

Knowledge Organiser Booklet

Year 7 Autumn Term

	Ways to use your knowledge organiser						
	Look, Cover, Write, Check	Self Quizzing	Mind Maps	Paired Retrieval	Definitions to Key Words		
Step 1	Look at and study a specific area of your knowledge organizer.	Use your knowledge organizer to create a mini quiz. Write down questions using your knowledge organizer.	Create a mind map with information from your knowledge organiser.	Like self quizzing, use your knowledge organizer to create a quiz.	Write down the key words and definitions.		
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Step 2	Cover or flip the knowledge organizer over and write down everything you remember.	Cover or flip the knowledge organizer over and answer the questions and remember to use full sentences and key words/vocabulary.	Add pictures to represent different facts, knowledge. Try to categorise different areas in different colours.	Ask a family member to ask you the questions and tell you which ones you get right and which ones you get wrong.	Try not to use your knowledge organiser to help you.		
Step 3	Check what you have written down. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.	Check your answers. Correct any mistakes in a different coloured pen and add anything you missed. Repeat.	Try to make connections that link information together.	Following the quiz, summarise which areas you got wrong and need to revise further.	Use a different coloured pen to check you work and correct any mistakes you may have made.		
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Lionheart Literary Canon: Curating a Lifelong Love of Literature

Recommended books to have read by the end of Year 7

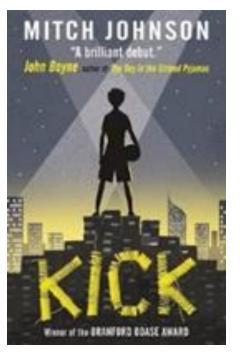




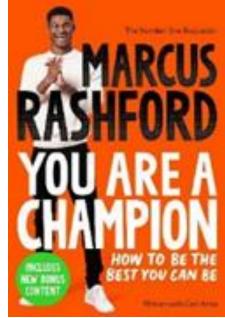
Pax (2017) Sara Pennypacker



Oh My Gods (2019) Alexandra Sheppard



Kick (2017) Mitch Johnson



You Are A Champion (2021) Marcus Rashford

All books can be purchased online, or loaned from our library

English

Unit 1: The Ruby in the Smoke

RUBY IN THE S



Features of the Victorian Novel

- Realistic
- Purpose to entertain
- Often has a hero or a heroine at the heart of it
- Presents all aspects of society ٠
- Several genres; romance, gothic and social ٠ commentary
- Victoriana refers to mock Victorian culture ٠ such as The Ruby in the Smoke.

What is the writer presenting? What is your area of focus?

What? **How** are these ideas demonstrated or developed? *Introduce and embed a*

- quotation to develop your argument. Analyse the connotations of words and how How? we are encouraged to react as a reader.
- **Why** is this effective? **Why** might it create a reaction? **Why** might the writer Why? have made this decision?

How to structure a well organised, analytical paragraph

1. Start with your **topic sentence** which should make explicit reference to the task (using key words from the title) and explain what the focus of the paragraph will be. (The what)

2. Refer to the writer's methods to show how this particular idea is presented in the text. You must remain focused on the idea you flagged up in your topic sentence.

3. Develop by considering why this is significant in terms of either reader response, the wider plot of the text, the genre or the literary context.

4. Make explicit reference back to the title to ensure you have remained focused on the question.

P	Evaluative	vocabulary	Emotional vocabulary			
AN MOKE	Subtle	Skilful	Outrage	Empathy		
	Challenging	Striking	Sympathy	Approval		
2	Crucial	Significant	Pity	satisfaction		
TERY	Pivotal	Provocative	Remorse	Compassion		

The Detective tradition as a genre

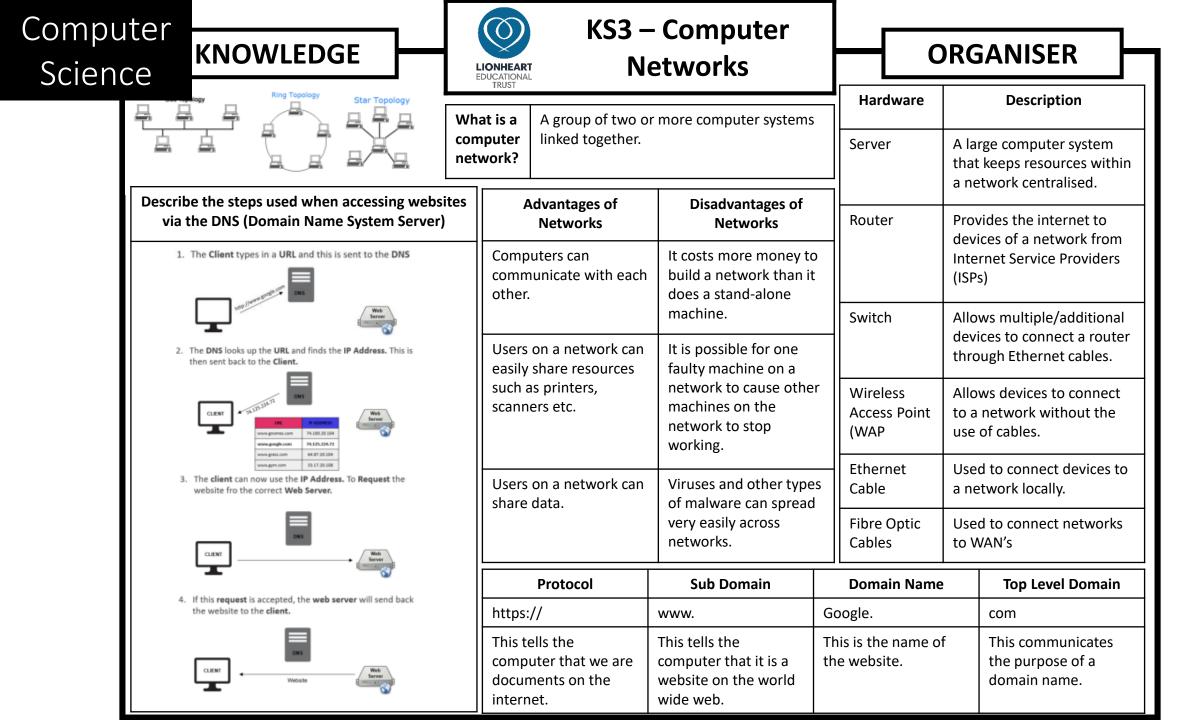
- Many based on true crime stories
- Often a hero like Sherlock Holmes
- Presents a range of characters involved in these mysteries
- Offers elements of social commentary.
- First serialised in magazines, so lends themselves to short stories or sections with cliff-hangers.

Year 7 The Ruby in the Smoke Vocabulary Lists

Covetous	Villain	Henchman	Timid
Outsider	Hypocritical	Malevolent	Addiction
Reclusive	Mutiny	Naive	Etiquette
Inherit	Empire	Cunning	Entrepreneur
Sinister	Reckless	Belligerent	Resourceful
Predatory	Vigilante	Clue	Orphaned
Slum	Protagonist	Charismatic	Courageousness
Bohemian	Victoriana	Poverty	Perilous
Victim	Nightmarish	Cutthroat	Neglected

comput Science		KNOWLED	GE	LIONHEART EDUCATIONAL TRUST			omputin mentals		ORG	GANI	SER	
			vices connected to and share resourc	۲ ^۲								
		What cou	ıld a network loo	k like?				P	R			
	Internet CD-ROM Server		File Server E-mail Server Printers		softwaresoUsed whenA greewanting to write awhenlot of text inside oftext wa document. E.g.E.g.		Publishing software	softwaresoftwareA great choiceThe bestwhen combiningchoice when		•		
			Network Cabling				when combining text with images. E.g. leaflets,			The ideal choice when working with data and formulas in a logical way		
		Top tip	s when using sea	rch engines			Computer Security					
	AND	Can be used to specif	fy words that mus	st appear in your re	sults.	An example of		of personal information		date of birth		
	NOT	Can be used to searc	h for pages which	must not include a	hat contain several words.				Malware			
	OR	Can be used when yo	ou want to find pa	ges that contain se								
		Used to search for ph	nrases.			them abuse online.			someone up by sending ine.		Trolling	
		What are computers	good at	What are computers bad at		What can help avoid viruses?		Anti-virus/firewall				
	Storing large quantities of information Doing as they are told		Making assumptions		When someone pretends to be a trusted P		Phishing					
			Empathy		company to get your ir (normally through ema			ur information				
	Completing boring and repetitive task		Fixing themselves	5			ernet to send intimid	ating or	C\	/berbullying		
	Comple	eting complex equation	ns efficiently			Using the inter		-		Cyberballying		

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Maths – Year 7

Block 1 – The Grammar of Algebra



Sequence	An ordered list that follows a particular rule.				
Arithmetic	A sequence which increases or decreases by the same amount each time.				
Increasing	Each number is larger than the previous one.				
Decreasing	Each number is smaller than the previous one.				
Common difference	The number that you add or subtract to get to the next term.				
Finite	A sequence that has a certain number of terms and then ends.				
Infinite	A sequence which continues forever, shown by using				
Term	A mathematical form expressed symbolically, separated by an operator (usually + or –) or in brackets.				
Coefficient	The multiplier in a term.				
Expression	An algebraic form consisting of a number of terms. There is no equal sign.				
Like Terms	Terms that have the same unit. Algebraic like terms have the same letter(s) and power(s).				
Identity Symbol (≡)	Used algebraically to indicate where something is identical for all values of the variable(s).				
Variable	A quantity that can take on a range of values, often denoted by a letter a, b, c,,x, y, zetc.				
Unknown (or specific unknown)	Similar to a variable, but used more widely to mean a specific value to be determined.				
Integer	Whole numbers and their opposites. (positive, negative and zero; ⁻ 3, ⁻ 2, ⁻ 1, 0, 1, 2, 3,)				
Function	A rule that transforms one number or expression to another. E.g. A "plus 3" function will turn 7 into 10 E.g. A "plus 3" function will turn x into x + 3				
Function Machine	A way of writing a rule(s) using a flow diagram. (Sometimes called a "number machine" but "function machine" is a more accurate noun).				
Input What is taken in and operated on by a function. One input results in exactly one output.					
Output	What is produced after a function has been applied to an input. One input results in exactly one output.				

