and Glory: and He is the exalted in Might, the Wise. [Surah 59:24]		
		"And when he thus had spoken, he cried with a loud voice, Lazarus, come forth. And he that was dead came forth, bound hand and foot with grave clothes: and his face was bound about with a napkin. Jesus saith unto them, Loose him, and let him go" John 11:43-44		
Meditation	A state in which the body is consciously relaxed and the mind is allowed to become calm and focused	is he will is the one you proise he is your Cod who performed for you those great and avecame wonders you		



#### KS3 States of Matter Knowledge Organiser

#### Three States of Matter

There are three main states of matter: solid, liquid and gas.

All matter is made up of tiny parts called particles. How they are arranged determines the state of matter and the properties of the material.

	Solid	Liquid	Gas
particle model diagram		A	
particle arrangement	regular structure no space between particles	irregular structure very little space between particles	irregular structure large space between particles
volume and shape	fixed volume fixed shape	fixed volume shape changes to fill bottom of container	volume increases to fill capacity shape changes to fill capacity
able to flow	no (forces between particles are very strong and hold them in fixed positions)	yes (forces between particles are weak and particles slide over one another)	yes (forces between particles are very weak and particles move randomly and rapidly)
density	high cannot be compressed (particles are already tightly packed)	high cannot be compressed (particles are already tightly packed)	low  can be compressed  (particles are forced closer together)
particle energy levels	low (particles vibrate around a fixed point only)	moderate (particles can move and flow but slowly)	high (particles moving rapidly and freely)
examples	wood, metal, stone, plastic	water, milk, bleach, acid	air, oxygen, carbon dioxide

matter - any substance that has mass and takes up space (volume)

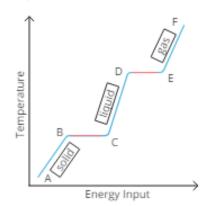
properties - characteristics or features

density - the mass of a substance per volume (density = mass + volume)

#### Melting and Boiling Points

B – C When a solid substance is heated, the particles gain energy and begin to move around more.

When a solid reaches its melting point, the particles begin to break off from the uniform structure and are free to flow. The solid melts into a liquid.



D - E When a liquid substance is heated, the particles gain energy and begin to move around more. When a liquid reaches its boiling point, evaporation occurs and the liquid boils. Liquid particles break free and evaporate into a gas.

Every pure substance has a specific melting and boiling point. The purity of a substance can be checked for using knowledge of these specific melting and boiling points.

For example, pure water boils at 100°C whereas pure ethanol boils at 78°C.

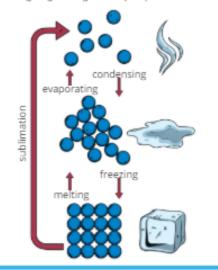
Ice melts at 0°C, and iron has a melting point of 1538 °C.

If a substance contains any impurities (dissolved solids), then its melting and boiling point will extend over a range of temperatures.

#### Changes of State

The arrangement of particles changes when the substance changes state.

Sublimation is when a solid changes to a gas, without going through the liquid phase.



#### Gas Pressure

Gas pressure is the force exerted by the gas particles on the wall of the container it is in. The more frequently air particles hit the walls, the higher the pressure rises.

Gas pressure is affected by:

- · amount of gas;
- volume of container;
- · temperature.

High gas pressure can be created by a high volume of particles in a small space, or with a high temperature.

An inflated balloon will shrink if placed in ice water and expand when placed in hot water.

#### Energy Knowledge Organiser

#### Key Words

conduction	The transfer of energy through a material by particles colliding with each other when they vibrate.
convection	The transfer of energy through a fluid by particles colliding with each other.
dissipation	The transfer of energy from a system to the surroundings. Often described as wasted energy.
energy pathway	A way in which energy is transferred from one store to another.
energy resource	A system that can store large amounts of energy. They can often be used to generate electricity.
energy store	A way that energy is stored in or by objects due to their motion, position, shape or processes.
energy transfer	The movement of energy from one store to another.
insulator	A material that does not allow energy to transfer through it easily.
radiation	The transfer of energy as waves.
system	A group of objects.
temperature	A measurement of the average kinetic energy of the particles in a substance. Measured in degrees Celsius (°C).

