



OUR KEY DRIVERS



RESILIENCE

Learn from failures, work through problems and never give up. Be better today than you were yesterday.



ASPIRATION

Aim high and set yourself challenging goals both academically and personally.
What does the future hold for you?



COMMUNITY

Accept support and offer it. Give something back to the Academy and the community.



RESPONSIBILITY

Be responsible for your actions, celebrate successes and learn from your failures. Do not make excuses.



CONFIDENCE

Don't be afraid to get things wrong. Believe in yourself and your abilities and step outside your comfort zone.

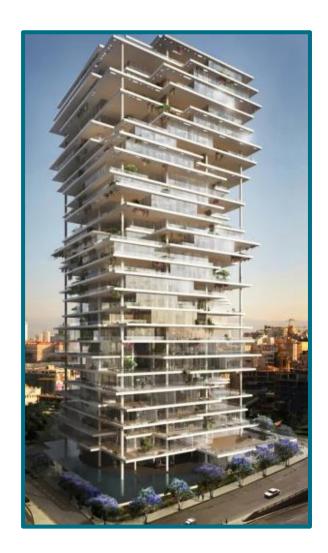
Introduction

Foundational Knowledge and Retrieval Practice

If we try and build a house on sand it will fall down, as the foundations are not secure and over time will disappear. That's a bit like what happens if your teacher tries to get you to understand complex ideas, but you haven't yet grasped the basics on which to connect the new information, and therefore you cannot build on it and develop what scientists call **schema** in your mind.

To support you in having foundational knowledge in each subject, your teachers have identified some key basic knowledge that they will teach you first, but then you will be asked to consolidate this by reviewing it at home and completing a quiz about it for homework - this process is called **retrieval**.

Research tells us that the process of **keep reviewing key chunks** of material by reading it, rehearsing it, trying to recall it and checking you got it right will help you to remember it longer term, so that you feel more confident in your lessons when teachers do refer to it.



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Introduction

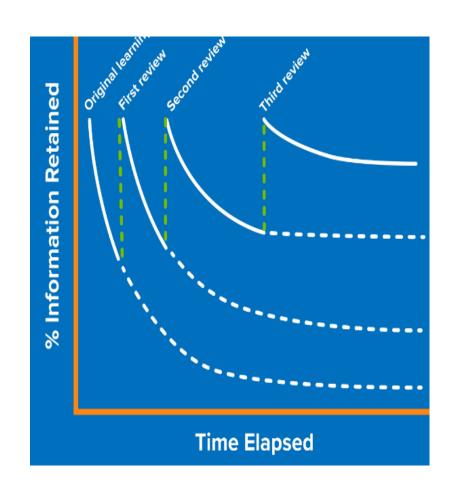
The Forgetting Curve

A psychologist called Hermann Ebbinghaus discovered that shortly after you have learned something, you quickly forget some of it. He represented this process with this' **forgetting curve**'.

He found however that if you reviewed that information at specific time points after having first learned it – the rate at which you forget can be reduced. He called this 'spaced practice'

To help you to remember key information your teachers will do the following:

- Identify in lesson key terms or pieces of information that are important to learn.
- Tell you which bits of the subject knowledge organiser to review and recall at home.
- Set you a homework quiz to check what you can recall.
- In future quizzes include some questions already tested.
- Revisit key questions that most of the class struggled with.



English: Myths and Legends: Epic Poetry

<u>Using this knowledge</u> <u>organiser:</u>

Every **Week A** you will be given **ten pieces of vocabulary**.

Across this week, you will need to find a coherent definition for each piece of vocabulary and practice the spelling.

This will be tested as part of your English lessons, across that week.

In **Week B**, you will use these same words to complete a short piece of **writing**. You will use the information on this sheet to support you.

At the end of the term, you will complete a project that utilises all you have learnt across this half term.

Myths and Legends:

Through journeys of heroes, villains and the inspirations of many great narratives, Myths and Legends gives us a chance to explore the ways in which human nature is composed. A chance to consider what makes us human, to debate what is morally good and right and to question, have we changed so much over thousands of years?

Week A/B 1:

- 1. Yield
- 2. Pestilence
- 3. Plague (verb)
- 4. Fiercely
- 5. Sceptre
- 6. Loom
- 7. Provoke
- 3. Wreath 9. Illustrious
- 10. Clamour

Week A/B 2:

- . Sovereign
- 2. Bountiful
- 3. Labour
- 4. Hasten
- 5. Dishonourable
- 6. Covetous
- 7. Rending
- B. Bewildered
- Gambolling
 Inexplicable
- 10 41

Week A/B 3:

- 1. Fortune
- 2. Parched
- 3. Burrow
- 4. Serpent
- 5. Sacrifice
- 6. Writhe
- 7. Foul
- 8. Snuffling
- 9. Suspicion
- 10. Alarmed

Week A/B 4:

- 1. Toil
- 2. Convulsive
- 3. Delineate
- 4. Ensure
- 5. Inanimate
- 6. Inarticulate
- 7. Lassitude
- 8. Infuse
- 9. Endeavour
- 10. Detain

Week A/B 5:

- 1. Cruelty
- 2. Vicious
- 3. Continual
- 4. Oblation
- 5. Lack
- 6. Marvel
- 7. Withdraw
- 8. Dissemble
- 9. Cower
- 10. Doom

Week A/B 6:

- . Prevent
- 2. Devastation
- 3. Principles
- 4. Monstrous
- Reliable
 Inevitable
- 7. Prevent
- B. Mournful
- 9. Clusters
- 10. Degrade





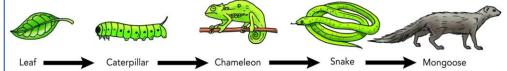






Science: Ecosystems

Food Chains and Food webs



A food chain is a way of representing the energy transfer between organisms.