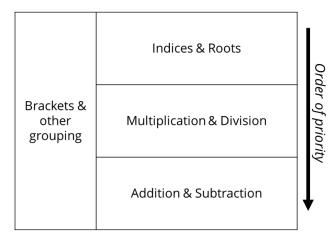
Maths

Maths – Year 7

Block 1 – The Grammar of Algebra



Inverse	The operation that reverses the effect of another operation. Addition and subtraction are inverse operations. Multiplication and division are inverse operations.
Function / One-to-one mapping	A rule that transforms one number or expression to another. Can be described as a 'one-to-one mapping' as well as a 'function'.
Domain	Set of allowed inputs into a function.
Range	Set of possible outcomes of a function.
One-to-one	A single inputted value has one and only one possible output.
One-to-many	A single inputted value has more than one possible output.
Substitute	To replace. In algebra, substitution is to replace a letter with a number.
Distributive property of multiplication	Multiplying a term by a group of terms added together is the same as doing each multiplication separately.In general: $\mathbf{a}(\mathbf{b} + \mathbf{c}) \equiv \mathbf{a}\mathbf{b} + \mathbf{a}\mathbf{c}$
Factorise	Writing an expression as a product of its factors.
Fully factorise	Writing an expression as a product of its highest common factor and another expression.



Priority of Operations

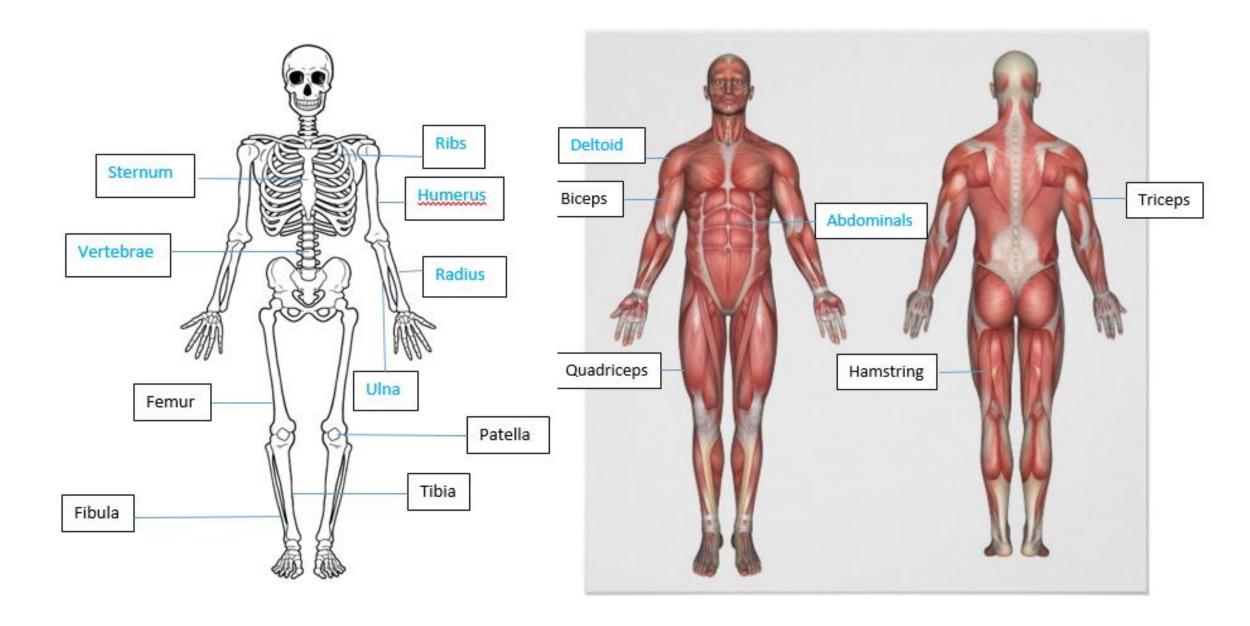
Where operations have <u>equal priority</u>, we work from left to right.

Brackets (and other groups) change the priority of the operations.

Unit 1 Physical Education Knowledge Organiser: Staying safe in Physical Activity

Key learning content	Description / Explanation/ Example
Stages of a warm up	Examples of warm up
• Stage 1 – pulse raiser (5 mins)	 Stage 1 – (Low intensity exercise) A 5 minute jog around a netball court.
• Stage 2 – mobility exercises	• Stage 2 – (To a move a joint through its full range of motion) Arm circles, ankle circles, hip circles.
• Stage 3 – stretching (10s+)	• Stage 3 – (Static or dynamic stretches) quadriceps stretch.
• Stage 4 – dynamic movement	• Stage 4 – (high intensity exercise) Shuttle runs
Stage 5 – skills practice	 Stage 5 – (Practice the skills you will be using) Chest/ shoulder passes (netball)
Benefits of a warm up	Benefits explained
Increase temperature and HR	Allow more oxygen to reach muscles
Decreased chance of injury	Better for overall health. Can maintain involvement in physical activity .
Increased oxygen transport	• More oxygen gets to muscles, so can create more energy.
Increased flexibility	 Increased flexibility can enhance performance (Reach higher to catch a ball)
Increased speed / strength of muscle contractions	Faster/ stronger movements - perform skills more effectively.
Mental preparation	• Mental preparation – feel more alert/ focussed/ confident/ concentrating/ motivated/ relaxed etc.
Stages of a cool down	Examples of cool down
Stage 1 – Low intensity exercise	 Stage 1 – Steady jog on netball court, can move onto a walk
Stage 2 – Stretching	 Stage 2 – (Static stretches) Quadriceps stretch, hamstring stretch.
Benefits of cool down	Benefits explained
Gradually lower heart rate	 Gradually lower heart rate from 150bpm when working to 70bpm when resting.
Gradually lower breathing rate and temperature.	To maintain blood flow/ oxygen transport/ carbon dioxide removal
Speeds up removal of waste products.	Carbon dioxide and lactic acid removed faster. Reduces aching, recovery is faster.
Speeds up recovery	
Preparing for physical activity	Preparation explained
Wear appropriate PE kit	Sports trainers, shorts, t-shirt to avoid injury yourself or others.
Long hair tied back	So you can see when playing
Jewellery removed	Earrings taken out, bracelets off to avoid injuring yourself or others.
No chewing gum or food	To avoid chocking when active.
Water for hot weather	To stay hydrated /avoid headaches/ feeling weak
Risks and hazards to check for	Hazards explained
Area free from rubbish	• Check there is no debris such as broken glass on football pitch, to avoid someone injuring themselves.
Equipment tidied away	Check there are no equipment such as bibs left out on a basketball court from a previous activity, to
Equipment undamaged	avoid someone slipping/ tripping over when warming up.
Surface dry/ undamaged	• Check the trampoline is up properly, to avoid injury to a player.
	• Check there is no water spilled on the badminton court, to avoid a player slipping and hurting an arm.

Key word	Description
Aerobic	Use of oxygen for the duration of the exercise. Usually at moderate intensity at a continuous rate e.g. long distance running. Can be performed
	for a long period of time.
Anaerobic	Exercise which creates energy without the use of oxygen. Usually high or very high intensity for a short period of time. E.g. sprinting up a hill.
Flexibility	Range of movement available around a joint.
Mobility	The ability to move freely.
Dynamic movement	Movements performed at high speed/ intensity.
Oxygen	The gas we breathe in, transport and use to create energy.
Oxygen transport	Oxygen is transported through blood vessels within the red blood cells.
Gaseous exchange	The movement of oxygen and carbon dioxide within the lungs, muscles and vital organs.
Contraction	A muscle contracts and (usually) gets shorter to apply a force and create movement.
Heart rate	Number of heart beats per minute.
DOMS	Delayed Onset Muscle Soreness. Usually occurs 1 or 2 days after high intensity exercise.
Lactic acid	A waste product produced in the muscle tissues during anaerobic exercise.
Waste products	Bi-products of aerobic exercise are carbon dioxide and water. Lactic acid is also a bi-produce of anaerobic exercise.
Carbon dioxide	We produce carbon dioxide as a waste product. We transport it back to the lungs and breathe it out.
Recovery process	Returning the body to resting levels.
Intensity	How hard you work.
Team work	Working together to achieve a common goal. Requires good communication skills.
Reciprocity	Working positively with others as a group.
Demonstration	Showing someone how something should be done.
Communication	Transferring information by speaking, writing, demonstrating and using body language.
Risk	The chance or probability that someone will be harmed.
Hazard	A source of potential danger.
Injury	Damage or harm to the body.
Sprain	Damage to a ligament.
Mental Preparation	Getting your mind ready for competition through visualising the skills and imagining yourself being successful.



Key Word	Description/Location/Role
Muscle pair	Muscles that work together to produce a movement. Also called antagonistic pairs.
Hamstrings	A group of muscles located at the back of your thigh. Muscle pair with quadriceps
Quadriceps	A group of muscles located at the front of the thigh. Muscle pair with hamstrings
Biceps	A muscle located at the front of your upper arm.
Triceps	A muscle located at the back of your upper arm.
Abdominals	A group of muscles at the front of your body between the ribs and pelvis.
Deltoids	A group of muscles located at the shoulder.
Femur	A bone in your thigh
Tibia	A bone in your lower leg on the inside
Fibula	A bone in your lower leg on the outside
Patella	A small bone at the front of your knee
Humerus	A bone in your upper arm
Ulna	One of 2 bones in your forearm. The ulna runs down to your little finger
Radius	One of 2 bones in your forearm. The radius runs down to your thumb.
Flexion	Bending a joint. This occurs when the angle of a joint decreases. For example, the elbow flexes when performing a biceps curl.
Extension	Straightening a joint. This occurs when the angle of a joint increases, for example, at the elbow when putting a shot.
Contraction	When a muscle produces a force which pulls on a bone.
Agonist	The name given to a muscle which is contracting and causing a movement/ producing a force.
Antagonist	The name given to a muscle which is relaxing while it's paired muscle contracts to perform an action.
Hinge Joint	These include the elbow and knee. They allow flexion and extension to occur.
Ball and Socket Joint	These include the shoulder and hip.
Concentric	A type of muscle contraction where the muscle shortens while it is contracting. E.g. biceps when lifting a weight.

