

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				
ep 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.				
Step									
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.				
St)))								
					LIONHEART EDUCATIONAL TRUST				

Lionheart Literary Canon: Curating a Lifelong Love of Literature

Recommended books to have read by the end of Year 7

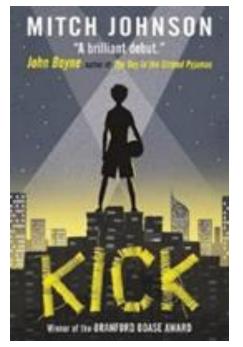




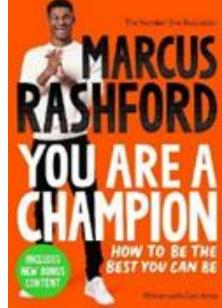
Pax (2017) Sara Pennypacker



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

Unit 1: The Ruby in the Smoke

RUBY IN THE S



Features of the Victorian Novel

- Realistic ٠
- 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.

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

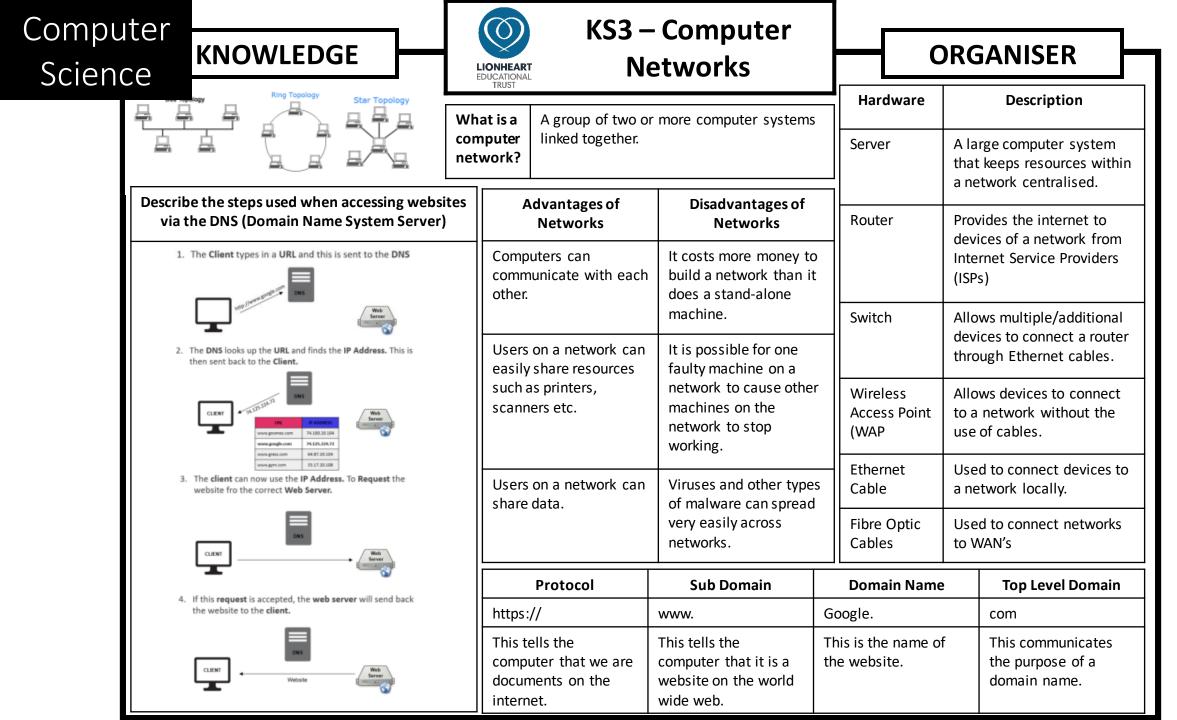
The Detective tradition as a genre

- 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

Compute Science		KNOWLED	GE	LIONHEART EDUCATIONAL TRUST			omputir mentals	<u> </u>	ORO	GANI	SER
			evices connected tog								
		What cou	ıld a network loc	ok like?			W =	P	P		
	Internet			File Server E-mail Server Printers		Word processing software		Publishing software	Present		Spreadsheet software
	Workstations		Network Cabling		Used when wanting to write a lot of text inside of a document. E.g. letter, story		A great choice when combining text with images. E.g. leaflets, posters	The t choice creati present to show audie	when ng a tation v to an	The ideal choice when working with data and formulas in a logical way	
		Top tip	s when using sea	arch engines st appear in your results. In must not include a certain word. ages that contain several words. What are computers bad at Making assumptions		Computer Security					
	AND	Can be used to specif	y words that mus				An example o	ample of personal information		d	ate of birth
	NOT	Can be used to searc	h for pages which			ord.	A program designed to corrupt your system is called When you wind someone up by sending them abuse online.		ur	Malware	
_	OR	Can be used when yo	u want to find pa			ls.					
		Used to search for ph	rases.						Trolling		
		What are computers	good at			l at	What can help avoid viruses?			Anti-virus/firewall	
	Storing	large quantities of info	ormation						Phishing		
	Doing as they are told Completing boring and repetitive task		Empathy Fixing themselves			company to get your information (normally through email)		-			
								yberbullying			
	Comple	ting complex equatior	ns efficiently				threatening r		<u> </u>		, , , ,



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.				

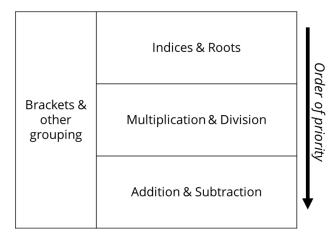
Maths

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: $a(b+c) \equiv ab + ac$
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