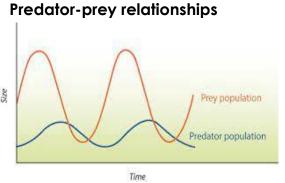
The first organism in a food chain is called a **producer** because it makes its own food.

The primary consumer eats the producer, the secondary consumer eats the primary consumer, and is eaten by a tertiary consumer.

Herbivore = consumes only plants animals

Carnivore = consumes only

Omnivore = consumes plants and animals Apex predator = top of the food chain



When the prey population is low, the predator population will decrease as they have less food.

This will cause the prey population to increase as they are being hunted less. This will cause the predator population to increase as they have more food.

3 adaptations of predators: camouflage, sharp teeth and claws, eyes on front

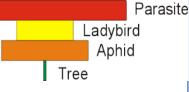
3 adaptations of prey: camouflage, eyes on side pf head, weapons (e.g. horns)

Pyramids of numbers and biomass

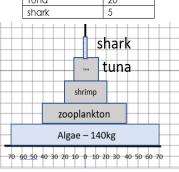
A pyramid of numbers shows the population of each species in a food chain. This sometimes might not be a pyramid, as 1 tree could

support 1000s of flies.

A pyramid of biomass shows the dry mass of each species in a food chain. It can also represent energy. This will always be a pyramid.



Organism name	Biomass
	(kg)
Algae	140
zooplankton	80
Shrimp	40
Tuna	20
shark	5



Plant reproduction

What is the plant version of this?

Human: Sperm + egg = embryo Plant: Pollen + ovum = seed

Sexual reproduction happens in flowering plants.

Seed dispersal: It is not beneficial for the seeds to grow near the parent plants because otherwise they would have to compete for light, water and minerals.

As a result of this, plants have adaptations to disperse their seeds.

By wind, by sticking to or being eaten by animals, by water, or

by explosion









Science: Energy

The first law of thermodynamics states that energy can **never be created or destroyed**; it can only be changed from one form to another

Energy Stores

Thermal: energy a substance has due to temperature.

Kinetic: energy an object has due to moving.

Gravitational potential: energy an object has due to it's height from the ground.

Chemical: energy stored in food, fuels

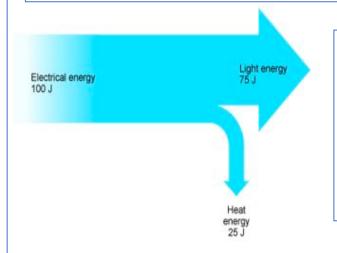
and batteries.

Elastic potential: energy stored in a springy object when it is stretched or squashed.

Energy can be transferred from one store to another by thermal, sound, light or electrical means. It measured in Joules (J).

GPE= mass x gravity x height
Earth's gravity is 10 N/kg.
% Efficiency= (useful output energy / input energy)
x100
Cost= power x time x price

Household bills are measured in kilowatt hours (kWH).



A **Sankey diagram** shows the input energy, the useful output energy and the wasted energy. The arrows are in proportion to the amount of energy.

Calorie: Amount of energy required to warm 1g of water by 1°C at a constant pressure.

Non-renewable (will run out): coal, oil and gas. Also known as fossil fuels.

Renewable (will not run out): solar, wind, geothermal, tidal, hydroelectricity, biomass.

Science: Reactions

Acids: substances that produce more hydrogen ions (H+) than hydroxide ions (OH-) in solution. pH 0-6.

Alkalis: substances that produce more hydroxide (OH-) ions than hydrogen ions (H+) in solution. pH 8-14.

Base

Neutral: is pH 7, e.g. water.

Base: substance that reacts with an acid to neutralise it and form a salt.

A neutralisation reaction is a reaction between an acid and a base.

$$H+(aq) + OH-(aq) \rightarrow H2O(I)$$

A property is a quality or characteristic of a material.

Metals are typically hard, ductile (drawn into wires) malleable (beaten into shape) and sonorous (make a sound when struck). They are good conductors of thermal energy and electricity. They have high melting and boiling points due to the strong forces between molecules.

Non-metals are typically soft, cannot conduct electricity and are good insulators of thermal energy. They have low melting and boiling points due to the weak forces between molecules.

Metal + oxygen → metal oxide

 $X + O_2 \rightarrow XO$

Metal + water → metal hydroxide + hydrogen

 $X + H_2O \rightarrow XOH + H_2$ Metal + acid \rightarrow metal salt + hydrogen

Oxygen, heat and fuel is needed for combustion to take place.