Drama

Homework 1:

Learn the information on this knowledge organiser ready for a quiz.

Drama Year 7 – Topic 1

Darkwood Manor



Physical skills

These skills are linked to the ways an actor <u>uses their body</u> <u>language</u> to communicate their <u>character</u>. They are all <u>non</u> <u>verbal communication skills</u>, meaning you do not talk or make any sound!

Posture

The way you hold your posture on stage shows your character's age, personality and mood.



Gestures

A gesture is shown using your arms and hands. They send messages to the audience about your character's mood and situation.

Facial expressions Shows your thoughts, feelings and emotions of the character you are playing by changing the shape and expression on your face.



Vocal skills

These skills are linked to the ways an actor <u>uses their voice</u> to communicate their <u>character.</u> There are <u>3 key elements</u> you are going to explore this topic.

Volume ~ How loud or quite you are

Tone ~ The mood and emotion you show

Pace ~ How fast or slow you speak



Drama

Drama conventions

Monologue is an <u>extended speech by one person</u>. It is a speech given by a single character in a story.



Thought-track allows the audience to learn what a character is thinking.



Still image A still image is a moment when all of the action on stage freezes- like a photograph.

The 3 Rules of Still Image

1.) Be silent 2.) Be still



3.) Use your **physical skills** creatively

Character is a person created in a drama

Actor is the person who performs as a character

Audience are the people who are watching the performance

Performance to present your play to an audience

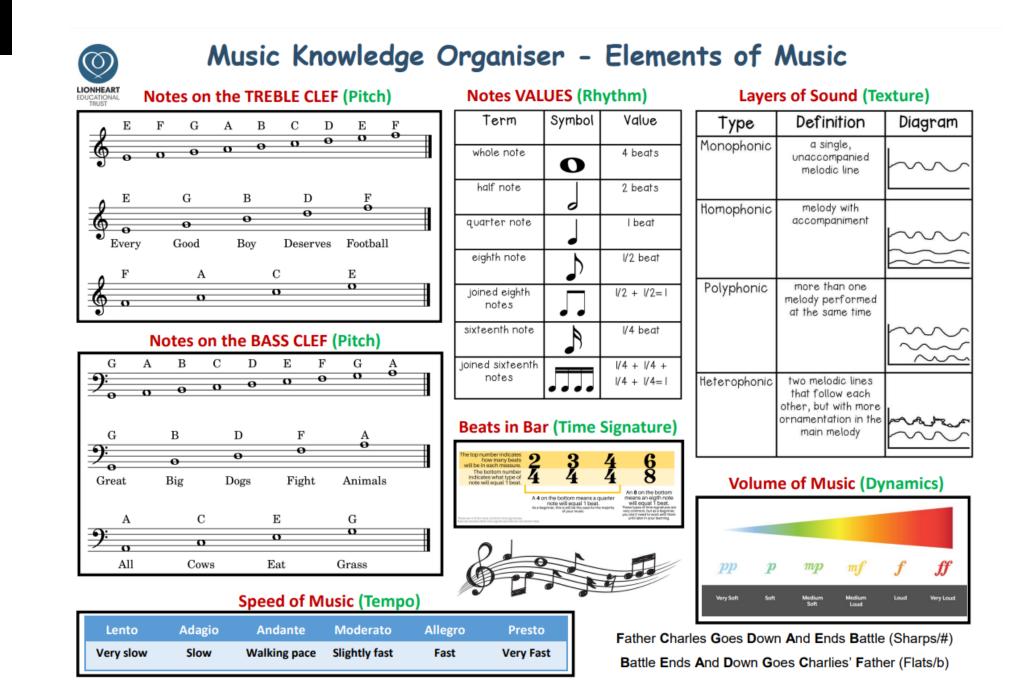
Homework 2: Vocabulary test

Learn the 10 spellings below:

1.) Physical

- 2.) Vocal
- 3.) Posture
- 4.) Gesture
- 5.) Body language
- 6.) Facial expression
- 7.) Audience
- 8.) Monologue
- 9.) Performance
- 10.) Character

Music



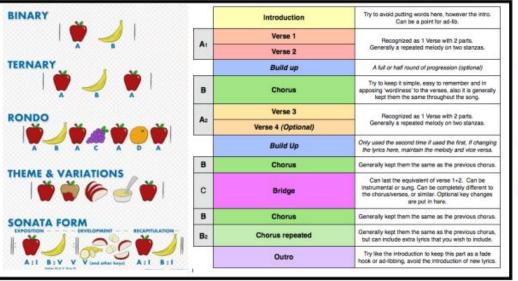
Music

LIONHEART EDUCATIONAL RUST

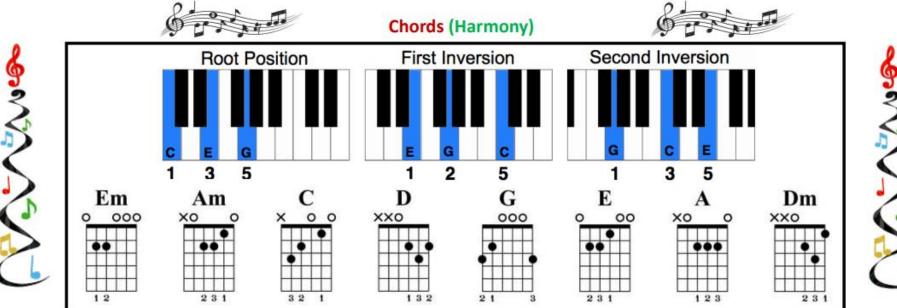
Music Knowledge Organiser - Elements of Music

9

How Music is Organised (Structure)



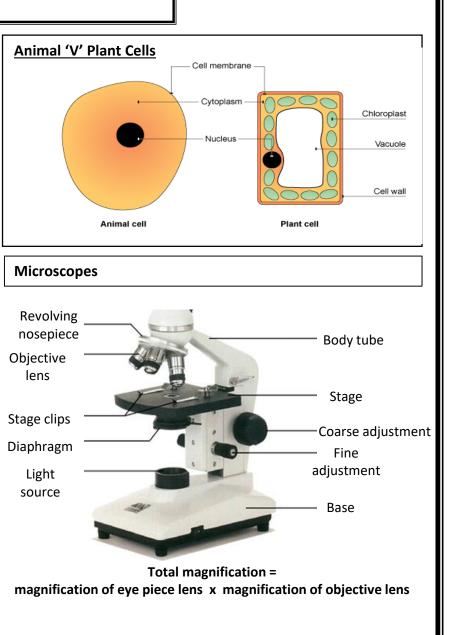






KNOWLEDGE ORGANISER BIOLOGY: CELLS

Key word	Definition	
amoeba	A unicellular organism.	
cell wall	The plant cell component that surrounds the cell, providing support.	
cells	The smallest functional units in an organism – the building blocks of life.	
Cell	The cell component that surrounds the cell and controls movement of	
membrane	substances in and out.	
chloroplasts	The plant cell component where photosynthesis takes place.	
concentration	A measure of the number of particles of a substance in a given volume.	
Cytoplasm	Jelly like substance in cells where most chemical processes happen	
diffusion	The movement of liquid or gas particles from a place of high concentration to a place of low concentration.	
euglena	Unicellular organism that performs photosynthesis.	
flagellum	A tail-like structure that allows euglenas to move.	
leaf cell	The plant cells that contain chloroplasts, where photosynthesis takes place.	
microscope	An optical instrument used to magnify objects, so small details can be seen clearly.	
nerve cell	An animal cell that transmits electrical impulses around the body.	
nucleus	The cell component that controls the cell and contains genetic material.	
observation	Carefully looking at an object or process.	
organisms	Living things.	
red blood cell	An animal cell that transports oxygen around the body.	
root hair cell	A plant cell that takes in water and minerals from the soil.	
specialised	A cell whose shape and structure enable it to perform a particular	
cell	function.	
sperm cell	A cell containing male genetic material.	
unicellular	Consisting of just one cell.	
vacuole The plant cell component that contains cell sap and helps to kee cell firm.		





KNOWLEDGE ORGANISER BIOLOGY: CELLS

Type of plant cell	Function	Special features	Movement of substances
Root hair cell	To absorb water and minerals	Large surface area	Substances move from an area where they are in high concentration to an area where they are in low concentration. This process is called
Leaf cell	To absorb sunlight for photosynthesis	Large surface area Lots of chloroplasts	diffusion. Oxygen diffuses into cells from an area of high concentration outside the cell to a low concentration of oxygen inside the cell.
Type of animal cell	Function	Special features	Carbon dioxide moves out of the cell.
Red blood cells	To carry oxygen	Large surface area, for oxygen to pass through. Contains haemoglobin, which joins with oxygen	Water moves into a plant from a high concentration of water in the soil to a low concentration of water in the root hair cells.
Nerve cells	To carry nerve impulses to different parts of the body	Long Connections at each end. Can carry electrical signals	Unicellular Organisms Amoebas and Euglenas are examples of
Female reproductive cell (egg cell)	To join with male cell, and then to provide food for the new cell that's been formed	Large Contains lots of cytoplasm	unicellular organisms. This means that they are only made up of one cell.
Male reproductive cell (sperm cell)	To reach female cell, and join with it	Long tail for swimming. Head for getting into the female cell	Both organisms reproduce by binary fission.
Ciliated Cells	The hairs sweep hair, mucus, trapped dust and bacteria up to the back of the throat where it can be swallowed	Hair like structures Present in many structures e.g. ear, nose, trachea	Amoebas have to find food to survive but Euglenas can carry out photosynthesis to produce their own food.