#### **Energy Stores**



#### **Chemical Store**

The energy stored in the bonds of a substance or group of substances. Examples include the chemicals inside a battery, food or muscles.



#### **Kinetic Store**

The energy stored in a moving object.



#### **Elastic Potential Store**

The energy stored when an object has been stretched or compressed.



#### Thermal Store

The total energy of the particles in an object. The more energy there is in this store, the higher the temperature of the object.



#### **Gravitational Potential Store**

The energy stored when an object is lifted in a gravitational field.



#### **Nuclear Store**

The energy stored in the nucleus of an atom.



#### Magnetic Store

The energy stored when repelling poles have been pushed closer together or when attracting poles have been pulled further apart.

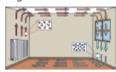


#### **Electrostatic Store**

The energy stored when repelling charges have been pushed closer together or when attracting charges have been pulled further apart.

#### Energy Pathways

#### Heating via Particle Movement



Energy is transferred by conduction or convection because of a temperature difference between two objects.

#### \* = = = = =



Heating via Radiation

Energy is transferred by waves.

#### Work Done Electrically



Energy is transferred by a current when charges move due to a potential difference.

#### Work Done Mechanically



Energy is transferred by a force making something move through a distance.

#### **Energy Transfers**

#### **Energy Transfers**

Energy transfers can be displayed in an energy transfer diagram.

The boxes identify the parts of the system where energy is stored. The type of energy store is labelled underneath each box.

The arrows represent the pathways that transfer energy from one store to the next.



When energy is transferred, the total amount of energy is **conserved** because energy can only be stored or transferred. It cannot be created or destroyed.

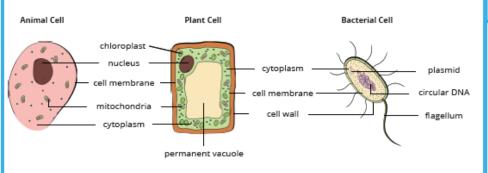
#### **Energy Resources**

Renewable energy resources can be replenished and will not run out.

Non-renewable energy resources cannot be replenished in a lifetime and will eventually run out.

Energy Resource	Advantages	Disadvantages
biofuels (renewable)	<ul> <li>In theory, carbon dioxide released by burning the biofuel is balanced by carbon dioxide taken in during growth.</li> <li>Crops can be grown to meet demands.</li> </ul>	Deforestation may be used to clear land for farming.     Supply may be affected by a poor growing season.
fossil fuels (non-renewable)	The output is not affected by the time of day or weather conditions.	The process releases carbon dioxide into the atmosphere, contributing to global warming. The process releases sulfur dioxide which causes acid rain. Habitats are destroyed when fossil fuels are mined.
geothermal (renewable)	<ul> <li>Power stations have a predictable output.</li> <li>The output is not affected by the time of day or weather conditions.</li> </ul>	Local habitats are destroyed when the power stations are built.     Drilling releases some carbon dioxide.
hydroelectric (renewable)	The output is not affected by the time of day or weather conditions. No greenhouse gases are released once it has been built.	<ul> <li>The local area is flooded to create the dam which affects the habitats of organisms close to the dam.</li> <li>The output could be affected by drought if the reservoirs dry up.</li> </ul>
nuclear (non-renewable)	<ul> <li>The output is not affected by the time of day or weather conditions.</li> <li>No greenhouse gases are released once it has been built.</li> </ul>	The process produces hazardous waste. An explosion would affect local habitats for many years. Mining uranium causes habitats to be destroyed.
solar (renewable)	No greenhouse gases are released once it has been built.     They can be used in remote locations.	Unreliable in cloudy areas and does not work at night.     A lot of solar panels are needed. So, habitats could be damaged to install them.
tides (renewable)	Tides are very predictable. The process produces a steady output of electricity. No greenhouse gases are released once it has been built.	The placement of barrages damages the habitats or organisms that live in river estuaries.  The noise of the turbines can affect animals that use echolocation.
waves (renewable)	No greenhouse gases are released once the wave generators have been installed.	<ul> <li>Less electricity is generated when there is little or no wind as there are fewer waves.</li> <li>The cables and buildings needed spoil the shoreline.</li> <li>The wave generators might affect the habits of marine life and birds nearby.</li> </ul>
wind (renewable)	No greenhouse gases are released once the turbines have been built.	No electricity is generated when there is little or no wind. Local people often dislike the sight and noise of the turbines. Large wind farms disturb the local habitats.