Most reactive

Potassium

Sodium

Calcium

Magnesium

Aluminium

Zinc

Iron

Tin

Lead

Copper

Silver

Gold

Platinum







Machic	olation	Portcullis		Drawbridge	
Variations: Machicolations	Definition: Floor opening in between battlements, which protrude (stick out) from the castle wall, used to fire weapons through.	Variations: None	Definition: A grating of iron hung over the gateway of a fortified place and lowered between grooves to prevent passage	Variations: None	Definition: A bridge that could be lifted to prevent entry, usually used over a moat, or ditch
Use it in a sentence: The defender poured boiling oil through the machicolation onto the attacker below.		Use it in a sentence: The soldier lowered the portcullis when he saw King John's army approaching in the distance.		Use it in a sentence: The attacking army were unable to reach the castle walls, as the drawbridge had been raised.	
Links to: Battlement Crenelation Murder hole Defence	Digging deeper: How successful a method of defence were Machicolations?	Links to: Gateway Defence Entry	Digging deeper: How would a portcullis be used to prevent attack?	Links to: Gateway Defence Entry Moat	Digging deeper: How would a drawbridge be used to prevent attack?





Moat		Rampart		Luxury	
Variations: Moat-like Moated	Definition: A deep and wide trench around the walls of a castle, often filled with water.	Variations: None	Definition: A protective embankment or ridge, usually constructed out of soil, which surrounds a castle.	Variations: Luxurious Luxuries	Definition: Something that has been added for pleasure or comfort but is not necessary.
Use it in a sentence: The moat can be crossed by a drawbridge.		Use it in a sentence: The ramparts formed a protective ring around the castle, making it very difficult for attackers to approach the castle.		Use it in a sentence: By the late medieval period, luxury castles began to be built, to show off wealth, rather than for defence.	
Links to: Drawbridge Rampart Defence	Digging deeper: How did a moat slow down attackers?	Links to: Barrier Embankment Ridge	Digging deeper: What was the benefit of adding ramparts to your castle?	Links to: Wealth Comfort Position Environment	Digging deeper: What features would you expect to see in a luxury castle?





Security		Authority		Rebellion	
Variations: Secure	Definition: Measures taken to protect against attack	Variations: Authorise Authorities	Definition: The right to be in power.	Variations: Rebel Rebels	Definition: Armed resistance (opposition) to the government or other people in positions of power.
Use it in a sentence: William I ordered the building of castles across England to improve his security as King of England.		Use it in a sentence: The king asserted his authority over the country, using castles a symbol of his power and authority.		Use it in a sentence: Repeated rebellions against William I led to the building of castles	
Links to: Safety Protection Control Power rebellion	Digging deeper: How did William I secure his position?	Links to: Control Power Security	Digging deeper: Where did medieval kings think their authority came from?	Links to: Defiance Resistance Insurrection Revolt Uprising Revolution	Digging deeper: Why did the Saxons rebel against William I?





Curtai	n Wall Crei		Crenelations		ocracy
Variations: None	Definition: A defensive wall that was both tall and thick, usually with a moat or ditch in front.	Variations: Crenelation	Definition: The battlements of a castle – a wall around the top of a castle, with regular spaces for people to shoot arrows through.	Variations: Aristocrat Aristocratic	Definition: The group of people that included the nobility (earls and lords) who were believed to be more important than ordinary people.
Use it in a sentence: The curtain wall was so tall that it was impossible to climb over.		Use it in a sentence: The castle was topped by crenelations, from behind which an archer shot arrows.		Use it in a sentence: The king was surrounded by members of the aristocracy, who helped him to run the country.	
Links to: Defence fortification Battlements Crenelation Rampart	Digging deeper: Why did curtain walls deliberately not have many doors or windows?	Links to: Battlement Fortification Castellation	Digging deeper: Hat was the benefit to crenelations?	Links to: Nobility Gentry Monarch Earls Lords Barons	Digging deeper: How did life for the aristocracy differ in comparison to life for the peasants?





Pea	sant	Se	erf	Mor	narch
Variations: Peasantry	Definition: A usually uneducated person who was of low social status.	Variations: Serfdom	Definition: A servant or worker who was treated as part of the land that they worked on, so if the land was sold they were sold too. Had few rights.	Variations: Monarchy Monarchical	Definition: A person who rules over a country, kingdom, or empire, such as a king or queen.
Use it in a sentence: The peasants were seen as the least important people in England.		Use it in a sentence: The serfs had very few rights, as they were seen as property that was owned along with land; because of this, they often lived and worked in very poor conditions for little or no pay.		Use it in a sentence: After the death of Elizabeth II in 2022, King Charles III became England's new monarch.	
Links to: Poverty Farmer Village	Digging deeper: What was daily life like for medieval peasants?	Links to: Servant Peasant Villein	Digging deeper: Why were the serfs so unhappy that the rebelled in 1381?	Links to: King Queen Ruler Authority Aristocracy Nobility	Digging deeper: What are the characteristics of a good monarch?





Nobility		Aristocracy		Feudalism	
Variations: Noblemen Nobleman Nobles	Definition: A group of people who form the ruling class of a country.	Variations: Aristocrat Aristocratic	Definition: The group of people that included the nobility (earls and lords) who were believed to be more important than ordinary people.	Variations: Feudal system	Definition: The organisation of England's society – a social structure or hierarchy introduced by William I
Use it in a sentence: Queen Elizabeth I was helped by the nobility, who advised her on important decisions.		Use it in a sentence: The king was surrounded by members of the aristocracy, who helped him to run the country.		Use it in a sentence At the top of the feudal system was the king, followed by his Barons, then Knights, and then, finally the peasants or villeins.:	
Links to: Aristocracy Monarch Hierarchy.	Digging deeper: What responsibilities did the nobility have?	Links to: Nobility Gentry Monarch Earls Lords Barons	Digging deeper: How did life for the aristocracy differ in comparison to life for the peasants?	Links to: Hierarchy Nobility Monarch peasants	Digging deeper: How was life different for different groups within the feudal system?