KNOWLEDGE ORGANISER

BIOLOGY : Movement

1. Organisation

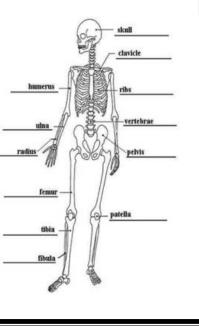
Organism – group of organ systems working together eg animal Organ system – group of organs working together eg circulatory system Organ – group of tissues working together eg heart <u>Tissue</u> – group of similar cells working together eg muscle tissue <u>Cell</u> – building blocks of life eg muscle cells

2. Skeleton

The skeleton is made up of bones. The skeleton has four important functions –

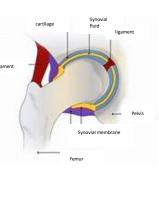
- 1. to protect organs,
- 2. to help the body move,
- 3. to support the body
- 4. to make red and white blood cells.





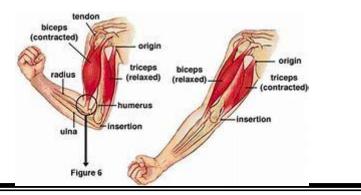
3. Movement of joints

Joints occurs where 2 or more bones join together. Different types of joint allow movement in different directions. For example, ball and socket joints in the hip and shoulder allow movement in all directions. Cartilage covers the end of the bones in joints to stop the bones from rubbing together. Ligaments attach bone to bone. You can measure muscle strength using a Newton scale. The harder you push on the scale the greater the force exerted on the newton scale.



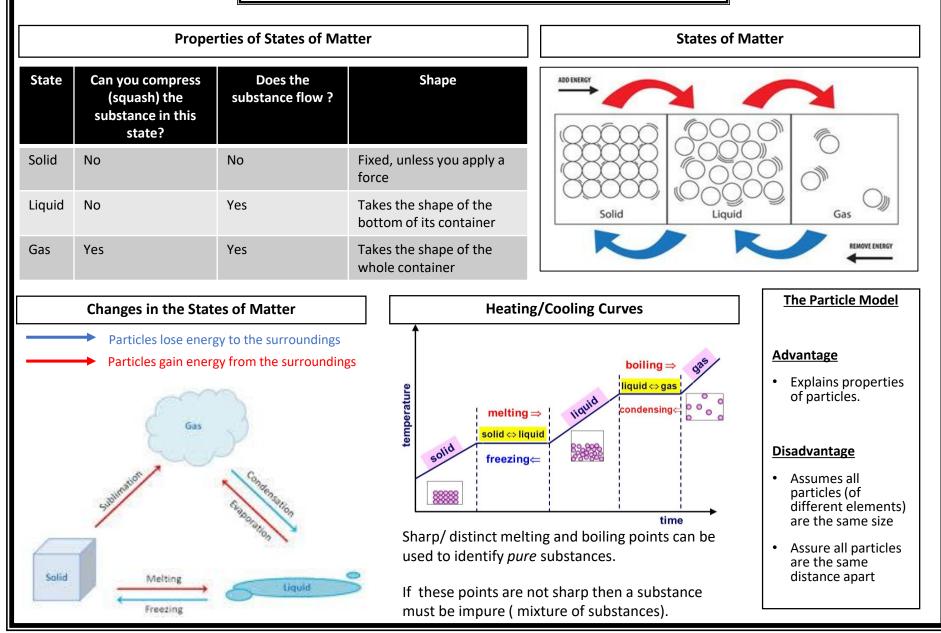
4. Movement of muscles

Muscles are attached to bones by tendons. When a muscle contracts it shortens and pulls on the bone. If the bone is part of a joint this will cause the bone to move. Pairs of muscles work together to control movement at a joint. They are called antagonistic muscles, this means when one muscle contracts (eg biceps) the other muscle in the pair relaxes (eg the triceps).



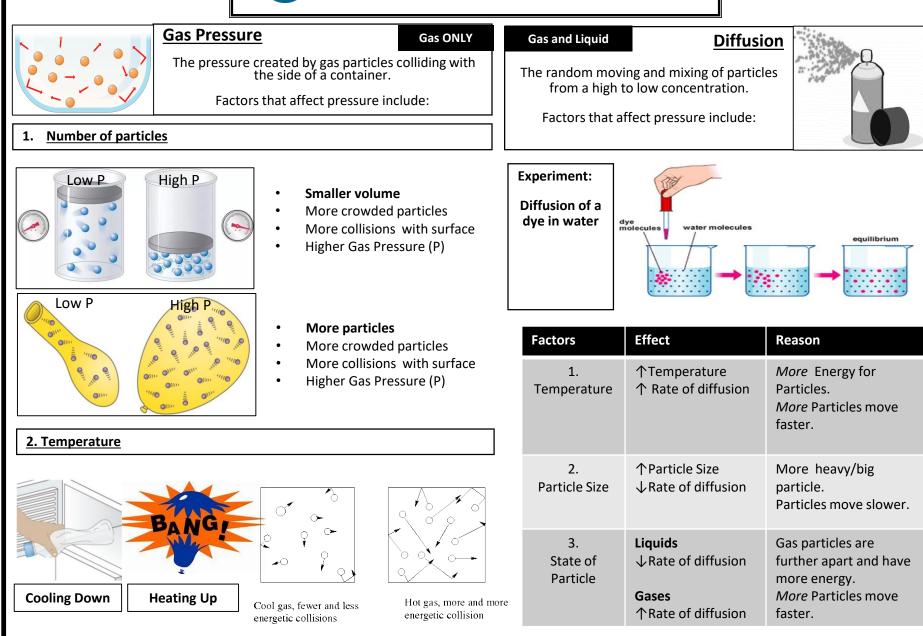


KNOWLEDGE ORGANISER CHEMISTRY: Matter





KNOWLEDGE ORGANISER CHEMISTRY: Matter





KNOWLEDGE ORGANISER

PHYSICS: FORCES Speed and gravity

Keyword	Definition	Force arrows			
Force	Forces can make things speed up, slow down, change direction or change shape.	a falling	b sitting on a table force exerted by the table		
Contact force	These forces only act when two things are touching.	on the ba			
Non-contact force	These forces can act when things are not touching				
Newtons	The units for measuring forces (N)	force exerted by the Earth on the			
Gravity	The force that earth uses to pull things towards it	ball (due to grav			
Air resistance	The force that slows something down because air particles hit it.	▲ These for	ce arrows show the forces acting on a tennis ball.		
Friction	The forces that slows things down when they move on a surface e.g. a car on a road.	Contact forces	Are forces that act when you are touching something. friction, and air resistance are contact		
Upthrust	The force on an object in liquid or gas that pushes them up		forces. Support forces like upthrust are also contact forces.		
Interaction pairs	When two objects interact there is a force on each one that is the same size but in opposing directions.	Non-contact	The force of gravity acts on a tennis ball when		
Speed	A measure of how far something travels in a particular time, measured in meters per second (m/s)	forces travels through the air. The down even though it isn't to non-contact force. The force			
Average speed	The overall distance travelled by overall time for a journey]	another example.		
Acceleration	How quickly speed increases or decreases	Interaction pairs	When two objects interact there is a force on each		
Mass	The amount of matter something is made of		one that is the same size but in opposing directions.		
Weight	The force that acts on a mass because of gravity				
Equilibrium	Equilibrium When all of the forces on something are balanced and cancel out.				
Introduction to forces					
A force can be a push or a pull. Forces explain why objects move in the way that they do or why they don't move at all. Forces can change the direction that objects are moving in and change their shape.			← friction on the book → friction on the table		



KNOWLEDGE ORGANISER

PHYSICS: FORCES Speed and gravity

Balanced and unbalanced

When the forces acting on an object are the same size but act in opposite directions we say that the resultant force is zero, the forces are **balanced** and the object is in **equilibrium**.

Balanced forces	Unbalanced forces
An object can either: • Stop • Move at a steady (constant) speed	An object can either: • Speed up • Slow down • Change direction • Change shape
Resultant forces 20N 40N Resultant = 20N →	 Single force that can replace all the forces acting on an object and have the same effect
Gravity	

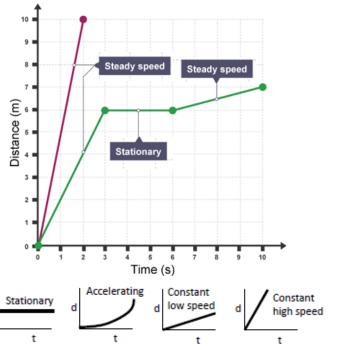
Gravity (or gravitational force) is a **non-contact force** which acts between two masses. It depends on the mass of each object and how far they are apart. On Earth the Gravitational field strength on Earth is 10 N/kg. Gravitational filed strength is different on other planets.

Gravity keeps things in orbit because the Earth exerts a force on the Moon. The force of gravity acts on the Moon keeping it in orbit around the Earth.