#### KS3 Cells and Organisation Knowledge Organiser



#### The components of a cell each have different functions.

Sub-Cellular Structure	Function
nucleus	Controls the activities of the cell. It contains genetic material (DNA), which is packaged into structures called chromosomes.
circular DNA	The DNA of bacteria found free in the cytoplasm.
mitochondria	Contain the enzymes needed for aerobic respiration, which releases energy for the cell.
chloroplasts	Contain a pigment called chlorophyll, which absorbs light to provide energy for photosynthesis.
cell wall	Helps to strengthen the cell and provides support for the plant.
cell membrane	Controls the movement of substances into and out of the cell.
cytoplasm	A jelly-like substance that fills the cell, where most chemical reactions occur.
flagellum	A tail-like structure that allows bacteria to move around.
permanent vacuole	Filled with cell sap to keep the cell rigid to support the plant.
plasmids	Plasmids are small rings of DNA that code for specific features, such as antibiotic resistance.

#### Different cell types contain different sub-cellular structures.

Sub-Cellular Structure	Animal Cell	Plant Cell	Bacterial Cell
nucleus	✓	✓	k
circular DNA	×	×	✓
mitochondria	·	·	k
chloroplasts	×	·	k
cell wall	×	·	✓
cell membrane	·	·	✓
cytoplasm	·	·	✓
flagellum	k	×	✓
permanent vacuole	k	✓	k
plasmids	k	k	✓

#### Levels of Organisation



A cell is the smallest unit of a living organism. It contains structures needed to carry out life processes.



A tissue is a group of cells of the same type.

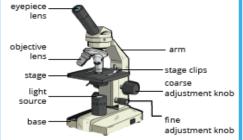


An organ is a group of different tissues working together to carry out a job.



An organ system is a group of different organs working together to perform a particular function.

#### Parts of a Light Microscope



#### Using a Light Microscope

- Plug in the microscope and turn on the light.
- Place the slide on the stage and hold it in place with the stage clips.
- Turn to the objective lens with the lowest magnification.
- Look down the eyepiece lens and use the adjustment knobs to focus the specimen.
- Increase the magnification by turning to a higher power objective lens, then use the fine adjustment knob to bring the cells back into focus.

#### Organ System Functions

Organ System	Function
musculoskeletal system	Muscles and bones working together support and move the body.
reproductive system	Produces sperm (males) and eggs (females). In females, this is where the foetus develops.
respiratory system	Takes in oxygen from the air and removes carbon dioxide from blood.
immune system	Protects the body against infections.
digestive system	Breaks down and absorbs food molecules.
circulatory system	Transports substances around the body.

# 

# Specialised Cells

Each type of cell has slightly different organism is performed by different cells. Each function carried out by the

Name	Diagram	Functions	Adaptions
root hair cell	T	To absorb water and minerals from the soil.	Long protrusion fits between grains of soil and provides a large surface area for the absorption of water and minerals into the cell.
palisade cell		To carry out photosynthesis and make food for the plant.	Lots of chloroplasts to absorb light energy for photosynthesis. Its tall, long shape gives the cell a large surface area to maximise the absorption of light.
sperm cell		To travel to and fuse with an egg cell for fertilisation.	Long tail for movement to the egg and lots of mitochondria to release energy to allow the sperm to move.
muscle cell	No.	To help the body to move.	Contains bands of protein that change shape to contract and relax the muscle. Lots of mitochondria to provide energy for muscle contraction.
nerve cell		To carry nerve impulses around the body.	Long fibres carry electrical impulses up and down the body and branching dendrites at each end connect to other nerves or muscles.
ciliated epithelial cell	26	To move mucus away from the lungs.	Tiny hairs called cilia to help waft mucus along the airways. Lots of mitochondria release energy for the cilia to move.
red blood cell		To transport oxygen around the body.	Biconcave shape increases the surface area for the diffusion of oxygen. No nucleus so that there is more room for haemoglobin, which binds oxygen molecules.
white blood cell		To fight pathogens which cause disease.	Some can change shape to squeeze out of blood vessels and engulf pathogens. Some can produce antibodies or antitoxins.
egg cell		To be fertilised by the sperm cell.	The cytoplasm contains nutrients for the developing embryo. The membrane changes after fertilisation to stop any more sperm getting in.