Domesd	ay Book	Agric	ulture	Merc	hants
Variations: None	Definition: Survey carried out across England by William I, to assess England's wealth and population for an army.	Variations: Agricultural	Definition: Farming as the basis for daily life.	Variations: Merchants	Definition: Trades people who made money by buying and selling goods.
Use it in a sentence: William I used the Domesday Book to find out how wealthy England was after he conquered the country in 1066.		Use it in a sentence: Medieval England was very agricultural – the main job of the peasants was growing food.		Use it in a sentence: The town's merchants sold all sorts of goods – peasants could buy everything from bread to flowers at the local market.	
Links to: Census	Digging deeper: What can we learn from the Domesday Book about England in 1069?	Links to: Economy Society Wealth Peasants	Digging deeper: What was daily life like for medieval peasants?	Links to: Trader Storekeeper	Digging deeper: What sort of items would have been traded at a medieval market?





Kniį	Knights		Villein		Tithe	
Variations: Knight	Definition: A medieval warrior who fought on horseback and served the king.	Variations: Villeins	Definition: Norman term for a medieval peasant, often unfree and legally tied to their local area and landlord.	Variations: Tithes	Definition A 10 per cent tax that was collected from all people, that was paid to the Church.:	
Use it in a sentence: The medieval knights were fierce fighters and excellent horsemen.		Use it in a sentence: The villeins were fed up of poor living conditions and decided to rebel.		Use it in a sentence: The tithes were collected every January.		
Links to: Warrior Fighter Soldier Hierarchy Feudal system	Digging deeper: How were knights expected to behave?	Links to: Peasant Serf Serfdom Hierarchy	Digging deeper: What was life like for villeins in the 12 th Century?	Links to: Church Taxes Finance Money	Digging deeper: What were tithes used to pay for?	





Wattle		Daub		Miasma	
Variations: Wattle and Daub	Definition: A structure made out of branches and twigs that were woven together, often coated in daub.	Variations: Wattle and Daub	Definition: A plaster-like mixture that was made out of mud, clay, and/or animal dung.	Variations: Miasmata	Definition: Evil air
Use it in a sentence: The house was made out of wattle and daub.		Use it in a sentence: The house was made out of wattle and daub.		Use it in a sentence: Medieval people believed illnesses were caused by miasma (evil air).	
Links to: Daub House Peasant Serf	Digging deeper: What were the benefits of using wattle and daub to construct houses?	Links to: Daub House Peasant Serf	Digging deeper: What were the benefits of using wattle and daub to construct houses?	Links to: Disease Black Death	Digging deeper: What caused ill health in medieval towns?





Hierarchy		Clergy		Hue and Cry	
Variations: Hierarchies.	Definition: Classifying different groups of people based on importance or value.	Variations: clergymen	Definition: People who worked for the Church, such as priests, monks, and bishops.	Variations: Outcry	Definition: A loud outcry used alarm others of a criminal.
Use it in a sentence: England had a strict hierarchy in the Middle Ages.		Use it in a sentence: The role of the clergy was to teach people how to live Godly lives, so that they would o to heaven when they died.		Use it in a sentence: Peasants were expected to use hue and cry to make sure criminals – like thieves – were caught, as it would alert everyone nearby to the problem.	
Links to: Structure Society Peasants Nobility	Digging deeper: What was the name given to the hierarchy that was introduced by the Normans?	Links to: Church	Digging deeper: What behaviours and characteristics did the clergy teach were important?	Links to: Crime Peasants	Digging deeper: What punishments were used in medieval England?

Geography - Africa





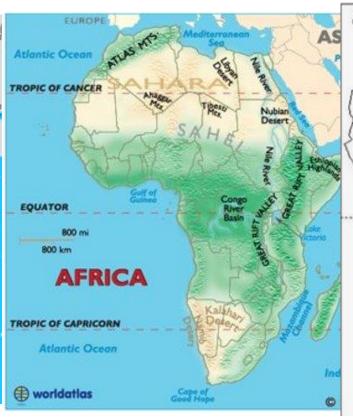
Geography - Africa

Lakes

Deserts and Mountains

Rivers







Geography – S. America



Climate

Geography – S. America

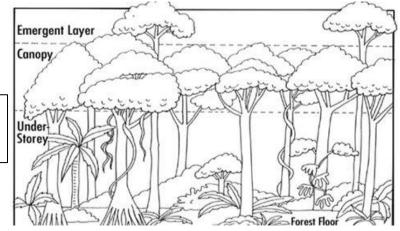
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp °C	27	27	27	28	28	29	29	30	29	28	27	27
Rainfall (mm)	235	220	245	210	180	140	150	120	130	140	160	200



Favelas



Rainforest Layers



Spanish – family & pets

Key Verbs	Family Member	Near Future Tense (2nd part)	Possessive Adjectives	Animals
Vivo con I live with Vivo en York con I live in York with Me gusta vivir con I like to live with Tengo I have No tengo hermanos - I don't have siblings Soy hijo/a único/a - I'm an only child	Mis abuelos - my grandparents Mi madrastra / padrastro -	Que se llama – that is called Que tiene años - who is years old	• Mi - my Tu - your (singular) Su - his/her Nuestro/a - our Vuestro/a - your (plural) Su - their	Un perro - a dog Un gato - a cat Un pez - a fish Un conejo - a rabbit Un ratón - a mouse Un caballo - a horse Una tortuga - a tortuga Una serpiente - a snake Una cobaya - a Guinea pig