Difference between weight and mass Slowly. Weight Is the effect of gravity on an object. Measured in newtons (N). Its value differs on different planets. Equations to learn Mass Amount of matter in an object measured in Kg. Same value on different planets. Distance = speed x time speed - meters per second (m/s) Time - seconds (s) Weight (N) = mass (kg) × gravitational field strength (N/kg)	force of gra	vity acts on the Moon keeping it in orbit around the Earth.	slowly.		
Weight Is the effect of gravity on an object. Measured in newtons (N). Its value differs on different planets. Distance = speed x time speed x time speed - metres (m) Speed - metres per second (m/s) Time - seconds (s) Mass Amount of matter in an object measured in Kg. Same value on Weight (N) = mass (kg) × gravitational field strength (N/kg)	Difference	between weight and mass			
Mass Amount of matter in an object measured in Kg. Same value on Weight $(\mathbf{N}) = \max(\mathbf{kg}) \times \text{gravitational field strength}(\mathbf{N}/\mathbf{kg})$	Weight		Distance = speed x time	Speed – meters per second (m/s)	
	Mass		Weight (N) = mass (kg) \times		

Distance-time graphs

A distance-time graph is a useful way to represent the motion of an object. It shows how the distance moved from a starting point changes over time.



The slope of a distance-time graph tells you the speed. If the line is steep, the object is moving fast, if its not very steep then the object is moving more slowly.



	Knowledge Onceniser Veen 7		Hinduism, Buddhism and Sikhism		
	Knowledge Organiser Year 7	Ahimsa	Hindu and Buddhist practice of on-injury to living things; the rule of non-violence		
	Topic 1	Diety	a god or goddess (in a polytheistic religion).		
'How did we get here?'		Hinduism	Hinduism is an Indian religion, which has many gods and teaches that people have another lite on earth atter they die.		
	now all we get here:	Trimurti	in Hinduism, triad of the three gods Brahma, Vishnu, and Shiva.		
	Key words and Secular language	Brahman	the ultimate reality underlying all phenomena in the Hindu scriptures "Brahman is formless but is the birthplace of all forms in visible reality"		
Secular	not connected with religious or spiritual matters	Bhrama	a Hindu god: in later Hindu tradition, the Creator who, with Vishnu, the Preserver, and Shiva,		
Philosophy	Philosophy comes from the Greek word meaning 'the love of knowledge'. It is the study of the basic ideas about knowledge, right and wrong, reasoning, and the value of things.	Vishnu	the Destroyer, constitutes the triad known as the Trimurti The second god in the Hindu triumvirate (or I rimurti) Vishnu is the preserver and protector ot the universe. His role is to return to the earth in troubled times and restore the balance of good and evil		
Humanism,	Humanists believe that human experience and rational thinking provide the only source of both knowledge and a	Shiva	One of the principal Hindu deities, worshiped as the destroyer and restorer of worlds and in numerous other forms		
Monotheism	moral code to live by. They reject the idea of knowledge 'revealed' to human beings by gods, or in special books the doctrine or beliet that there is only one God	Buddhism	a religion, originated in India by Buddha (Gautama) and later spreading to China, Burma, Japan, 11bet, and parts of southeast Asia, holding that life is full of suffering caused by desire and that the way to end this suffering is through enlightenment.		
Polytheism	The belief in or worship of more than one god.				
Creationism	the belief that God created all things out of nothing as	Enlightenment	the state of having knowledge or understanding		
creationism	described in the Bible and that therefore the theory of	Buddha	Buddha is the title given to Gautama Siddhartha, the religious teacher and tounder of Buddhism		
	evolution is incorrect	Dalai Lama	the spiritual head of libetan Buddhism and, until the establishment of Chinese communist rule, the spiritual		
cosmological	relating to the origin and development of the universe	Sikhism	and temporal ruler of Tibet a monotheistic religion tounded in Punjab in the 15th century by Guru Nanak		
Revelation	the divine or supernatural disclosure to humans of some-	Guru Granth	The sacred text of Sikhism, considered by Sikhs as the eleventh and final <i>guru</i> and as the repository of God's		
	thing relating to human existence	Sahib	revelation to humankind		
Evolution	The process by which different kinds of living organism are believed to have developed from earlier forms during	Guru Nanak	Indian religious leader who founded Sikhism		
	the history of the earth.	Gurus	an influential teacher		
N					
Natural Selection	Natural selection means that some individuals in a spe- cies are better at surviving than others and will have		Abrahamic religions—Christianity, Judaism and Islam		
	more children	Abrahamic reli	jions Islam, Christianity and Judaism are the three main Abrahamic religions because Abraham – or Ibrahim – is important to them all. They consider him an important prophet or father figure.		
Big Bang	the cosmic explosion that marked the beginning of the universe according to the big bang theory				
Red shift	It is a result of the space between the Earth and the	Islam	Islam, major world religion that emphasizes monotheism, the unity of God ('Allah' in Arabic), and Mu- hammad (PBUH) as his final messenger in a series of revelations.		
	galaxies expanding. This expansion stretches out the light waves during their journey to us, shifting them towards the red end of the spectrum. The more red- shifted the light from a galaxy is, the faster the galaxy	Christianity	Christianity is the most widely practiced religion in the world, with more than 2 billion followers. The Christian faith centers on beliefs regarding the birth, life, death and resurrection of Jesus Christ		
Einstein	is moving away from Earth. Albert Einstein was a German-born theoretical physicist,	Judaism	Judaism is the world's oldest monotheistic religion, dating back nearly 4,000 years. Followers of Juda- ism believe in one God who revealed himself through ancient prophets.		
Linstein	widely acknowledged to be one of the greatest physicists of all time. Einstein is known for developing the theory of	Quran	the Islamic sacred book, believed to be the word of God as dictated to Muhammad by the archangel Gabriel and written down in Arabic.		
Dawkins	relativity Richard Dawkins FR5 FR5L is a British evolutionary biol-	Bible	the Christian scriptures, consisting of the Old and New Testaments		
	ogist and author	Tanakh	The Jewish Bible is known in Hebrew as the Tanakh, an acronym of the three sets of books which com- prise it: the Pentateuch (Torah), the Prophets (Nevi'im) and the Writings (Ketuvim).		
Darwin	Charles Robert Darwin FR5 FR65 FL5 F25 was an Eng- lish naturalist, geologist and biologist, best known for his	stewardship	the job of supervising or taking care of something		
	contributions to the science of evolution	Dominion	ruling or controlling power		
Darwinism	Darwinism is a theory of biological evolution developed by the English naturalist Charles Darwin and others, stating	Genesis	The Book of Genesis is the first book of the Hebrew Bible and the Christian Old Testament. In Judeo- Christian traditions it is viewed as an account of the creation		
	that all species of organisms arise and develop through the natural selection of small, inherited variations that	Eden	the garden where according to the account in Genesis Adam and Eve first lived		
	increase the individual's ability to compete, survive, and reproduce	Adam & Eve/H	Adam and Eve (Hawa in Islam) are the Bible's first man and first woman. Adam's name appears first in Genesis 1 with a collective sense, as "mankind"		

		Key words			Key Knowledge on the environment
1	Stewardship	The basis that God owns the world as seen in Genesis but has given humans the responsibility to look after, and care for, the world.	1	Stewardship	A good example of stewardship is a steward at a sports match/concert- the look after the people on behalf of the company; we look after God's creation on his behalf.
2	Dominion	The idea that God allows us to rule over his creation. It still does not mean we own it but can use it.	2	Dominion	The idea that God allows us to rule over his creation
3	Instrumental worth	Having value based on its usefulness (usually to humans due to anthropocentrism).			Some say to do as we see fit but this is often tied to stewardship and therefore requires an element of com-
4	Intrinsic worth	Having value in itself, not due to usefulness.			passion. Stewardship is about being responsible for the care of the planet.
5	Humanism	The idea that the scientific method, evidence, and reason ought to be used to discover truths about the universe and thus human welfare and happiness are at the centre of their ethical decision making.	3	Sanctity of life	The belief that all human life has value and therefore needs to be cared for. This concept can be linked to stewardship e.g using air con excessively and other western luxuries have an impact on LEDC's. It is only
6	Sanctity of Life	The idea that all HUMAN life has value and so therefore we need to care for all.			about humans.
7	Ahimsa	The concept of 'non-violence' within the Vedic religions e.g. Hinduism and Buddhism.	4	Green Chris- tians	These are Christians who respond to the ecological crisis
8	Halal	Means to be 'permissible' under Islamic law and haram means to be 'not permissible' according to Islamic law.		nuns	that they believe has deepened so they seek to live more gently on the earth, and lessen their impact on God's creation as a whole.
9	Ecological sin	Pope Francis has shown a care for the environment by stating that not caring for the world is sinful (sin = going against God).	5	Environmental rights	Having access to the unspoiled natural resources that enable survival, including land, shelter, food, water and air.
10	Sustainability	Avoidance of the depletion of natural resources in order to maintain an ecological balance; not wasting things and conserving for the future.		1	

Knowledge Organiser: Topic 2—'How should we care for the environment?'

	Key Knowledge on animals				
1	Ahimsa	The concept of 'non-violence' within the Vedic religions e.g. Hinduism and Buddhism. In Buddhism, this links to the First Moral Precept of 'abstain from harming any living thing' as it causes dukkha (suffering) which is an unskilful action. In Hinduism, all living beings have souls therefore it is wrong to harm.			
2	Halal	Means to be 'permissible' under Islamic law and haram means to be 'not permissible'. In the context of food, there are several rules regarding this that reflect the Qu'ran and Sharia law. The most famous are the methods of slaughter but some food is forbidden too such as pork.			
3	RSPCA view on the slaughter of animals	They think that animals should only be killed it it is as tree trom suttering as possible. "We're opposed to the slaughter of any animal without first ensuring it is… stunned prior to slaughter. Evidence clearly indicates that slaughter without pre-stunning can cause unnecessary suffering."			
4	Animal rights	This reters to the idea that animals deserve certain kinds of consideration—consideration of what is in their best interests.			
5	Greenpeace	Greenpeace is an organisation and movement of people who are passionate about detending the natural world from destruction. Their vision is a greener, healthier and more peaceful planet, one that can sustain life for generations to come.			