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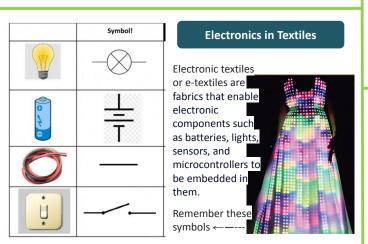
	nas hay en tu familia? (How many our family?) Quizlet link	1.2.¿Cómo eres? (Ho Quizlet link	ow are you like?)	2.¿Cómo te llevas Quizlet link	con tu familia? (How o	lo you get on with your family?)
En mi familia tengo- In my family I have  Somos en mi familia - In my family we are  Hay personas en mi familia- there are people in my family  Soy I es I am / He/she is	Mi abuela- my grandmother Mi abuelo- my grandfather Mi madre- my mother / Mi padre- my father Mi hermano menor- my younger brother Mi hermana mayor- my older sister Mi tío- my uncle / Mi tía-my aunt Mi primo- my cousin (male) Mi prima-my cousin (female) Mi madrastra- my step mother Mi padrastro- my step father Mi hermanastro- my step brother Mi hermanastra - my step sister Mis padres- my parents  Hijo único - only child (male) Hija única - only child (female)	Yo tengo - I have Tú tienes - you have Él / ella tiene - he/she has Mi hermano tiene - my brother has Mi padre y yo tenemos- my father and I have Mis padres tienen - my parents have	El pelo (the hair)  Castaño - brown Negro- black Rubio - blonde Pelirrojo- ginger Liso- straight Ondulado- wavy Rizado- curly Corto - short Largo- long A media melena - mid-length	I get on well with my be  Me llevo mal / fatal ces - I get on badly/ aw because he is  Me gusta mi primo/ rya que es I like my because he/she is  Mi madre es bastant mother is quite/ very/ a	on mi abuelo dado que ful with my grandfather mi madre/ mi hermana v cousin/ mother/ sister e / muy/ un poco my	Character (positive): activo/a(s)- active / alegre(s)- cheerful divertido/a(s) - fun/funny entusiasta(s) - enthusiastic generoso/a(s)- generous rápido/a(s) - fast sincero/a(s) - sincere simpático/a(s)-nice tímido/a(s)- shy Character (negative): Antipático/a(s)- not friendly agresivo/a(s)- aggressive aburrido/a(s)- boring tonto/a(s)- silly arrogante(s)- arrogant nervioso/a(s)- nervous perezoso/a(s)- lazy/ torpe(s)- clumsy
Somos - we are  Están - they are	Gemelos - twins  Divorciados- divorced	En el pasado tenía - In the past I used to have Hace cinco años tenía- five years ago he/she used to have	Los ojos (the eyes)  Azules - blue Marrones - brown Verdes- green Negros- black Grandes- big Pequeños - small	my father used to be Antes mis padres era used to be	adre era- ten years ago an- before my parents my ideal friend would be	Physical appearance:
3.¿C	l uántas mascotas tienes? (How many ந	l pets do you have?) Quizl	L <u>et link</u>	4. ¿Qué hay en el d	estuche? (What is in my	 / pencil case?)
En casa tengo - at home I have  En casa no tengo - at home I don't have  Mi amigo/a tiene - my friend has  Me gustaría tener - I would like to have	un caballo – a horse un conejo – a bunny un hámster – a hamster un pájaro – a bird un perro – a dog un pez – a fish un gato - a cat un pingüino – a penguin un ratón – a mouse una cobaya – a guinea pig una serpiente – a snake una tortuga – a tortoise	que se llama Maravilla (that is called Wonder)  que se llaman (that are called)	es ( she / he / it is )  pequeño/a- small grande - big gordo/a - fat delgado/a- slim, skinny bonito/a - pretty feo/a- ugly tímido/a - shy rápido/a- fast	En mi estuche hay (In my pencil case there is/are)  En el estuche no tengo (In my pencil case I don't have)  Necesito (I need)  Mi amigo tiene (My friend has)	Un bolígrafo (A pen) Un lápiz (A pencil) Un sacapuntas (A pencil sharpener) Un subrayador (A highlighter) Una goma (A rubber) Una regla (A ruler) Un pegamento (A glue stick)	de color – the colour  blanco/a- white amarillo/a- yellow morado/a- purple negro/a- black rojo/a- red verde - green azul- blue gris- grey marrón – brown rosa – pink naranja- orange
En el pasado tenía- in the past I used to have	unos caballos – some horses cinco conejos – five rabbits tres hamsters – three hamsters diez perros – ten dogs doce peces – twelve fish muchos gatos – lots of cats	Ilamado(a)(s) Melón (called Melon)	son (they are)  agresivos/as – aggressive activos/as – active alegres – cheerful	Me gustaría tener (I would like to have)  En la escuela primaria tenía (At primary school I used to have)	Unos lapices (Some pencils)  Unos subrayadores (some highlighters)  Unas tijeras (Scissors)	de colores – the colours  claros/as– light oscuros/as – dark llamativos/as– bright,flashy