Spanish – descriptions (1)

Key Verbs	Features	Colour	Style	Key Verb	Comparative	Adjective
Tengo - I have Tienes - You have Tiene - He/she/it has Tenemos - We have Tenéis - You have Tienen - They have		rubio - blonde rojo - red/ginger castaño - brown negro - black Azules - (blue) Marrones - (brown) Verdes - (green) grises - (grey)	rizado - curly liso - straight ondulado - wavy largo - long corto - short		también - also y - and pero - but además - moreover sin embargo - however	alto/a - tall bajo/a - short mediano/a - medium-sized gordo/a - fat delgado/a - slim feo/a - ugly guapo/a - beautiful viejo/a - old joven - young musculoso/a - muscular Soy - I am Eres - you are (sing) Es - he/she/it is Somos - we are Sois - you are (pl) Son - they
	Un po	co: a little, bastante: c	quite, muy: very	/	,	

Spanish – descriptions (2)

	Qué tiempo hace? What is the weather like?					
When / if	Weather	Opinion	Activity phrase			
• Cuando - when • Si - if	 Hace (mucho) calor - it's (really) hot Hace frío - It's cold Hace sol - It's sunny Hace viento - It's windy Hay niebla - It's foggy Hay tormenta - It's stormy Llueve - It rains Nieva - It snows 	 Me mola - I love Me chifla - I love Me interesa interests me Me fascina - fascinates me Me flipa - I'm crazy about Mi pasatiempo favorito es - My favourite hobby is No me gusta - I don't like No me importa isn't important to me No me interesadoesn't interest me 	 Bailar salsa - to dance salsa Chatear en el móvil - to chat on the phone Descansar en casa - to relax at home Escuchar música - to listen to music Jugar en la videoconsola - to play games Leer libros - to read book Navegar por internet - to search the internet Practicar deportes - to do sport Salir con mis amigos - to go out with friends Ver la tele - to watch TV Jugar al - to play Hacer - to do 			
			 Bádminton Baloncesto - basketball Balonmano - handball Béisbol Fútbol Golf Rugby Tenis Voleibol Atletismo Ballet Boxeo Ciclismo Equitación - horseriding Gimnasia Natación - swimming 			

Computing - Spreadsheets

Workbook

A spreadsheet **workbook** is made up of many sheets.

Active Cell

The **Active Cell** is the cell that is being worked in at the moment.

<u>Row</u>

Rows in a spreadsheet go across a worksheet and are labelled with a **number**.

Column

Columns in a spreadsheet go up and down a worksheet and are labelled with a **letter**.

Cell Reference

A **cell reference** is made up of the column letter followed by the row number e.g. D8.

Currency

Used to represent **monetary** values e.g. £,\$ or \in .

What is a Spreadsheet?

A spreadsheet is a file made of rows and columns that help sort data, arrange data easily, and calculate numerical data using mathematical formulas and the data in cells. You can use spreadsheets to enter data, calculate equations and create charts and graphs.

Modelling with Spreadsheets

Computer models of mathematical data, such as budgets, are usually done using a spreadsheet application that processes and performs calculations on the data entered by the user.

Formula

A **formula** is a calculation in a spreadsheet. It uses the **cell references** instead of the values contained in the cells. **Formulas** are usually simple calculations, e.g. adding two or more numbers together. They always start with an equals sign **(=)**.

Calculation	Symbol Used	Example
Adding	+	=A1+B1
Subtracting	-	=A1-B1
Multiplying	*	=A1*B1
Dividing	/	=A1/B1

Functions

Functions_make more complex calculations. Simple and regularly used functions include:

Function	Description
SUM	adds values in selected cells
MIN	finds smallest value
MAX	finds largest value
AVERAGE	finds the average value

Like **formulas**, all **functions** start with an equals sign **(=)** followed by the **function's** name.

Religious Studies- Stewardship

Key Words

Stewardship- This is the belief that human beings have a moral responsibility to take care of the planet and all living beings.

Climate Change -The rise in average global temperatures due to human activity, e.g. burning of fossil fuels.

Creation Story- Most religions teach that God created the world in a perfect state. Creation stories and contained in holy books and detail how God carefully and purposely designed creation.

Khalifah- In the Qur'an , God calls Adam (the first man God created) his khalifah . This means that God entrusted Adam and all future generations of people to look after the world. A khalifah is a steward – someone who looks after something for someone else.

Environment al Activism- The actions of individuals or groups that protect or aid the environment. This could include protests, boycotts and other campaigns.







The idea of **stewardship** is thousands of years old. It is the idea that God created the world and everything in it. Therefore, most Christians believe that God gave to humans a special responsibility to guard the planet and use its resources wisely and respectfully.

"God took man (meaning Adam) and put him in the Garden of Eden to work it and take care of it." (Book of Genesis) This quotation is from the book of Genesis in the Bible; it contains the Christian creation story where God creates the Earth and everything in it

A **steward** is a person who is careful not to damage the environment and thinks carefully about how their day-to-day actions impacts on the world around them. Most Christians consider themselves to be stewards of the Earth.