The ywill explore the A&D the formal elements through the work of others and a screte of written and practical activities. Develop an understanding of drawing, the tasks. Such as <i>Tonal Portrait and Ceramic</i> and <i>Such as through the work of the tasks</i> . Such as <i>Tonal Portrait and Ceramic</i> . Pupels will evaluate their process and effectiveness of ach autome they produce using this <i>A</i> wow achieves and is the taw or achieves and the tesson and to the tesson and to the tesson. and to the tesson and to the tesson and to the tesson and to the tesson and to the tesson. SEENTIAL KNOWLEDGE You will Learn Thet Recording from You you come of the tesson and to the tesson. Techniques and Processes: You will learn how work of the singer of the shapes across. Were VeroRDS & FORMAL ELEMENTS Recording from You you come of the shapes across. The protein adapted in the specific tesson. Techniques and Processes: You will learn how work of the shapes across. Name VeroRDS & FORMAL ELEMENTS Recording from You you come of the shapes across. The protein adapted in the specific tesson. Techniques and Processes: You will learn how the specific tesson. You work with the specific tesson. Recording from You you come of the shapes across. The protein adapted in the specific tesson. Technique and Processes. You will the firm of the shapes across. You work with the specific tesson. Recording from You you come of the shapes across. The soften adapted in the specific tesson. The context of the shapes across. The soften adapted in the specins. Technique adapted in the s	EXPLORE		DEVELOP		CREATE		EVALUA	ſE	
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ey Practitioners – Artists, esigners, Movements and nemes Materials/ Mediums/ Techniques CERAMIC TECHNIQUES Natural forms: objects or living creatures in their natural form, leaves, flowers, seeds, pine cones, sea creatures, shells	•	The feel or appearance of a surface, how	rough	6B 4B 2B B					
	Designer hemes Natural F living cre natural f seeds, p creature	rs, Movements and Forms: objects or eatures in their orm, leaves, flowers, ine cones, sea s, shells	CERAMIC	C TECHNIQUES	Foreground Front of picture Middle ground Middle area of pict Background Appears in distance Printing Method of repeati layering Adding different so Medium Material art is made Primary 3 base colours Secondary	ture. e in picture ng an imag urfaces on to	space.	the relationship of the size of one element when compared to another. Symmetry has identical parts mirroring each other across a line of symmetry.	



Y7 Food – Preparing Food Safely & The Eatwell Guide

		1478.	
EXPLORE	DEVELOP	CREATE	EVALUATE
EXPLORE Explore how to keep safe when preparing food ingredients and how to ensure that you work in a hygienic and methodical way. Use the principles of <i>The Eatwell Guide</i> , when devising meals and menus for themselves and others. Name the section names and foods they contain.	DEVELOP Applies all principles of food safety and hygiene when preparing and cooking ingredients. Name the correct cutting methods and know when to use the Bridge method and when to use the Claw methods appropriately.	CREATE Select and use a range of ingredients to make a couscous salad, bread rolls, apple crumble, Cheese Scones and Vegetable stir fry Use correct preparation methods and correct equipment with care.	EVALUATE Reviews practical work with detailed responses. Sentences are well written and most prompt questions are considered throughout responses.
	e – You will learn that	Techniques and Proces	ses – You will Learn how
What is the Eatwell Guide? Comprises 5 main food groups. Is suitable for most people over 2 years of age. Shows the proportions in which different groups are needed in order to have a well-balanced and Shows proportions representative of food eaten more. Why is the Eatwell Guide important? The Eatwell Guide shows you how much (proportions) of food you need for a healthy balanced diet What are the consequences of a poor diet A poor diet can lead to diseases and can't stus from fighting off infections. What are the sections on the Eatwell Guide Fruit and vegetables Potatoes, bread, rice, pasta and other stard food Dairy and alternatives Beans, pulses, fish, egg, meat and other proteins Oils and spreads	thealthy diet. over a day or	<image/>	



Key Practitioners – Artists, Designers, Movements and Themes	Materials/ Mediums/ Ingredients – Origins and Properties	Subject & Topic Terminology
Washing up Step 1: Put the plug into the sink. Fill the sink up with hot water to about half way. Add a few squirts of washing up liquid while it is filling up. Step 2: Scrape your plates and then ple your washing up in the order you are going to wash it next to the sink – Always start with knifes, dry and return these to the knife block straight away. Step 3: Wash each item with a dish cloth or brush. Step 4: Dry the dishes with a tea towel. Step 5: Wipe down the sink area using a dish cloth and remove any food from the plug hole. Step 6: Put the washing up liquid, brush and sponge back in the silver pot next to the sink.	CLEAN Your hands, tools, and food preparation area	 The Eatwell Guide: A healthy eating model showing the types and proportions of foods needed in the diet. Hydration: The process of replacing water in the body. Energy: The power the body requires to stay alive and function. Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and
MY WASHING UP CUIDE VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION ROUTER TO EXPORT WITH CUIDE AND CLAIPSET Image: Contract with the claip separate sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claip separate sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claip separate sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claip separate sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claip separate sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claipset sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claipset sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claipset sector and claipset VEEP 'EM SEPARATED AVOD CROSS CONTAMINATION For Storage Image: Contract with the claipset of the claips	Industrialities, tools, and root preparation area should all be clean before you cook. SEPARATE Steer clear of cross-contamination by keeping raw meat, poultry, seafood & eggs separate from all other foods. COOK Cook to proper temperature and serve hot: Don't stay in the danger zone!	 maintenance of the body. These are fat, Carbohydrates and fats. Micronutrients: Nutrients which are needed in the diet in very small amounts. These are called vitamins and minerals. Evaluation: the making of a judgement about the amount, number, or value of something; assessment.
	Cook your food completely and make sure it reaches the proper temperature before eating. Use 165° for leftover reheating. Avoid the danger zone between 40° and 140°F. See codsalety gov for the USDA safe meat temperature guide. Chill quickly: Chill Chill Chill Don't be in the danger zone! Chill Quickly: Chill leftovers quickly or within 1-2 hours. Defrost food in the refrigerator or under cold running water. Serve and store cold food cold below 40F.	 Bridge Cutting method: This method of cutting is safe and can be used for lots of different ingredients, such as tomatoes, potatoes, peppers and strawberries. Claw Cutting method: This method of slicing is safe, and can be used for lots of different ingredients, such as peppers or courgettes or celery

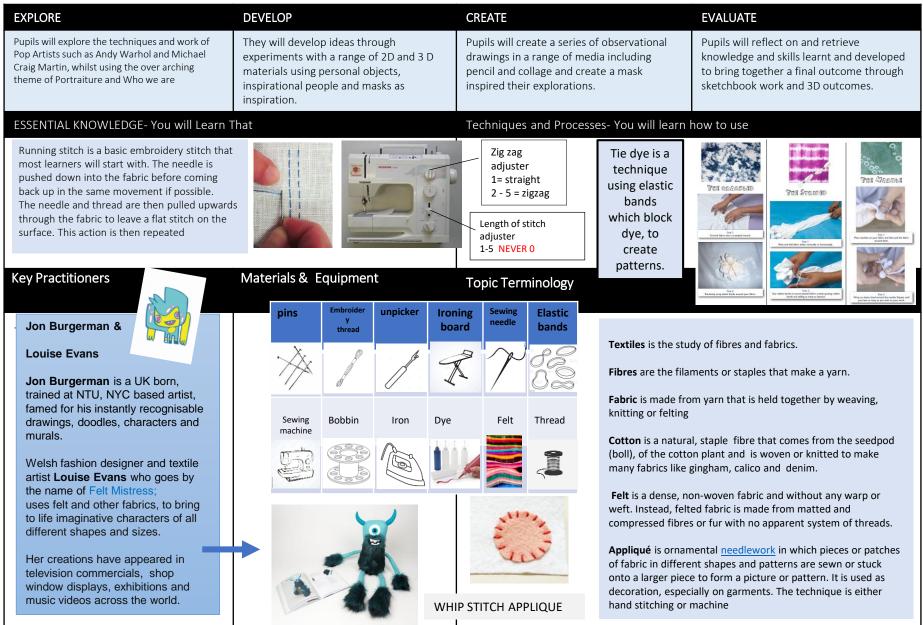


Y7 Product Design – Wooden Puzzles

EXPLORE			DEVELOP		CREATE		EVALUATE	
as a subject and explore the properties of Wood, Deforestation and Is Compostable Furniture the Future of Sustainablethe designs of patt work of Karim Rash to a wood based p		Will develop their own de the designs of patterns ar work of Karim Rashid. The to a wood based product catching to children.	nd colour in the ey will adapt these	Design a thick wooden Jigsaw puzzle for young children. This will be a personal response to the work of Karim Rashid and will meet the brief and consumer profile.		al others as wel and understandin	lect and analyse the work of I as their own to develop an g of the design process. This eir evaluation of the project ss rate.	
ESSENTIAL KNC	DWLEDGE- You	will Learn That	Jigs &		Techniques	and Processes-	You will learn how	N
Key Practition Movements o		Designers,	Materials/ Mediums/ Origins and Properties		Topic Tern			
Egyptian-born	and Canadian		Natural Woods		Keywo	rds — you must know		
raised Karim Ra			Softwoods Hardwoods Image: Softwood state st			e all mean and be able	Moto	or housing Pillar drill
	ner. His designs					o spell them:	Guard	
include furnitu	re, lighting, brand identity	J			PVA glue	Chipboard		
. .	His colour and				Glass pape			
patterns will in					Deciduous	Plywood		
designs for a co	olourful jigsaw.				Evergreen	Laminated		Chuck
Ν	/lanufactured boa	ards		P -Y	Pillar drill	Glass paper	Scroll saw	
MDF	Chipboard	Plywood			Drill bit	Dowel		Table
			Have large, broad leaves	Have small needles for leaves	Coniferou	Wood finish		
	A d		Grow in warmer countries - need long, warm summers	Can survive in colder countries with long winters	Scroll saw	Chuck key		the pillar
			Have fruit, seeds or nuts	Have cones – they are coniferous – sometimes berrie	Jig	Junior hacksaw		
	1 march 1		Tall, thin trunks	Wide, short trunks	Bench hoo	k Wood stain		
Tiny particles (dust)	Small particles (size of	Lavers of wood glued &	Grow quickly – 60+ years	Grow slowly – 150+ years	Belt sande	r Specification		
of recycled wood glued & compressed	coffee granules) of recycled wood glued	compressed together (laminated together)	Produces cheap timber	Produced expensive timber	Marking o	ut Isometric	-	
together	& compressed together		Evergreen – keep their leaves all year round – they are	Deciduous – lose and regrow their leaves every year -	Brief	Market research	Bench hook	∇
Used for furniture,	Used for flat-pack	Used for furniture, and	survivors	hibernators	Aluminiun			V
cabinets, flooring	furniture, kitchen worksurfaces and kitchen cupboards	making buildings e.g. floor and roof	e.g. pine, cedar, spruce, deal, yew, larch, cypress	e.g. oak, birch, beech, teak, mahogany, apple, ebony, ash, cherry, walnut, tulip	oxide pap			Junior hacksaw