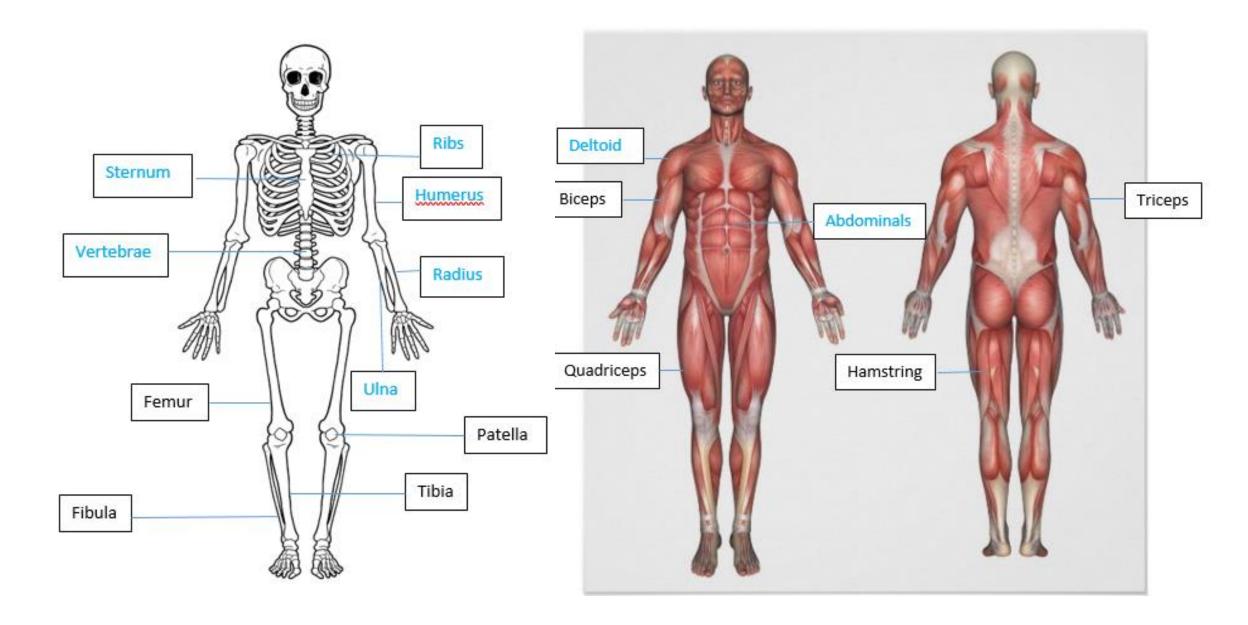
Where operations have <u>equal priority</u>, we work from left to right.

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.

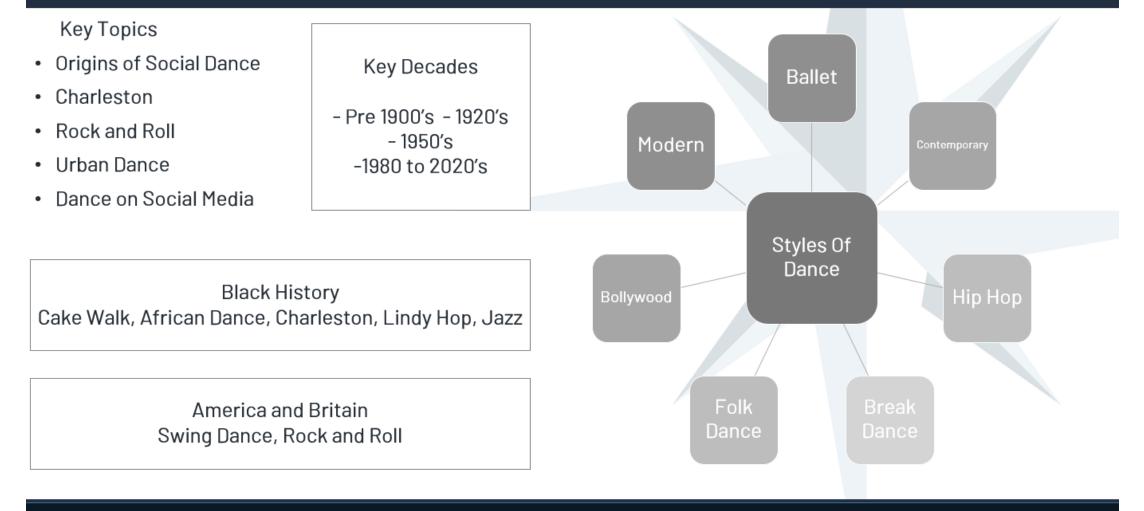
Key word	Description						
Aerobic	Use of oxygen for the duration of the exercise. Usually at moderate intensity at a continuous rate e.g. long distance running. Can be performed						
	for a long period of time.						
Anaerobic	Exercise which creates energy without the use of oxygen. Usually high or 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.

YEAR 7 KNOWLEDGE ORGANISER TERM 1: DANCE





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 <u>the action on</u> <u>stage freezes</u>- 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

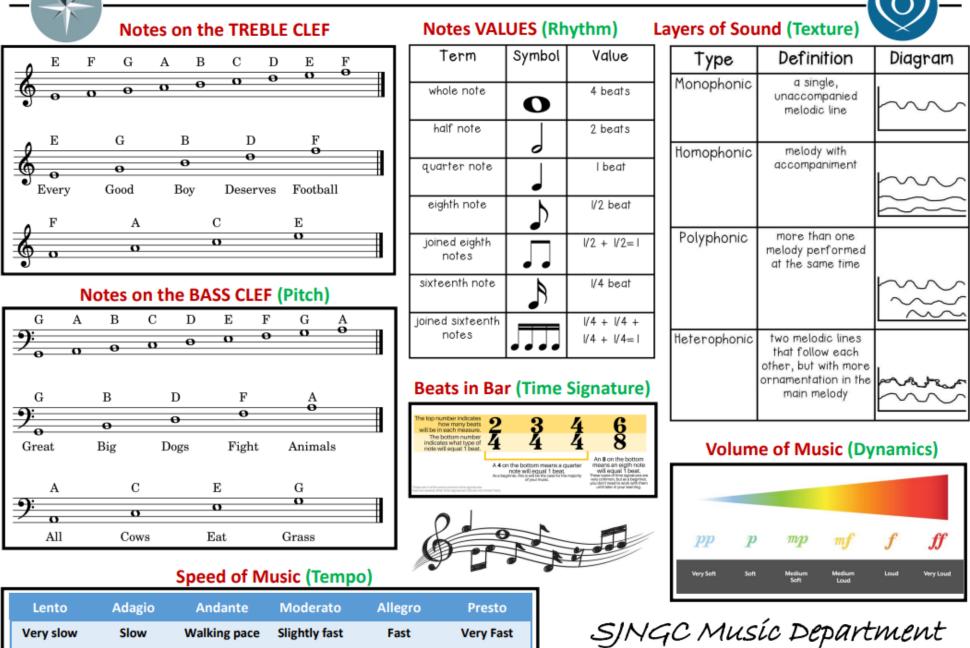
Learn the 10 spellings below:

1.) Physical

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

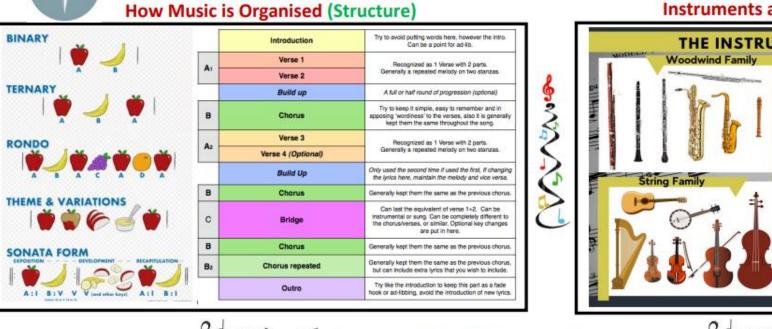
Music

KNOWLEDGE ORGANISER - ELEMENTS



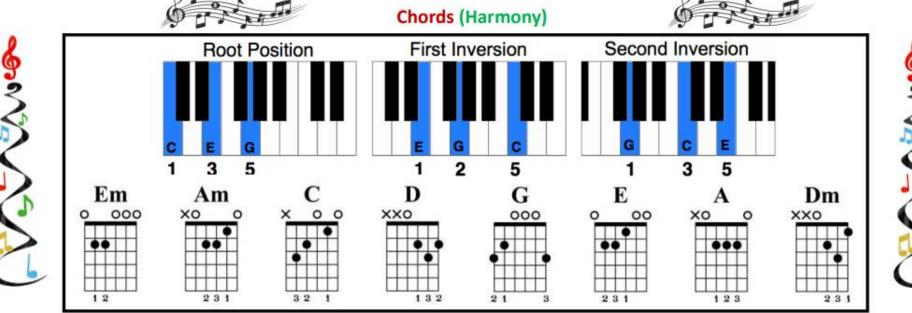
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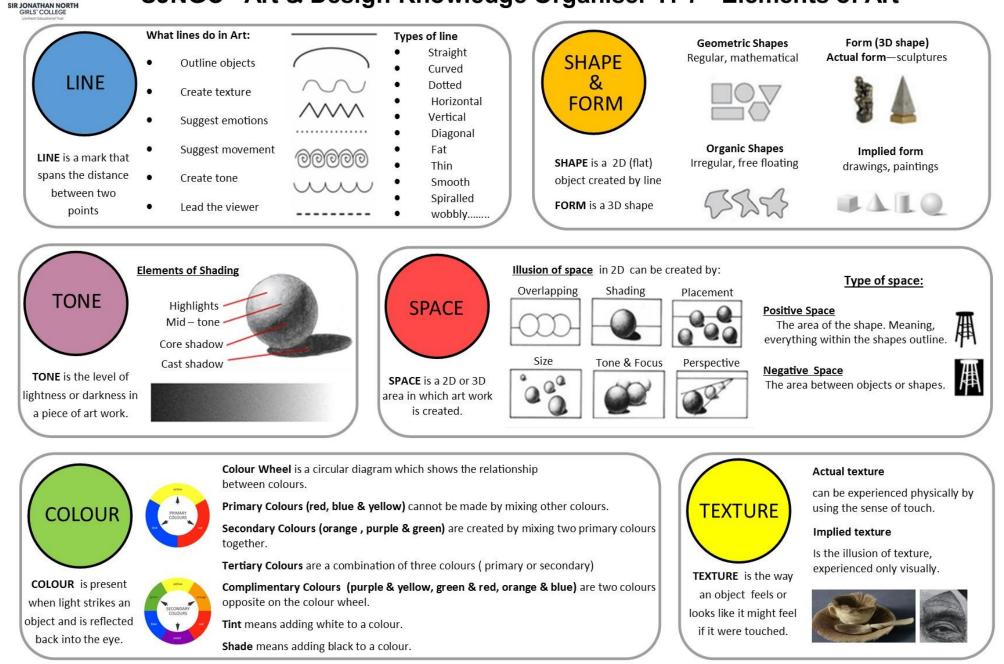








SJNGC - Art & Design Knowledge Organiser Yr 7 - Elements of Art



Design & Technology

Techno-spellings-

1. Jewellery-Personal ornaments such as necklaces.

2. Earrings- Jewellery worn on the ear lobe.

- 3. Acrylic- Plastic made from coloured polymers.
- 4. Pliers- Scissor action pincers for gripping.
- 5. Drilling- A machine with a rotating cutting tip.
- 6. Filing-Using a file to smooth edges of plastic.
- 7. Polishing-Using metal polish to give a shine.
- 8. Designing- Drawings showing of an idea.
- 9. Making-The process of producing something.
- 10. Analyse-Examine something in detail.
- 11. Evaluate-To judge the quality of a product.
- 12. Hearth-A stone lined place to heat up materials.
- 13. Sustainability-Using renewable energy/materials.
- Medium density fiberboard- Engineered wood.
 Headpin-Large pin for beads.

The design process

In DT we use a range of acronyms to help us to remember how to analyse, develop and design products. We use three at KS3 which are: CAFEQUE and SWOT used for analysing and SATSUMA used for writing a design specification.

S-Size

A-Aesthetics

C-Cost

A-Aesthetics F-Function S-Strength

E-Ergonomics	W-Weakness	T-Target market
Q-Quality	O-Opportunity T-Threat	S-Sustainability
U-Uniqueness	1-Incut	U-Uniqueness M-Materials
E-Ergonomics		A-Aids such as tools.

You will create a range of products that are functional, well made and aesthetically pleasing.

- Design challenge-you will be issued with a brief which will explain what you need to do.
- You will conduct research and analyse it using CAFEQUE/SWOT. You will generate a range of designs and make prototypes. You will write a specification using SATSUMA.
- You will use a range of materials and skills to make your products
- You will test and evaluate your products

Working with acrylic

- The key fob and the phone stand are made of thermoplastic.
- Acrylic plastic polymers are formed by reacting a monomer, such as methyl methacrylate, with a catalyst. These chemicals come from coal and oil.
- Thermoplastic has 'memory form' which means once it has been shaped, it can be heated up and it will go back to it's original shape. It can be recycled and comes in a range of colours including light gathering forms and transparent. We shape acrylic sheet on the disk sander, polish it using a range of abrasive paper of grits 240, 320 and 1000 then use metal polish to bring it to a high shine. We can drill through it using the electric hand drills and clamps. We heat it up using a hot air gun which allows us to twist it.
- We can mark it out using a biro and ruler on the protective plastic cover which protects it from scratching.
- We can bend the plastic by using the hot wire strip heater. Once products are made they can be enhanced by adding LEDs, gems and laminated photographs.
- Using hand tools to shape and cut wire.
- Analysing products to identify successful design features.
- Sketching in 2D using colour and labelling.
- Working with acrylic thermoplastic;
- Marking out, cutting using hand saws, smoothing using a disc sander, polishing using abrasive paper, drilling holes and shaping using a heat gun.
- Using a tri-square to mark out finger joints, cut, file and glue MDF.

•

Use creativity to decorate a jewellery box.

Design		Make		Evaluate	
A clear understanding of the user's needs. An extensive range of creative and original ideas show a high level of skill. Detailed annotation shows materials, tool and processes.	- Secure +	Students have used the working properties of the materials to make high quality, well finished, fully functioning products.	- Secure +	A detailed evaluation with improvements. Thoroughly evaluated against the specification and user's needs.	- Secure +
User's needs identified. Detailed analysis of research identifying materials leading to a detailed design specification. The ideas link clearly to the specification. Ideas communicated using a range of techniques and mediums.	- Working +	Appropriate tools were used with a good level of skill and accuracy. Used tools and equipment correctly and safely. Some accuracy and quality of finish demonstrated.	- Working +	A detailed analysis showing the impact of their work on society and the environment. Students have identified where their work can be improved.	- Working +
At lease one 2D sketch showing colour. The design partly addresses the brief and, with help, can suggest the strengths and weaknesses of their idea.	- Beginning +	A mostly finished product that uses one skill with some accuracy, using tools and equipment with help.	- Beginning+	Identify one good point and say what needs to be better next time. Be able to describe successful features.	- Beginning +

Using Machines and tools safely:

Disk sander, <u>Hegner</u> saw: Tie hair back, tuck scarf and lanyard in the apron, goggles, one at a time and wait behind the stripy line. Keep work flat on the bed, only for plastic and wood.