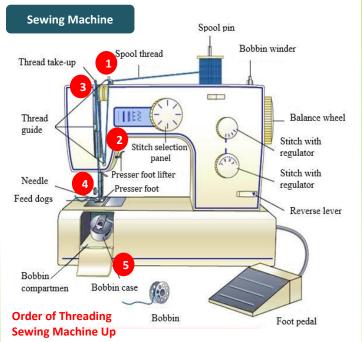
PRES	ENT TENSE	PRESENT TENSE	PRESENT TENSE	FREQUENCY EXPRESSIONS
REGUL	AR VERBS	TENER ( TO HAVE)	SER ( TO BE)	<b>Hoy en día</b> – Nowadays
<b>Yo</b> → <b>-AR</b> : -0	Yo→ -ER/IR: -o	Yo tengo – I have	Yo soy – I am	De momento – At the moment
tú→ -AR: -as	tú→ -ER/IR: -es	Tú tienes – You(sg.) have	Tú eres – You(sg.) are	Normalmente – Normally
Él /ella→ -AR: -a	él/ella→ -ER/IR: -e	Él / Ella tiene – He / She has	<b>ÉI / Ella es</b> – He/She is	Generalmente – Generally
nosotros/as→ -AR: -amos	nosotros/as→ -ER: -emos IR: -imos	Nostros(as) tenemos – We have	Nostros(as) somos – We are	Todos los días – Every day
vosotros/as→ -AR: -ais	vosotros/as→ -ER: -eis IR: -ís	Vosotros(as) tenéis – You(pl.) have	Vosotros(as) sois – You(pl.) are	<b>Hoy</b> – Today
ellos/as→ -AR: -an	ellos/as→ -ER/IR: -en	Ellos / Ellas tienen – They have	Ellos / Ellas son – They are	
PRETE	RITE TENSE	PRETERITE TENSE	PRETERITE TENSE	FREQUENCY EXPRESSIONS
REGUL	AR VERBS	TENER ( TO HAVE)	SER ( TO BE)	Ayer – Yesterday
Yo→ -AR: -é	Yo→ -ER/IR: -í	Yo tuve – I had	Yo fui – I was	Anoche – Last night
tú→ -AR: -aste	tú→ -ER/IR: -iste	Tú tuviste – You(sg.) had	Tú fuiste – You(sg.) were	La semana pasada – Last week
Él /ella→ -AR: -ó	él/ella→ -ER/IR: -ió	ÉI / Ella tuvo – He/ She had	ÉI / Ella fue – He/ She was	El fin de semana pasado – Last weekend
nosotros/as→ -AR: -amos	nosotros/as→ -ER/IR: -imos	Nostros(as) tuvimos – We had	Nosotros(as) fuimos – We were	El mes pasado – Last month
vosotros/as→ -AR: -asteis	vosotros/as→ -ER/IR: -isteis	Vosotros(as) tuvisteis – You(pl.) had	Vosotros(as) fuisteis – You(pl.) were	Hace tres semanas – Three weeks ago
ellos/as→ -AR: -aron	ellos/as→ -ER/IR: -ieron	Ellos / Ellas tuvieron – They had	Ellos / Ellas fueron – They were	El año pasado – Last year
NEAR FL	JTURE TENSE	NEAR FUTURE TENSE	NEAR FUTURE TENSE	FREQUENCY EXPRESSIONS
REGUL	AR VERBS	TENER ( TO HAVE)	SER ( TO BE)	La próxima semana – Next week
Yo→ voy a + infinitive verb	(-ar/-er/-ir)	Yo voy a tener- I am going to have	Yo voy a ser- I am going to be	El fin de semana que viene – Next weekend
tú→ vas a + infinitive verb (-ar/-er/-ir)		<b>Tú vas a tener</b> – You(sg.) are going to have	<b>Tú vas a ser</b> – You(sg.) are going to be	En cuatro días – In four days
Él /ella→ va a + infinitive ver	b (-ar/-er/-ir)	Él / Ella va a tener – He/She is going to have	ÉI / Ella va a ser – He/She is going to be	El próximo año – Next year
nosotros/as→ vamos a + inf	initive verb (-ar/-er/-ir)	Nosotros(as) vamos a tener– We are going to have	Nosotros(as) vamos a ser – We are going to be	El próximo mes – Next month
vosotros/as→ vais a + infinit	tive verb (-ar/-er/-ir)	Vosotros(as) vais a tener– You(pl.)are going to have	Vosotros(as) vais a ser – You(pl.)are going to be	
ellos/as→ van a + infinitive v	verb (-ar/-er/-ir)	Ellos / Ellas van a tener – They are going to have	Ellos / Ellas van a ser – They are going to be	