Y7 Textiles - Monsters



Spelling Champs Lists



	FRENCH	ENGLISH
1	bonjour	hello
2	salut	hi/bye
3	bonsoir	good evening
4	bonne nuit	good night
5	au revoir	goodbye
6	merci	thank you
7	s'il vous plaît	please
8	monsieur	mister
9	madame	mrs
10	mademoiselle	miss
11	je voudrais	I would like
12	un stylo	a pen
13	un cahier	an exercise book
14	un livre	a book (text/reading)
15	une gomme	a rubber
16	rouge	red
17	noir	black
18	jaune	yellow
19	blanc	white
20	vert	green
21	rose	pink
22	c'est	it is
23	ce n'est pas	it is not
24	je m'appelle	I am called
25	et	and

		I
26	mais	but
27	ou	or
28	aussi	also
29	hiver	winter
30	printemps	spring
31	été	summer
32	automne	autumn
33	très	very
34	trop	too
35	assez	quite/fairly
36	un chien	a dog
37	une tortue	a tortoise
38	j'aime	l like
39	j'adore	l love
40	je n'aime pas	I don't like
41	je déteste	I hate
42	la famille	family
43	une maison	a house
44	mon père	my dad
45	ma mère	my mum
46	j'habite	I live
47	anniversaire	birthday
48	ans	years
49	il y a	there is / are
50	il n'y a pas de	there is not

History

Knowledge Organiser: Norman Conquest

Contenders for the throne	Battle of Fulford	Battle of Hastings
At the start of 1066 Edward the Confessor	January 1066 – Harold Godwinson	Harold Godwinson quickly marched south
(king of England) died but there was no	crowned himself king of England but he	to meet William and the two armies
clear to heir to the throne. There were	now faced attack from the other rivals	fought the Battle of Hastings on 14 th
four rivals who all wanted to be the next	Early September 1066 – Harald Hardraada	October 1066
king:	landed in the north of England ready to	AVV. E
1. Edgar Aetheling – the king's great	seize the throne	
nephew so had a strong claim to the	Battle of Fulford (20/9/1066) – Edwin and	
throne, but he was only a young	Morcar two Saxon earls attacked	
teenager with no experience of	Hardraada near York but they were easily	
ruling	defeated by the Vikings.	
2. Harold Godwinson – powerful		X " LAVI
Anglo-Saxon earl and warrior, he	Battle of Stamford Bridge	mine
had experience of ruling and was	Harold Godwinson quickly marched his	
related to Edward by marriage	forces from the south of England, where	Why did William win the battle of
3. William, Duke of Normandy –	he had been waiting for William's invasion,	Hastings?
dominant French duke, he had	to the north	Preparation – Harold's forces were
experience of ruling and fighting		exhausted after the long march south
battles, he claimed he had been	Godwinson caught the Vikings by surprise	whereas William's forces were rested and
promised the throne by Edward and	and attacked them at Stamford Bridge on	
Harold Godwinson had also	25/9/1066	he had archers, foot soldiers and knights
promised to support him		ready to attack
4. Harald Hardraada, King of Norway –	The Vikings were defeated after several	Leadership – William used clever tactics
fearsome Viking warrior who was	hours of fighting and Harald Hardraada	such as the 'fake retreat' during the battle
already a king, he had experience of	was killed but Godwinson was now told	which tricked the Saxons into breaking their shield wall
ruling and felt he was claiming the	that William, Duke of Normandy, had	Luck – at a critical moment in the battle
English throne back for the Vikings,	landed on the south coast	Harold Godwinson was killed
he knew how to invade and conquer		harolu Godwinson was killed
· · ·	1	

Knowledge Organiser: Medieval England

Religion and the Church	Life in villages and towns	Women in Medieval England
 What did people believe? Almost everyone in England were Christians and believed in God, heaven and hell People were scared of going to Hell and huge Doom paintings showed the horrors that awaited sinners The Pope was the head of the Catholic church and seen as God's representative on earth Most people would attend church regularly to take part in mass or confess their sins to the priest Key People Priests – head of the local church in villages and towns. Performed important ceremonies such as baptisms, marriages and funerals. Collected charity. Helped organise community events. Monks and Nuns – Lived separately from society and dedicated their lives to God. They lived simple lives. Monks were able to read and write and speak Latin. Both monks and nuns provided charity to those in need. 	 Medieval villages Most people in medieval England were poor peasant farmers (villeins) who lived in villages The lord of the manor was the most powerful man in the village and owned most of the land Villeins would have to work on their local lord's land for three days per week Villages usually included a manor house, church, mill and workshops for a blacksmith and carpenter Villeins were not allowed to leave the village as they were owned by their lord 	 Women were usually under the control of men, young women were controlled by their fathers and once married their husbands took over Girls married at a young age and could be trapped in a violent marriage if they were unlucky Many women had 5-6 children by their mid-20s and teenage pregnancies were encouraged Many women died during childbirth and many children did not survive into adulthood <u>Advantages for women</u> Women would not have to fight for the king in times of war High-ranking women could inherit their husband's land and title Women who beat their husband were rarely taken to court as it was too humiliating When husbands and wives commit a crime together she can escape punishment by claiming she was just obeying her husband
 Importance of religion Religion dominated medieval peoples' lives and many people attended mass every day Before Science developed religion helped to explain matters people did not understand The Church had its own courts where people could be fined for non-attendance People gave one-tenth of their crops or earnings to the church as a tithe (tax) 	 Life in medieval towns By the late 14th century there were about 20 towns in England with a population over 3,000 London was the largest town with about 40,000 people A wall surrounds the town with a gatehouse at its entrance Towns were busy places with plenty of shops and merchants, knights and noblemen 	

Geography

What makes up the UK?

and Northern Ireland.

Ireland.

Wales.

Year 7 Unit 1 What is the UK like?

Rainfall in the UK

Precipitation means rain, snow, sleet or hail that falls to or condenses on the ground.

Wales and the north west (upland areas) of the UK see larger amounts of rainfall compared to the further south and east you go.

There are 3 types of rainfall:

- Convectional rainfall
- **Relief** rainfall
- Frontal rainfall



934mm

Average annual rainfall

Over 2,000mm

verness 730mm

Falmouth 1.100mm

ort William 2.000mm

Manchester

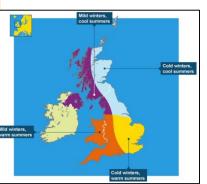
London 510mm

Norwich 650mm

860mm

The British climate

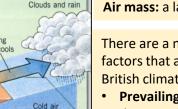
Britain has a mild climate. It is in the **temperate** climatic zone and the sea affects the weather. This means that Britain gets cool, wet winters and warm, wet summers. The weather conditions are also very changeable.



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Prevailing wind: the dominant direction from where the wind blows

Air mass: a large body of air with similar characteristics



There are a number of factors that affect the British climate:

- Prevailing winds direction from where the winds come from
- Latitude locations that are further north receive less concentrated energy from the sun

Arctic (Cold and guite

- Altitude Temperatures decrease with altitude. There is a 1°C drop for every 100 m in height as the air is less dense.
- Distance from the sea The sea takes longer to heat up and cool down than land. So in the winter the sea keeps coastal areas warm and in summer, it cools them down.
- **Ocean currents** Britain's mild climate is partly due to the Gulf Stream, a large Atlantic Ocean current of warm water from the Gulf of Mexico.

Physical Landscape of the UK

Relief: The shape of the land - how high or low, flat or steep it is.

The UK is a country in western Europe that

United Kingdom: England, Scotland, Wales

British Isles: England, Scotland, Wales,

Northern Ireland and Republic of Ireland

is made up of 4 nations; England (the

Great Britain: England, Scotland and

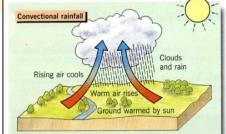
largest), Scotland, Wales and Northern

Mountainous (upland) areas tend to be in the north and west of the UK. Low lying (lowland) areas tend to be in the south east of the UK.

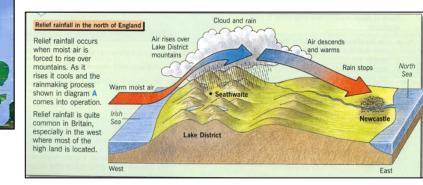
Some examples of mountain ranges are the Cambrian Mountains in Wales, the Pennines in northern England and the Grampian Mountains in Scotland.

The longest river in the UK is the River Severn (354km) which has its source in Wales.

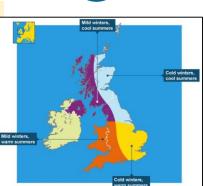
The River Thames is the longest river in England and flows through London.