Laser cutter: CAD/CAM equipment which uses carbon dioxide laser technology to cut through all material but not metal. Do not stare at the beam, turn extractor on. **Electric hand drill**: Fast moving parts to drill holes. Goggles, hair tied back and wear an apron with scarfs and lanyard tucked in.

Hot wire strip heater: Hot wire heated so that it bends acrylic. Accurate and effective requiring focus when using.

Hot air gun: Used to gently heat up acrylic before twisting for the key fobs. Sensible behaviour, keeping fingers off the hot end-one at a time waiting behind the stripy line.

Coping saw: Used to cut wood and plastic. Versatile and accurate. Use both hands to cut. Apron.

Pliers-round nose, long nose and snips: Used to make earrings. Cutting, bending, making evelets.

Food Technology

Design and Technology Special Diets Knowledge Organiser

Key techno spellings and technical language with definitions.

Vegan-Plant based diet and lifestyle.

Vegetarian-No meat, dairy, eggs or fish.

Lacto-vegetarian-No meat, eggs, fish but are allowed dairy.

Ovo-vegetarian-No meat, fish, dairy but allowed eggs.

Lacto-ovo vegetarian-No Meat and fish but allowed dairy and eggs.

Macrobiotic-No meat but grains and seasonal fruit and vegetables with occasional fish.

Flexitarian-Typically vegetarian who occasionally eat meat, dairy, eggs and fish.

Local and seasonal-Fruit and vegetables grown locally and at the current time of year.

Micronutrients-Vitamins and minerals.

Macronutrients-Food groups in the eat well plate. **Coeliac disease**-An intolerance of gluten. **Diabetic**-Low sugar diet.

Lacto-intolerant-An intolerance to dairy foods. **Food intolerance**-Any food that an individual is allergic to.

Anaphylaxis- A serious condition to allergens which requires the use of an epi-pen.

Epi-pen-Epinephrine acts quickly to improve breathing, stimulate the heart, raise a dropping blood pressure, reverse hives, and reduce swelling of the face, lips, and throat.

Food Standards Agency list of 14 food allergens.

celery

cereals containing gluten – including wheat (such as spelt and Khorasan), rye, barley and oats (No gluten) crustaceans – such as prawns, crabs and lobsters

eggs

fish

Lupin (Type of bean)

milk

molluscs – such as mussels and oysters mustard tree nuts – including almonds,

hazelnuts, walnuts, brazil nuts, cashews, pecans, pistachios and

macadamia nuts

peanuts

sesame seeds

soybeans

sulphur dioxide and sulphites (preservative)

Dietary Illnesses and diseases

- Diabetes type 1 & 2
- Coeliac disease
- Lactose intolerant
- Illnesses linked to obesity



Vegan eat well plate

Religious diets Vegetarian and Vegan Diets Muslim Diets Hindu Diets Sikh Diets Buddhist Diets Rastafarian Diets Jewish Diets

• Poverty is the **main cause** of hunger in the **world**

OILS & FATS

walnuts and

rapeseed oil for

small portions (choose flaxseed.

- Job Instability
- Food Shortages and Waste
- Poor infrastructure
- Unstable Markets
- Climate Change
- War and Conflict
- Nutritional Quality

Textiles

Techno-spellings-

1. Research- Collating information about a range of products and identify needs by conducting a survey.

- 2. Specification- List of success criteria.
- **3. Analysis-** Using analysis acronyms to find out how successful something is.

4. Designing- Using 2D and 3D sketching techniques and colour to produce a range of ideas.

5. Creativity- Using inspiration from nature in designs.

6. Users needs- Identified success criteria based on an individual or group needs.

7. Manufacturing- The process of making.

8. Planning- Using dual coding to plan stages of making.

9. CAD/CAM- Computer aided design, computer aided manufacture.

10. Repeat pattern- Using a motif to create different patterns on fabric such as full drop and mirror image.

- **11. Pattern lay-** Strategic laying of pattern pieces.
- **12. Accuracy-** Working to within +1 or -1 tolerance.
- **13. Testing-** Finding out how successful a product is.
- 14. Evaluation- Analysing the final product.

15. Modification- Making improvements.

Working with fabric

- **Fabric;** The reversible bag and juggling balls are made from calico, 100% cotton fabric. Cotton is a sustainable material because it is a plant which will continue to grow once the cotton bols have been harvested.
- Tie and dye; The dyes use mostly natural pigments and come in a powder form. They are mixed with cold water.
 When natural fabric such as cotton, wool and silk are dipped into the dye, the fibres take on the pigment which is then made colourfast by sea salt usually mixed in with the dye.
- **Resist method of dying;** Patterns of different colours can be built up to create decorative effects. To achieve tie and dye, string is used as a resist. For batik, was is used and a flour and water paste can also be used.
- **Embellishment;** This word describes the effect of using a range of manufactured components to achieve decorative techniques such as; seed beads, sequins, buttons, embroidery and applique.
- **Sewing;** We will use sewing machines and hand stitching to make our products. There is also a range of decorative embroidery techniques available by using the CAD/CAM embroidery machine.

Equipment	Use	risk	Safe Practice
Wax Kettle and Tjanting.	Used for Batik –embellishment on fabric.	Burns Wax spilled on clothing.	Wear an apron. 2 people only to use wax kettle at any time Do not touch metal parts.
Scissors.	To cut fabric, card and paper.	Cuts, injury with sharp blades. Clothes damaged.	Concentrate, cut fabric with bottom blade resting on the table.
Pins and sewing needles.	Pins used before sewing to hold fabric firm. Needles used for hand sewing and embroidery.	Injury as they are sharp. You could sit on a pin. If in school bag, they could poke out of bag and injure someone.	Sit on a chair when sewing, concentrate. Put pins and needles back in tray at end of lesson. Transport sewing needles in a safe, hard case only if they are going home.
Iron and ironing board.	Used for pressing fabrics, ironing on gems, melting wax out of batik work.	You could drop it on your foot. Burns to yourself or work.	2 people at the iron only. No queuing. Stand iron on end when not ironing. Cover work with paper.
Dyes and printing inks.	Used to decorate fabric such as tie and dye, screen printing and adinkra.	Drip on floor – slipping hazard. Damage clothing.	Carry wet work on newspaper – dry rack Wear an overall.
Craft knife.	Used to cut card and stencils in paper.	Injury with sharp blade.	Use cutting mat. Cut away from your body. Use a safety rule.
Sewing machine and over locker.	Used to machine sew fabrics, edge trim and overlock. Sew in zips and CAD/CAM embroidery.	Injury with needle or blades.	Work alone and concentrate fully. Turn off power unless sewing. Fingers away from needle/blades.