Knowledge Organiser

Haggerston School









A paper pattern acts as a template, showing you where to mark and then cut the fabric.
Patterns can be designed to specific size and design.

# Running Stitch Separate of the separate of th





**Embroidery** is the craft of decorating fabric using a needle to apply **thread**. Embroidery stitches can also be used to hold applique in place.

#### Applique



 Cut your pattern piece using paper & scissors



2. Use a pin to attach your pattern to the fabric.



3. Cut around your pattern and once complete, remove your pin



4. Use a pin to attach to your larger piece of fabric



5. Stitch around the edge to secure in place

#### **Classification of Fibres**

A **fibre** is fine like hair in structure. Fibres that are **twisted** together are called **thread/yarn**. **Fabric** is **cloth** that is **made from fibres or yarn**. Depending on where they come from and how they are made, gives the fabric different characteristics and therefore suits different functions. Fibres are split into two categories:

#### **Natural Fibres**

Spinnable substances existing in nature

#### Animal

# Silk Wool

#### Plant

Cotton Calico Linen Hessian





Spinnable substances manufactured by man using chemical processes.

They are classessed as Synthetic Fibres

**Manufactured Fibres** 

Nylon, Polyester, Acrylic, Lycra, Felt\*





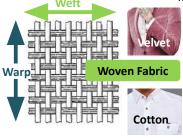


\*Felt can be made using Synthetic fibres such as acrylic or Natural fibres such as animal fur

\*\* Leather is not a fabric as it is not made up of fibres or yarns - it is a skin of an animal

#### Construction of Fabric

**Fabrics** are made from yarns, which are held together by **weaving** or **knitting**. Fabrics can also be made from **bonded fibres**.





**Woven** fabrics are made interlacing two sets of yarn, the warp and weft

Different coloured yarns can be woven together to create a pattern. Woven fabric is more structured and will hold its shape, that is is why it is often used for shirts, blazers/suits and trousers.

**Knitted** fabrics are made by interlocking one or more yarns together using loops

As a result of the interlocking loops, knitted fabrics are more flexible and elastic, that is why they are often used for socks, jumpers and sports clothing that allows movement



**Bonded** fabrics are webs of fibres which are held together by glue, stitches or heat

There are **two** types of Bonded Fabric - Felted and Non Woven Fabrics. Both are formed by through compressions but in felted fabrics no glue is used

#### Properties and characteristics of fibres and fabrics.

Fabrics and fibres have different characteristics (soft, smooth, fluffy, shiny) and properties - **what the fabric can do/how it can behave.** For instance **wool** is heat insulating and has some elasticity (property) but it is soft to feel (characteristics).