When the ground surface is heated by the sun, the air above is warmed up. This air rises and as it cools down clouds form and rain follows. The showery weather and thunderstorms of a British summer are this type of rainfall.



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Frontal rainfall Warmer, lighter air rises Rising over heavier, colder air air cools

200 km

When a mass of warm air meets air at a lower temperature, it rises up and over the colder, heavier air. Once it is made to rise, cloud and rain will follow due to the process shown in diagram A. The place where warm air and cold air meet is called a front. Frontal rainfall is very common in Britain throughout the year and especially in winter.

Population

Population **distribution** – the way people are spread out **Sparsely** populated – few people in an area **Densely** populated – many people in an area The UK has a population density of approximately 260 people per sq km.

		5 2	An at	The second	
Factors leading to densely populated areas	Factors leading to sparsely populated areas				
Flat or gently sloping land	Steep slopes				
Mild climate	Harsh climate – very hot or very cold	ion density (• 5,000 • 50 - 1,000	(people per km ⁻) 2,500 - 5,000	 1,000 - 2,500 0 - 50 	
Good (fertile) soils	Dense forests				
Lots of job opportunities	ots of resources e.g. coal Lack of resources nd oil		Push factors		
Lots of resources e.g. coal and oil			Lack of services		
Water			Low employment		
water			Lack of safety		

Zones of a town/city

CBD – The central business district is the commercial centre of the city. There are many tall buildings, land is expensive to rent/buy, few people live here and railway and bus stations are often found here.

Inner city – The area next to the CBD usually built before World War II. You often find terraced houses and abandoned run down factories and warehouses.

Suburbs – This is the area on the outskirts/edges of a city. Here are large detached and semi-detached houses with garages, land is cheaper than the CBD and there is lots of open space.

Suburbs

Inner City CBD

Remember - lots of things in Geography can be categorized into social (to do with people), economic (to do with money) and environmental.

Migration

Some people choose to migrate (voluntary) or others may be forced to move (forced).

Internal migration when someone moves within a country.

International migration when someone moves across country borders.

Emigration is when people are leaving or exiting a country.

Immigration is when people are moving into a country.

Push factor – something negative that makes a person leave where they live.

Pull factor – something positive that attracts a person to a place

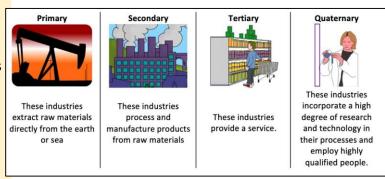
Leicester

Located in the East Midlands region of England and in the county of Leicestershire.

Leicester's population is very diverse. Population in 2016: 348,343

- Over 70 languages spoken
- Close to M1 and M69 motorways
- Hosts large multicultural events:
 - Caribbean carnival
 - Diwali celebrations
- Has 2 universities
 - Leicester University
 - De Montfort University

UK employment structure



Most people in the UK work in the tertiary sector providing a service.



Positives of tourism

High crime

Crop failure

Drought

Flooding

Poverty

War

Creates jobs. It brings money into the area. New infrastructure and facilities are created. Negatives of tourism Jobs are seasonal. An increase in traffic, litter and noise. Overcrowding and conflict between locals and tourists.

Pull factors

Higher employment

Lower risk of natural

Better services

Safe society

Less crime

Fertile land

hazards

Good climate

More wealth

Political stability

UK Nations Human Geography

The map shows the UK nations and their capital cities.

England has the largest population and London is the biggest capital city.

England is also the largest country by land area.

How does weather and climate affect our lives?

Key words:

Weather: The short term state of our atmosphere which can vary on a daily basis, e.g. sunny, rainy, windy.

Climate: The long term average temperature and precipitation for a specific location., normally measured over a 30 year time period. **Climate change**: significant changes in temperature, rainfall and wind as a result of a warmer atmosphere.

Why is studying the weather important?

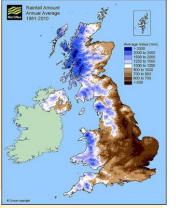
- Farmers study the weather so they know whether rain is forecast for their crops.
- Extremes of weather can lead to flooding which can damage homes and cost money.
- Changes to weather can disrupt transport e.g. roads can become icy which can be dangerous.

How do we measure the weather?

Weather measurement	Units	Instrument
Air temperature	°Celsius	Thermometer
Rainfall	mm	Rain gauge
Wind speed	m/s	Anemometer
Wind direction	Compass directions	Wind vane
Humidity	% water in air	Hygrometer

How do temperature and rainfall vary across the UK?

The western side of the UK receives more rainfall (shown in blue on map) than the east (shown in brown) as the UK's weather comes from the Atlantic Ocean so the air contains more moisture. The air is forced to rise over higher ground forming relief rainfall in western areas. The clouds have then lost their moisture so the east is much drier.



The south of the UK is warmer than the north as it is closer to the Equator (a factor called latitude).

The UK has 4 distinct climate zones. The higher relief upland areas are also colder as temperature decreases with altitude (height above sea level).

Why does climate vary around the world?

Global Circulation System: The Equator receives the most energy from the Sun and so the global circulation system works to redistribute the heat around the world. Air rises in some places (Equator and 60°N and S) creating high rainfall, whereas air sinks at other places (30°N and S and 90°N and S), creating dry conditions or deserts.

Ocean circulation: Water also moves around the oceans to help spread heat around the world. This ideas was seen when a container of ducks opened and the ducks floated all around the world.

How does climate influence the world's biomes?

There are 7 main climate zones as shown on the map – these are areas with distinct temperatures and rainfall totals. The climate in these areas influences the plants and animals that are found there and the location of biomes.

Biomes: A large scale community of plants and animals occupying a particular habitat.

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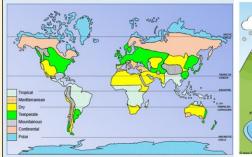
What are the main features of the major biomes?

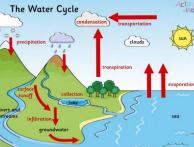
Polar: Very low temperatures and low rainfall. Animals are adapted e.g. polar bears have thick fur. Few plants grow here due to cold, e.g. Arctic.

Temperate: Moderate temperature and rainfall, range of animals and plants found here, good conditions for plant growth, e.g. UK.

Mediterranean: Warm temperatures and moderate rainfall, plants such as olive trees found here, e.g. southern Spain.

Hot desert: Very high temperatures and v. low rainfall, few plants can survive except cacti, animals are adapted, e.g. Sahara desert, north Africa. Tropical rainforest: High temperatures and high rainfall, rapid plant growth, many animals found here, e.g. Amazon rainforest, Brazil.





How much water is available?

- There is a fixed volume of water on the Earth which has not changed over time.
- 97% of water is salt water and 3% is fresh water.
- However, the demand for water has increased by 600% as population has increased and people use more water in their daily lives.

How does weather and climate affect our lives?

What is water scarcity?

- Water scarcity occurs when there is more demand for water than there is water available leading to a shortage of water.
- This can be due to lack of rainfall physical water scarcity.
- Or lack of money to provide clean drinking water for people – economic water scarcity.

What is drought and what are the causes?

- Drought is a prolonged period of unusually low rainfall that can lead to water shortages.
- The main physical cause of drought is a lack of rainfall, but it can be made worse by human actions such as building dams and deforestation.

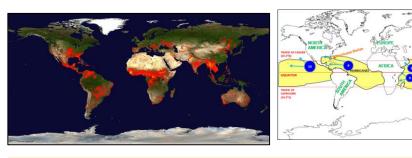
Drought in the Horn of Africa

Causes: the area only received 30% of the normal rainfall totals in 2011 and 2012.

Social impacts (people): 12 million people needed food aid, 920 000 people left Somalia as there was so little food available.

Economic impacts (money): price of food went up by 68% and \$2.48bn was requested to help. Environmental impacts: too much grazing of animals harmed the soil and trees were cut down.





Why are wildfires becoming more common?

- A wildfire is a large, destructive fire that spreads quickly over scrubland (type of trees) or bushes.
- Heat, fuel and oxygen are needed for wildfires to burn.
- Climate change is increasing the size, frequency, intensity and seasonality of wildfires.
- While climate change might not ignite (start the fire burning) the fire, it is giving fires the chance to turn into large, dangerous blazes.
- It creates warmer temperatures, increasing the amount of fuel (dried vegetation) available, and reduces water availability.

What causes flooding?

- River flooding occurs when there is too much water in the river so some of the water overflows onto the land around.
- Some of the main causes of flooding:
- Extreme rainfall too much rainfall for the river to hold.
- Steep slopes rainfall reaches river faster so flooding more likely.
- Deforestation soil not held together by roots so blocks river.
- Urbanisation impermeable surfaces mean water cannot soak in and reaches the river quickly.

What are tropical storms?

Tropical storms are powerful low pressure systems which create heavy rainfall of 25cm a day and very strong winds of 120km/hr

- They occur in tropical waters (shown in map to left) as this provides more energy so the water evaporates and forms large rain clouds.
- Tropical storms cause damage as flooding destroys homes and the strong winds can damage vegetation, homes and power lines.

How do urban areas influence climate?

Urban areas: these are towns and cities with lots of buildings and higher population densities. Rural areas: these are the countryside and small villages – lots of green open spaces, fields etc.

- Urban areas have warmer temperatures than rural areas as the darker surfaces absorb more heat from the sun and there is less water and bare ground which cools air.
- Urban areas have more rainfall as the pollutants that are produced allow water droplets to form around them which forms clouds which creates rainfall.

The Greenhouse Effect Some sunlight that hits Earth is reflected back into space,

is reflected back into space, while the rest becomes heat

Greenhouse gases prevent heat from escaping into space, warming the planet

How is the climate changing?

- There are natural and human reasons why the climate is changing.
- Greenhouse gases trap more of the Sun's radiation which increases temperature.
- Human activity is producing more greenhouse gases such as carbon dioxide and methane.
- Trees and plants are able to absorb greenhouse gases.

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