Design		Make		Evaluate	
A clear understanding of the user's needs. An extensive range of creative and original ideas show a high level of skill. Detailed annotation shows materials, tool and processes.	- Secure +	Students have used the working properties of the materials to make high quality, well finished, fully functioning products.	- Secure +	A detailed evaluation with improvements. Thoroughly evaluated against the specification and user's needs.	- Secure +
User's needs identified. Detailed analysis of research identifying materials leading to a detailed design specification. The ideas link clearly to the specification. Ideas communicated using a range of techniques and mediums.	- Working +	Appropriate tools were us ed with a good level of skill and accuracy. Us ed tools and equipment correctly and safely. Some accuracy and quality of finish demonstrated.	- Working +	A detailed analysis showing the impact of their work on society and the environment. Students have identified where their work can be improved.	- Working +
At lease one 2D sketch showing colour. The design partly addresses the brief and, with help, can suggest the strengths and weaknesses of their idea.	- Beginning +	A mostly finished product that uses one skill with some accuracy, using tools and equipment with help.	- Beginning+	Identify one good point and say what needs to be better next time. Be able to describe s uccessful features.	- Beginning +

The design process

In DT we use a range of acronyms to help us to remember how to analyse, develop and design products. We use three at KS3 which are: CAFEQUE and SWOT used for analysing and **SATSUMA used for writing a design specification.**

C-Cost		S-Size
A-Aesthetics	S-Strength	A-Aesthetics
F- Function	W-Weakness	T-Target market
E-Ergonomics	O-Opportunity	S-Sustainability
Q-Quality	T-Threat	U-Uniqueness
U-Uniqueness		M-Materials
E-Ergonomics		A-Aids such as tools.

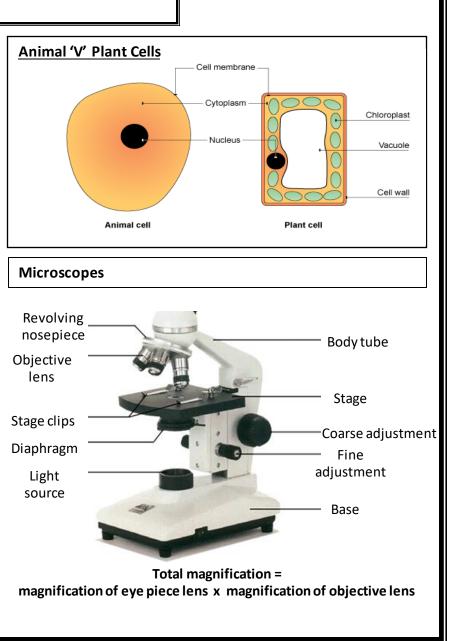
• You will create a range of products that are functional, well made and aesthetically pleasing.

- Design challenge-you will be issued with a brief which will explain what you need to do.
- You will conduct research and analyse it using CAFEQUE/SWOT.
- You will generate a range of designs and make prototypes.
- You will write a specification using SATSUMA.
- You will use a range of materials and skills to make your products.
- You will test and evaluate your products.



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.	
leafcell	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 malegenetic material.	
unicellular	Consisting of just one cell.	
vacuole	The plant cell component that contains cell sap and helps to keep the 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

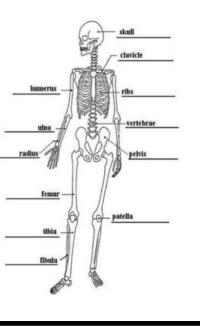
Organism – group of organ systems working together eg animal Organ system – group of organs working together eg circulatory system Organ – group of tissues working together eg heart <u>Tissue</u> – group of similar cells working together eg muscle tissue <u>Cell</u> – building blocks of life eg muscle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

2. Skeleton

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

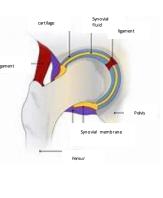
- 1. to protect organs,
- 2. to help the body move,
- 3. to support the body
- 4. to make red and white blood cells.





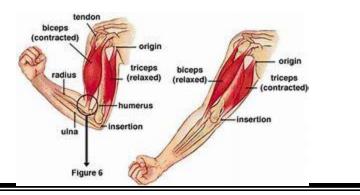
3. Movement of joints

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

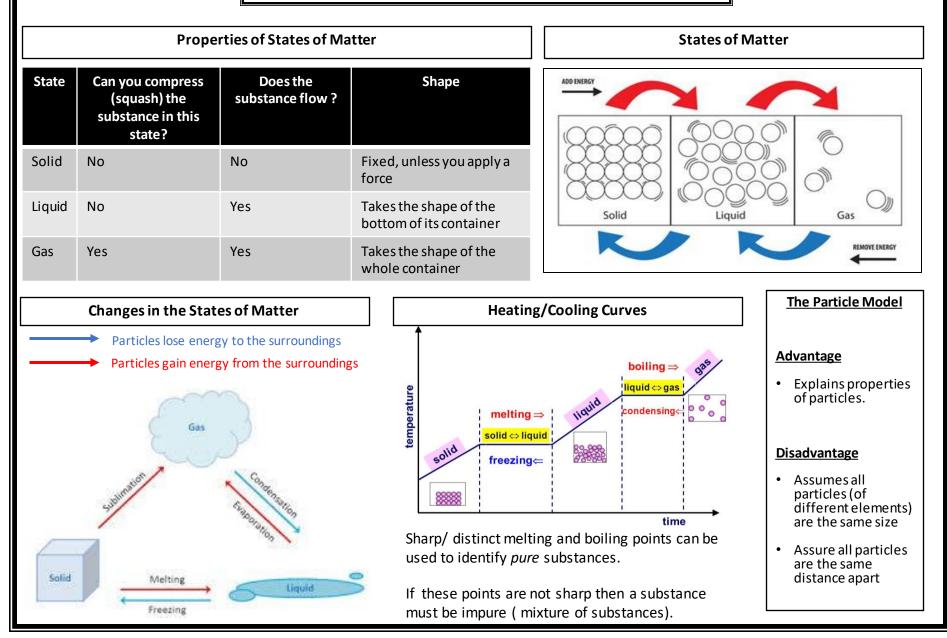
Muscles are attached to bones by tendons. When a muscle contracts it shortens and pulls on the bone. If the bone is part of a joint this will cause the bone to move. Pairs of muscles work together to control movement at a joint. They are called antagonistic muscles, this means when one muscle contracts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