Many non-religious people (and religious people too) are deeply concerned for the future of the planet. There are lots of examples of non-religious people who are **environmental activists**. These activists strive to take personal responsibility for the environment, as well as encouraging others to do so.

Climate change was not an issue 2,500 years ago, when the Buddha lived, so there are no specific teachings about it in Buddhism. However Buddhists believe that it is wrong to kill or harm any living thing, this includes: animals, plants and the eco-systems in which they live.

Design Technology - Textiles

Natural fibres

Natural fibres are all derived from vegetation, cellulose-based materials, as well as products that are made from animals.

Natural fibre	Properties	Use
Cotton	Cool, cheap, strong, renewable	Denim jeans, shirts, lightweight clothing
Bamboo	Cheap, renewable, soft, absorbent, comfortable	Knitwear, socks
Linen	Renewable, strong, creases easily	Lightweight clothing
Wool	Soft, hardwearing, renewable	Knitwear, carpets
Silk	Expensive, renewable, drapes (hangs) well, good insulation properties (cool in summer, warm in winter)	Wedding dresses, ball gowns

Synthetic fibres

Synthetic fibres are not plant or animal based; they are made from polymers that are derived from **petrochemicals**.

Synthetic fibre	Properties	Use
Polyester	Cheap, durable, non- renewable	Shirts, school uniform
Acrylic	Warm and soft, non- renewable	Bedding, clothing
Viscose	Cheap, lightweight, versatile, non-renewable	Clothing, underwear
Acetate	Resistant to degradation, cheap, no elasticity, non- renewable	Shiny, reflective clothing and curtains

Design Technology – Textiles (Types of Stitch)

How to do the Back Stitch

Back Stitch is made by taking the thread backward than the conventional forward motion, and thus the name.

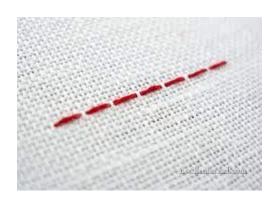
It can take curves well. There are no spaces between each stitch, giving it a continuous appearance. Like the <u>Running Stitch</u>, the Back Stitch also lays a foundation for many variations over it.



How to do the Running Stitch

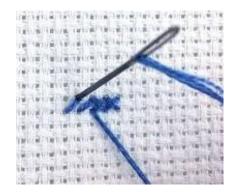
The Running Stitch is done by running the needle and thread up and down the cloth at a regular distance. Keep the stitch consistent to make your work look beautiful.

The length of the stitch on the front side can vary from that on the underside. Usually, there is more thread shown on the front than the underside in a running stitch.



How to do the Cross Stitch

Start your first cross stitch at the top of the design (top left if you are right- handed and top right if you are left-handed). At the end of every cross stitch row, release the needle (let it hang freely) so the thread can unwind – this will prevent knots forming. When creating a half stitch or completing a full stitch, stop pulling the thread through the fabric when you feel resistance. This keeps the tension loose and creates more even looking stitches.



Art, craft & Design

Develop ideas through investigations, demonstrating critical understanding of sources.

Refine work by exploring ideas, selecting and experimenting with appropriate media, materials, techniques and processes.

Record ideas, observations and insights relevant to intentions as work progresses.

Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

25% of your project mark

Theme exploration. Mindmaps / Collected images. Facts & statistics.

Interviews.

Artist research & analysis. Art movements & time periods. Trips, museums & galleries.

25% of your project mark

Experimenting with different materials.

Improvements.

Testing ideas.

Contact sheets with selections. Repeating ideas in materials. Developed ideas.

Observational drawings.

25% of your project mark

Photography.

Annotations.

Ideas.

Planning for tests or photoshoots.

Thumbnailsketches.

Final outcomes.

Final design plan explaining links to prior learning.

25% of your project mark

Meaningful connections within the work.

Art, craft & Design: Line

Proportion: the dimensions (sizes) of an image or item and the relationships between height, width and depth.

Observation: What you see

Observational drawing: A drawing of something directly in front of you

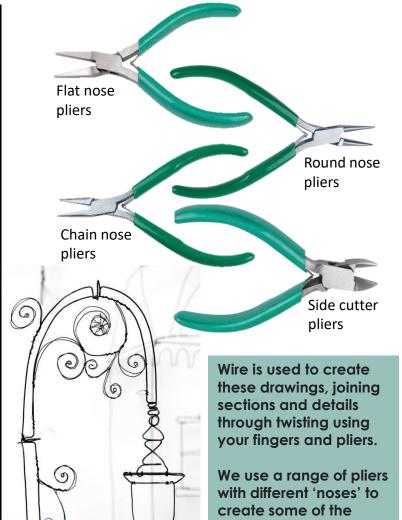
Line drawing: A drawing with no shading added to it.

Ellipse: A circle seen in perspective – such as the top of a teacup.

2D: an object that only occupies space in height and width and is therefore flat.

3D: an object that occupies space in height, Width and Depth and appears to come out of the page.

Detail: the precise designs, patterns and shapes found on the items we are drawing and creating.



more intricate details.



Helaina Sharpley uses Iron wire to create intricate and elegant three dimensional wirework wall pieces, that cross the boundaries between drawing and sculpture. Initially inspired by tea and tea drinking, she is also inspired by the decorative designs linked to the **Edwardian** and Victorian time periods.

Art, craft & Design: Pattern

Patterns are all around us, in nature as well as in art and design. We see patterns where shapes, lines or colours are repeated.