	Properties/Characteristics	Uses
Calico	Cheap, Easy to cut, dye, print on, paint, lightweight, breathable, durable, relatively hard wearing	Design prototypes, bags, curtain linings, bags, craft projects
Hessian	Rough, frays easily, breathable so resist condensation, durable, hard wearing, relatively cheap	Sacks - coffee and teas, garden bags
Lycra	Elasticity (stretchy), durable, breathable, smooth, lightweight, moisture wicking (absorbs moisture from body, keeping wearer cool/dry)	Sports wear, socks, surfing suits/swimming suits
Felt	Sound insulation, very easy to cut, available in wide range of colours, sizes and thickness, durable, heat insulating	Crafting projects, sound insulation

#### **Health & Safety**

#### Iron:

- -No talking whilst using iron
- -No distracting others when using iron
- -No touching base of iron either when on or off
- -Do not use iron around water
- -Unplug iron when not in use
- -Stand iron on platform when not in
- -Do not walk around with the iron

#### Sewing Machine:

- -No talking whilst using sewing machine
- -No distracting others when using sewing machine
- -Sew at a safe speed
- -Turn off machine if a problem occurs
- -Never try to mend machine
- -Only use a sewing machine once you have passed the 'Driving Test'

#### **Equipment:**

- -Do not stick pins or needles in skin
- -Do not point or wave around scissors
- -Do not point or wave around un-picker

#### General:

- -Do not run in classroom
- -Do not act dangerously
- -Follow instructions given by teacher
- -No shouting
- -SLANT

#### **SPaG**

#### **Grammar: Write in sentences**

A sentence is a group of words that make sense. Sentences start with a capital letter and end with a full stop, question mark or exclamation mark. All sentences contain **clauses.** You should try to use a range of sentences when writing. There are three main types of sentences.

Simple sentence: A sentence containing one main clause with a subject and a verb.

He reads.

Literacy is important.

<u>Compound sentence</u>: Two simple sentences joined with a <u>conjunction</u>. Both of these simple sentences would make sense on their own. Varying conjunctions makes your writing more interesting.

He read his book because it was written by his favourite author.

Literacy is important so students had an assembly about reading.

Complex sentence: A longer sentence containing a main clause and one or more subordinate clause (s) used to add more detail.

The main clause makes sense on its own. However, a subordinate clause would not make sense on its own, it needs the main clause to make sense. The subordinate clause is separated by a comma (s) and/or conjunction. The clause can go at the beginning, middle or end of the sentence.

He read his book even though it was late.

Even though it was late, he read his book.

He read his book, even though it was late, because it was written by his favourite author.

#### How can you develop your sentences?

1. Start sentences in different ways. For example, you can start sentences with adjectives, adverbs or verbs.

Adjective: Funny books are my favourite!

Adverb: Regularly reading helps me develop a reading habit.

Verb: Looking at the front cover is a good way to choose a reading book.

2. Use a range of **punctuation**.

#### 3. Nominalisation

Nominalisation is the noun form of verbs; verbs become concepts rather than actions. Nominalisation is often used in academic writing. For example:

It is important to **read** because it helps you in lots of ways.

Becomes: Reading is beneficial in many ways.

Germany **invaded** Poland in 1939. This was the immediate cause of the Second World War breaking out.

Becomes: Germany's invasion of Poland in 1939 was the immediate cause of the outbreak of the Second World War.

Cause	Because
And	So
Effect	Consequently
	Therefore
	Thus
Addition	And
	Also
	In addition
	Further (more)
Comparing	Whereas
	However
	Similarly
	Yet
	As with/ equally/ Likewise
Sequencing	Firstly
	Initially
	Then
	Subsequently
	Finally
	After
Emphasis	Importantly
	Significantly
	In particular
	Indeed
Subordinate	Who, despite, until, if,
	while, as, although, even
	though, that, which





# Year 7 Knowledge Organiser