KNOWLEDGE ORGANISER

CHEMISTRY: Matter





KNOWLEDGE ORGANISER CHEMISTRY: Matter

Gas Pressure Gas ONLY Gas and Liquid Diffusion The pressure created by gas particles colliding with the side of a container. The random moving and mixing of particles from a high to low concentration. Factors that affect pressure include: Factors that affect pressure include: 1. Number of particles **Experiment:** Low P **High P** Smaller volume Diffusion of a More crowded particles dye in water dye molecules More collisions with surface water molecules equilibrium Higher Gas Pressure (P) Low P High More particles Effect Factors Reason More crowded particles More collisions with surface **↑**Temperature *More* Energy for 1. Higher Gas Pressure (P) ↑ Rate of diffusion Particles. Temperature *More* Particles move faster. 2. Temperature ↑ Particle Size More heavy/big 2. Particle Size ↓ Rate of diffusion particle. Particles move slower. Liquids Gas particles are 3. State of ↓ Rate of diffusion further apart and have Particle more energy. *More* Particles move **Cooling Down** Gases Heating Up Hot gas, more and more Cool gas, fewer and less ↑ Rate of diffusion faster. energetic collision energetic collisions



KNOWLEDGE ORGANISER

PHYSICS: FORCES Speed and gravity

Keyword	Definition	Force arrows	S
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 ball
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 gra	vity) ball (due to gravity)
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 Earth pulls the ball down even though it isn't touching it. Gravity is a non-contact force. The force between magnets is
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 one that is the same size but in opposing
Mass	The amount of matter something is made of		directions.
Weight	The force that acts on a mass because of gravity		movement
Equilibrium	Equilibrium When all of the forces on something are balanced and cancel out.		
Introduction to fo	Introduction to forces		
or why they don't m	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

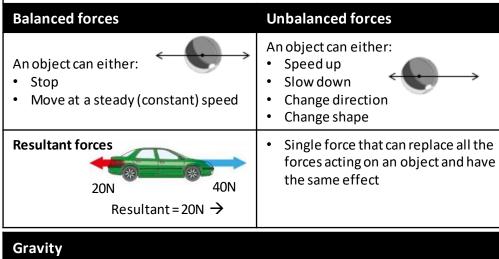
Balanced and unbalanced

Difference bet

Weight

Mass

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**.

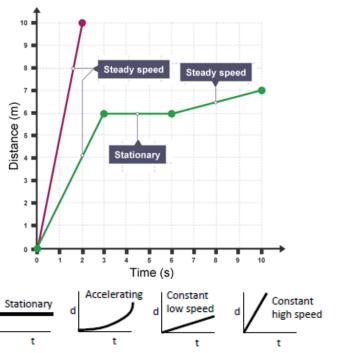


Gravity (or gravitational force) is a **non-contact force** which acts between two masses. It depends on the mass of each object and how far they are apart. On Earth the Gravitational field strength on Earth is 10 N/kg. Gravitational filed strength is different on other planets.

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.

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.

	510 WTY.		
etween weight and mass	Equations to learn		
Is the effect of gravity on an object. Measured in newtons (N). Its value differs on different planets.	Distance = speed x time	Distance – metres (m) Speed – meters per second (m/s)	
Amount of matter in an object measured in Kg. Same value on different planets.	Weight (N) = mass (kg) × gravi	Time – seconds (s) itational field strength (N/kg)	



	Knowledge Organiser Year 7	Hinduism, Buddhism and Sikhism			
		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 life on earth after they die.		
	now and 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 tormless but is the birthplac 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 trom 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	Vishnu	the Destroyer, constitutes the triad known as the Trimurti the second god in the Hindu triumvirate (or Frimurti) Vishnu is the preserver and protector of the universe		
	things.		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 moral code to live by. They reject the idea of knowledge	Shiva	One of the principal Hindu deities, worshiped as the destroyer and restorer of worlds and in numerous other forms		
Monotheism	revealed to live by . They reject the idea of knowledge 'revealed' to human beings by gods, or in special books the doctrine or belief that there is only one God	Buddhism	a religion, originated in India by Buddha (Gautama) and later spreading to China, Burma, Japan, 11bet, and part 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.	Enlightenment	the state of having knowledge or understanding		
Creationism	the beliet that God created all things out of nothing as described in the Bible and that therefore the theory of evolution is incorrect	Buddha	Buddha is the title given to Gautama Siddhartha, the religious teacher and tounder of Buddhism		
		Dalai Lama	the spiritual head of libetan Buddhism and, until the establishment of Chinese communist rule, the spiritual and temporal ruler of Tibet		
cosmological	relating to the origin and development of the universe	Sikhism	a monotheistic religion tounded in Punjab in the 15th century by Guru Nanak		
Revelation	the divine or supernatural disclosure to humans of some- thing relating to human existence	Guru Granth Sahib The sacred text of Sikhism, considered by Sikhs as the eleventh and tinal guru and as the revelation to humankind			
Evolution	e process by which different kinds of living organism	Guru Nanak			
	are believed to have developed from earlier forms during the history of the earth.	Gurus	an influential teacher		
	,				
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		
Selection	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		is important to them and they consider thin an important propriet of tarmer figure.		
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		
	is moving away from Earth.	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.		
Einstein	Albert Einstein was a German-born theoretical physicist, 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 FRG5 FL5 FZ5 was an Eng- lish naturalist, geologist and biologist, best known for his	atowardshir.	the job of supervising or taking care of something		
	contributions to the science of evolution	stewardship 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	fawa Adam and Eve (Hawa in Islam) are the Bible's tirst man and tirst woman. Adam's name appears tirst in Genesis 1 with a collective sense, as "mankind"		

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

		Key words	1		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.		Stewardship	A good example of stewardship is a steward at a sports match/concert- the look after the people on behalf of
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.		Dominion	the company; we look after God's creation on his behalf. 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).	1		Some say to do as we see fit but this is often tied to stewardship and therefore requires an element of com- passion. Stewardship is about being responsible for the
4	Intrinsic worth	Having value in itself, not due to usefulness.			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.	1		about humans.
7	Ahimsa	The concept of 'non-violence' within the Vedic religions e.g. Hinduism and Buddhism.	4	Green Chris- tions	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.		Tiuns	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	un .

	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 free from suffering 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.	