Geometric patterns are repeating arrangements of regular shapes such as squares, triangles, circles & lines.

Organic patterns are created from shapes based on nature, curved swirly lines and not always repeating

Texture is the look & feel of a surface

lain Macarthur suggests tone through varying the density of his markmaking and patterns. This means he puts patterns closer together (with less white space showing) for darker areas, and spreads it out or uses smaller marks for lighter areas (increasing the amount of white showing through).

lain Macarthur uses different patterns to create the different areas and textures within his work. He changes the direction of his patterns and sectioning to help give an idea of texture.



Tone is the darkness or lightness of an object.

inders

Lighter tones are used to indicate the light source, or where the light reflects off of, and/or shines on an object.

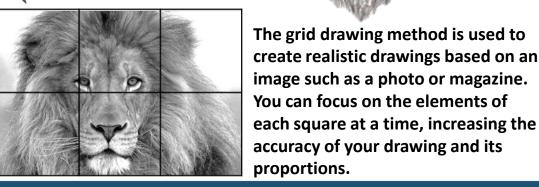
Darker tones are used to indicate the lack of light.

Highlight – Where light directly hits the object it is the lightest part.

Midtone - A medium tone, one that is neither very dark nor very light.

Shadow - Is the dark side on an object not facing the light.

Continuous line drawing – Drawing without taking your pen or pencil off the page.



PERFORMING ARTS



Stage Positions				
Upstage Right	Upstage Centre	Upstage Left		
Centre Right	Centre	Centre stage Left		
Downstage Right	Downstage Centre T T Audience	Downstage Left		

Skills and techniques Projection –making the voice travel Voice expression –showing emotion through voice Facial expressions – showing emotion through the face Body language –showing emotion through the body Still image –a still picture created physically Role on the wall – showing

a character's inner thoughts

and feelings

Text related terminology

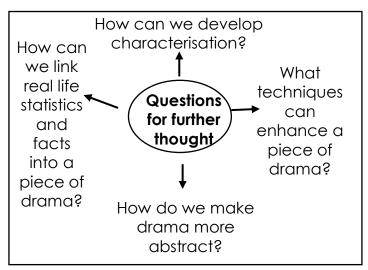
Text related terminology
Stage directions –where actors are stood on
stage
Atmosphere –the mood created

Atmosphere –the mood created Key moments –main points in a play Character relationships –how characters interact

Monologue –a speech for one person
Duologue –a speech for two people
Dialogue –a conversation between two or
Artistic Intention – What does the playwright
want the audience to think, feel and
understand?

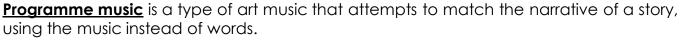
Character Motivation/Objective – what does the character want in a scene/in the play?

Mental institution – a residential hospital for people with mental conditions



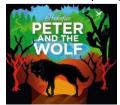


Music – Programme Music



The narrative could be presented in lots of different forms: Children's stories, written words, images, pictures, films, and cartoons.

It is important to remember that the mood of the story is reflected by the music in programme music.



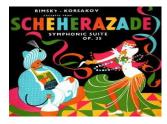
Peter and the Wolf

Peter and the Wolf is a suite of music called a 'symphonic fairytale'. It was written by Russian composer **Prokofiev**. It tells the story of various characters that we meet during a walk in a meadow.



The Firebird

The Firebird is a ballet and orchestral concert piece that is performed often. It was written by Russian composer **Igor Stravinsky**. This music describes the magical powers of the firebird who can bestow blessings and curses. This is inspired by a famous Russian fairytale.



<u>Scheherazade</u>

This is a symphonic suite, played by an orchestra. It was written by **Rimsky Korsakov**, another Russian composer. There are several individual movements that make the full suite of music.

The character Scheherazade is a young woman who unfortunately marries a murderous Sultan. In order to stay alive, she keeps the sultan distracted by magical stories.



This music is inspired by the famous folk story collection called 1001 nights. They include the story of 'Sinbad the Sailor', 'Ali Barber and the Forty Thieves' and even inspired Disney to create Aladdin, from a story called 'Aladdin's Lamp'.



Elements of Music:

- Tempo
- Texture
- Pitch
- Duration
- Dynamics
- Timbre
- Silence

Notation:

- Semibreve
- Minim
- Crotchet
- Quaver
- Semiquaver
- · Major or Minor
- Programme Music
- Narrative
- Mood
- Nationalism
- Composer



Music – Notation

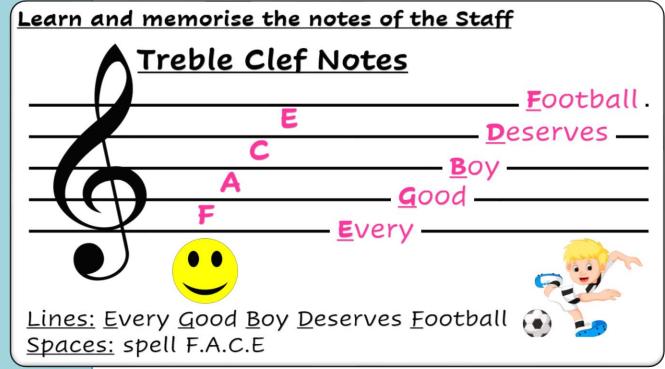








- A quaver lasts for half a beat
 - A crotchet lasts for 1 beat
- A minim lasts for **2 beats**
- A semibreve lasts for 4 beats



PE-Football

Key Vocabulary			
Mark	Mark your opponent and win the ball		
Intercept	Winning the ball by stopping the ball reaching the player.		
Shoot	Push the ball up towards the ring to the net		
Dodge	Movement to get away from your defender		
Tackle	To win the ball off the opposition		
Head	Use the head to clear or head towards goal		
1 -2	Pass the ball to a player and get the ball back.		
Skills			
Passing	Using the inside of your foot to move the ball towards one of your teams mates		
Dribbling	Using the inside and outside of your foot to keep close control of the ball when moving around the pitch.		
Defending	Marking an opponent to stop them getting space to pass or shoot.		
Tackling	Intercepting the ball that is travelling from one opponent to the other or to dispose an opponent from the ball		
Striking	Striking the ball into the net from an attacking play		
Heading	Jumping up to win the ball in the air using your head to control the flight of the ball		



Positions

- 1-Goalkeeper
- 2- Right Fullback
- **3** Left Fullback
- 4- Center Back
- **5** Center Back (or Sweeper, if used)
- 6- Defending/Holding Midfielder
- 7- Right Midfielder/Winger
- **8** Central/Box-to-Box Midfielder
- **9** Striker
- **10** Attacking Midfielder/Playmaker
- 11- Left Midfielder/Wingers

How to Score

Strike the ball into the bottom of the net without the goal keeping saving the shot.

Rules	
Rule 1	Offside is If any part of the head, body or feet is nearer to the opponents' goal line than both the ball and the defender (excluding the goal-keeper)
Rule 2	A throw in is won when the ball comes off the opposition team.
Rule 3	A penalty is won when a player is fouled in the 18-yard box.
Rule 4	When a goal is scored the ball goes back to the centre circle to be restarted. The team that has just conceded the gaol starts with it.
Rule 5	When starting with the ball in the centre circle, the ball must be played backwards.

Fitness Components Required

Speed Co-ordination Stamina Power Flexibility

PE-Table Tennis

Key Vocab	Key Vocabulary			
Ready position	The position a person should stand in when preparing to hit the ball			
Let	When the point is replayed			
Receive	The person who receives the ball from the serve			
Bat	The name given to the wooden bat that hits the ball			
Serve	The way to start the game			
Point	The name given when the player wins the rally			
Net	The dividing net that separates the court			
Rally	The ball being hit backwards and forwards between two players			
Spin	Placing spin on the ball to make it harder to hit the ball			
Grip	Holding the bat in the correct position			

Ready Position:

The ready position is a key starting point when fielding. It provides you with the best opportunity to catch and/or stop the ball and allows you to move into position quickly.



	Claille			
	Skills			
	Back hand drive		A shot where the player drives the ball	
	Forehand drive		A shot where the player drives the ball	
	Forehand push		A shot where the player pushes the ball	
	Backhand push		A shot where the player pushes the ball	
$\ $	Serve		The way a player starts the rally	
	Rules			
$\frac{1}{1}$	Rule 1	Games are played to 11 points		
1	Rule 2 Alter		rnative serves every two points	
	Rule 3	Toss the ball up when serving		
	Rule 4	The serve can land anywhere in singles		
	Rule 5 In doubles the serve must go right side table to the other right side of table		oubles the serve must go right side of the e to the other right side of table	
_	Rules 6			
	Rules 7	Alte	rative hitting when playing doubles	
	Rules 8		server must show the ball to the osition	



Backhand shot



Forehand shot



Serve

Fitness Components Required

Speed Co-ordination Stamina Power Flexibility

PE-Netball



		Ш
Skills		
Throwing	Releasing the ball with force using different passes.	
Catching	To catch the ball and to bring the ball into your chest.	
Jumping	Taking off from the floor in an upwards direction	
Footwork	when a player is stepping, landing or pivoting while in possession of the ball	L
Shooting	Shooting the ball into the net from an attacking play	K
Defending	To gain possession of the ball from the attacking team through an interception	
Positions		
GS -Goal	These players work together to score goals for their team	
shooter GA – Goal attack		
WA – Wing attack	These players bring the ball through the court and receive or intercept centre passes.	

GS GK	Netball Court Positions		
	GK U		
GD GA WA WD	GD WD		
C	لمالمالما		
6			
	C WA		
WA GD GA	GS GS		
WD	GK - Goal Keeper GD - Goal Defence		
	GA C- Centre		
GK GS	WA - Wing Attack GS - Goal Shooter GA - Goal Attack		
	- CA GOOD ALLOCK		

Defend	Mark your opponent and wirt the ball	
Intercept	Winning the ball by stopping the ball reaching the player.	
Shoot	Push the ball up towards the ring to the net	
Dodge	Movement to get away from your defender	
Pivot	Turning by keeping one foot on the floor	

Rules

Rule 1	You cannot run with the ball
Rule 2	Land 1 foot 2 foot keeping landing foot 1 on the floor
Rule 3	Release the ball within 3 seconds of having possession.
Rule 4	Mark the ball with a distance of 1 meter and put your arms up.

You cannot make contact or push your opponent. Rule 5

Fitness Components Required

C - Centre

WD - wing **Defence** GD - Goal

defence

GK - Goal keeper

> **Agility Speed**

intercepting the ball.

Stamina

These players try and stop the opposition scoring by blocking or

Flexibility Power



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