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

	1	
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	I like
39	j'adore	I 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	l live
47	anniversaire	birthday
48	ans	years
49	il y a	there is / are
50	il n'y a pas de	there is not

What is your name? Comment tu t'appelles? [komoh too ta-pell]		
My name is Anne	je m'appelle Anne	
Your name is Kiran	tu t'appelles Kiran	
His name is Omar Her name is Ayesha	il s'appelle Omar elle s'appelle Ayesha	
Their names are Sam and Ali Their names are Zaara and Emilie My parent's names are Charles and Sophie	ils s'appellent Sam et Ali elles s'appellent Zaara et Emilie mes parents s'appellent Charles et Sophie	

How is that sp		Comment ça s'écrit ?				
[How the letter is pronounced] [komoh sa sekree]						
A [<i>ah</i>]	B [<i>bay</i>]	C [<i>say</i>]	D [<i>day</i>]			
E [<i>euh</i>]	F [<i>eff</i>]	G [jhay]	H [<i>ash</i>]			
I [ee]	J [jhee]	K [<i>kah</i>]	L [<i>ell</i>]			
M [<i>emm</i>]	N [<i>enn</i>]	0 [<i>oh</i>]	P [<i>pay</i>]			
Q [<i>koo</i>]	R [<i>air</i>]	S [<i>ess</i>]	T [<i>tay</i>]			
U [<i>oo</i>]	V [<i>vay</i>]	W [doobl-vay]	X [eeks]			
Y [eegrek]	Z [<i>zed</i>]	é [<i>euh aksohn</i>	è [<i>euh</i>			
		eggoo]	aksohn			
			graav]			

0

When is your birthday?	Quelle est la date	de ton anniversa	aire? [kell ay la da	at duh ton a-nee-	•vur-sayr]		
and highlades in the		first	premier	_	·	In Class	En Classe
my birthday is on the	mon anniversaire est le	2 nd	deux	January	janvier	I would like	je voudrais
		3rd	trois quatre	February	février	can I have?	est-ce que je peux
		4th 5th	cinq	Tebruary			avoir?
		6th	six	March	mars	I don't have	je n'ai pas de
his birthday is on the	son anniversaire est le	7th	sept			I have forgotten?	j'ai oublié
		8th	huit	April	avril	please	s'il vous plait
		9th	neuf			•	•
		10th	dix	Мау	mai	thank you	merci
		11th	onze			a pen	un stylo
		12th	douze	June	juin	a ruler	une règle
		13th	treize	1.1.1.7	juillet	a pencil	un crayon
i 1		14th	quatorze	July	Junier	an exercise book	un cahier
		15th	quinze	August	août	a text book	un livre
		16th 17th	seize dix-sept	August		a glue stick	un bâton de colle
		18th	dix-huit	September	septembre	some scissors	des ciseaux
		19th	dix-neuf				
The Days of the Week	Les jours de la semaine	20th	vingt	October	octobre	listen	écoutez
The Days of the week	Les jours de la semaine	21st	vingt et un			look	regardez
Monday	lundi	22nd	vingt-deux	November	novembre	work in pairs	travaillez a deux
Tuesday	mardi	23rd	vingt-trois	Describe	décembre	open your books	ouvrez vos cahiers
Wednesday	mercredi	24th	vingt-quatre	December	decembre	close your books	fermez vos cahiers
Thursday	jeudi	25th	vingt-cinq			homework	les devoirs
Friday	vendredi	26th	Vingt-six				
Saturday	samedi	27th	vingt-sept				D
Sunday	dimanche	28th 29th	vingt-huit vingt-neuf				
		30th	trente				0
		31st	trente et un				
		5150	ci circe ce dil				

French

l'm	really good, thanks	ça va très bien, merci
I'n	n good, thanks	ça va bien merci
ok	(like this,like that)	comme ci, comme ça
ok	, not bad !	bof, pas mal!
no	, I'm not good	non, ça ne va pas
I'n	n bad	ça va mal
he	llo! hi!	bonjour ! salut !

Les couleurs	masculine	feminine	masculine plural	feminine plural
blue	bleu	bleue	bleus	bleues
black	noir	noire	noirs	noires
green	vert	verte	verts	vertes
red	rouge	rouge	rouges	rouges
yellow	jaune	jaune	jaunes	jaunes
pink	rose	rose	roses	roses
purple	violet	violette	violets	violettes
white	blanc	blanche	blancs	blanches

How old are you ? Tu as quel âge	2?		
I am 11 (<u>I have</u> 11 years)	j'ai onze ans	She is 13 (<u>she has</u> 13 years)	elle a treize ans
I am 12 (<u>I have</u> twelve years)	j'ai douze ans	We are 14 (We have 14 years)	nous avons quatorze ans

Where do you live ? Où habites-tu ?						
I live in Leicester in England	j'habite à Leicester en Angleterre	we live in Montréal in Canada	nous habitons à Montréal au Canada			
			<u>or</u> on habite à Montréal au Canada			
I live in Paris in France	j'habite à Paris en France.	Luc lives in Dakar in Senegal in Africa	Luc habite à Dakar au Sénégal en Afrique			

What is your na	tionality ? Tu es de quelle nationalité ?		
I am English	je suis anglais/ je suis anglaise	I am English but my family are	Je suis anglaise mais ma famille est
I am French	je suis français / je suis française	of Polish origin	d'origine polonaise
I am German	je suis allemand / je suis allemande		
I am Indian	je suis indien / je suis indienne		
I am Africain	je suis africain / je suis africaine	8_	
What language	do you speak ? Tu parles quelle	c languag 2	
I speak English			
I speak English	and Gujarati. Je parle anglais	et gujarati.	

What do you like ?	Qu'est-ce que	tu aimes ?					
I love	J'adore	maths	les maths	because it is	parce que c'est	fun	amusant
I like	J'aime	shopping	le shopping	because it is	car c'est	great	génial
I prefer	Je préfère	animals	les animaux			boring	ennuyeux
I don't like	Je n'aime pas	sport	le sport			deadly boring	barbant
I hate	Je déteste	sweets	les bonbons			interesting	intéressant
		music	la musique			exciting	passionnant

but = mais	and = et	however = cependant	in my opinion = à mon avis	I think that = Je pense que
-------------------	-----------------	----------------------------	-----------------------------------	------------------------------------

All About Me Knowledge Organiser (Year 7)

What is your name? ¿Cómo te llamas?	
My name is Ana	Me Ilamo Ana
Your name is Kiran	Te llamas Kiran
His/her name is Sam	Se llama Sam
Their names are/ my parents' names are Tom and María	Se llaman/ mis padres se llaman Tom y María

How is that spelt ? ¿Cómo se escribe? (How this letter is pronounced)						
A (ah)	B (beh)	C (seh)/(theh)	D (deh)			
E (eh)	F (efeh)	G (hey)	H (acheh)			
I (ee)	J (hota)	K (kah)	L (eleh)			
LL (elyeh)	M (emeh)	N (eneh)	Ñ (enyay)			
O(oh)	P (peh)	Q (coo)	R (ereh)			
S (eseh)	⊤ (teh)	U (oo)	V (oobeh)			
W(oobeh-	X (ekees)	Y	Z (seta)/			
dobleh)		(eegreeaygah)	(theta)			

When is your birthday?	When is your birthday? iCuándo es tu cumpleaños?						
		first	primero/ uno	January	enero	In Class	En clase
My birthday is on the Mi c	cumpleaños es el	2nd	dos			I would like	Me gustaría
		3rd	tres	February	febrero	Do you have?	¿Tienes ?
		4th	cuatro			I don't have	No tengo
		5th 6th	cinco seis	March		I have forgotten	He olvidado
		7th	siete	March	marzo	please	por favor
6 6 9 5	٨	8th	ocho	April	abril	thank you	gracias
I Q I Q	Y	9th	nueve			/	un boli(grafo)
		10th	diez			a pen	
		11th	once	May	mayo	a ruler	una regla
		12th	doce	,		a pencil	un lápiz
		13th	trece	June	junio	an exercise book	un cuaderno
		14th	catorce			a text book	un libro
		15th	quince	7	india.	a glue stick	un pegamento
		16th 17th	dieciséis diecisiete	July	julio	some scissors	unas tijeras
		18th	dieciocho	August	agosto	listen	escuchar
		19th	diecinueve	, laguet	ugooto	look	mirar
The days of the week Los día	as de la semana	20th	veinte			work in pairs	trabajar en parejas
		21st	veintiuno	September	septiembre	open your books	abrir los cuadernos
Monday lune:	s	22nd	veintidós			· ·	
Tuesday mart		23rd	veintitrés	October	octubre	close your books	cerrar los cuadernos
,	coles	24th	veinticuatro			homework	los deberes
Thursday jueve	es	25th	veinticinco			потпежогк	los deberes
Friday vierr		26th	veintiséis	November	noviembre		
Saturday sába		27th	veintisiete	Describe	at a second second		
Sunday domi	ingo	28th	veintiocho	December	diciembre		
		29th	veintinueve				
		30th	treinta				
		31st	treinta y uno				

Spanish

How are you?	¿Cómo estás?
I'm really good thanks	Estoy muy bien gracias
I'm good thanks	Estoy bien gracias
Ok (so-so)	Regular/ así así
Ok not bad	No estoy mal
I'm not good	No estoy bien
I'm bad	Estoy mal
Hello!	iHola! iBuenos días!

Colours Los colores (masculine/feminine/masculine plural/feminine plural)			
(masculine/reminine,			
red	roj <u>o</u> /roj <u>a</u> /roj <u>as</u>		
black	negr <u>o/negra/negros/negras</u>		
white	blanc <u>o</u> /blanc <u>a</u> /blanc <u>os</u> /blanc <u>as</u>	10	
green	verd <u>e</u> /verd <u>es</u> /verd <u>es</u>		
blue	azu <u>l</u> /azu <u>les</u> /azu <u>les</u>		
yellow	amarill <u>o</u> /amarill <u>a</u> /amarill <u>os</u> /amarill <u>as</u>		
pink	ros <u>a</u> /ros <u>a</u> /ros <u>a</u>		
orange	naranja/ naranja/ naranja/ naranja		

How old are you ? ¿Cuántos años tienes?			
I am 11 (I have 11 years)	Tengo once años	She is 13 (she has 13 years)	Tiene trece años
I am 12 (I have twelve years)	Tengo doce años	We are 14 (We have 14 years)	Tenemos catorce años

Where do you live ? ¿Dónde vives?					
I live in leicester in England. Vivo en Leicester en Inglaterra.		We live in Lima in Peru.	Vivimos en Lima en Perú.		
I live in Madrid in Spain.	Vivo en Madrid en España.	Carlos lives in Bogotá in Colombia.	Carlos vive en Bogotá en Colombia.		

What is your nationality ? ¿Cuál es tu	Nhat is your nationality ? ¿Cuál es tu nacionalidad?				
I am English	Soy inglés/ inglesa	I am English but my family are from	Soy inglesa pero mi familia es de		
I am Spanish	Soy español/ española	Polish origin.	origen polaco.		
I am German	Soy alemán/ alemana				
I am Indian	Soy indio/ india				
I am African	Soy africano/ africana				

What do you like ?	¿Qué te g	usta?						
I love	Me encanta(n)	Spanish	el español		use it is	porque es	fun	divertido/a/os/as
I like	Me gusta(n)	the cinema	el cine	-	se they are	porque son	great	genial/es
I prefer	Prefiero	animals	los animale	1			boring	aburrido/a/os/as
I don't like	No me gusta(n)	sport	el deporte 🦂				terrible	terrible/s
I hate	Detesto / odio	sweets	los caramelos				interesting	interesante/s
		music	la música				exciting	emocionante/s
What languages do you speak 2								

What languages do you speak ?	¿Qué lenguas hablas?
I speak English and Spanish.	Hablo inglés y español.
I speak English and Gujarati.	Hablo inglés y gujarati.

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	EFS: 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		A TANK
Anglo-Saxon earl and warrior, he	Battle of Stamford Bridge	and and a second s
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	he had archers, foot soldiers and knights
Harold Godwinson had also	25/9/1066	ready to attack
promised to support him		Leadership – William used clever tactics
4. Harald Hardraada, King of Norway –	The Vikings were defeated after several	such as the 'fake retreat' during the battle
fearsome Viking warrior who was	hours of fighting and Harald Hardraada	which tricked the Saxons into breaking
already a king, he had experience of	was killed but Godwinson was now told	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		

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. 	 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 Advantages for women 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
 Both monks and nuns provided charity to those in need. <u>Importance of religion</u> 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 	together she can escape punishment by claiming she was just obeying her husband

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 rainf

- Convectional rainfall
- Relief rainfall
- Frontal rainfall



Frontal rainfall

Average annual rainfall

Knowledge Organiser

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

warm, wet summers. The

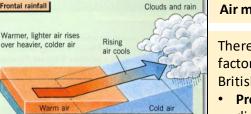
cool, wet winters and

very changeable.

weather conditions are also

Prevailing wind: the dominant direction from where the wind blows

Air mass: a large body of air with similar characteristics

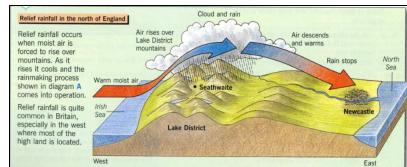


Norwich

650mm

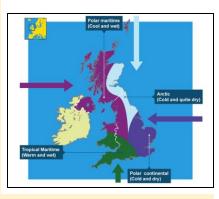
nverness 730mm

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.



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



- 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

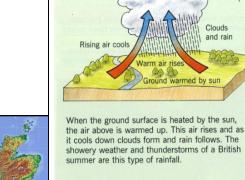
largest), Scotland, Wales and Northern

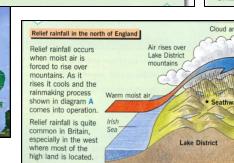
Mountainous (upland) areas tend to be in the north and west of the UK. Low lying (lowland) areas tend to be in the south east of the UK.

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.





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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.

			the bar and a section of the section
Factors leading to densely populated areas	Factors leading to sparsely populated areas	A B	
Flat or gently sloping land	Steep slopes		1 martin
Mild climate	Harsh climate – very hot or very cold	ulation den > 5,000 250 - 1,0	Uty (people per km²)
Good (fertile) soils	Dense forests		
Lots of job opportunities	Few job opportunities		Push factors
Lots of resources e.g. coal and oil	Lack of resources		Lack of services
Water	Dry conditions (lack of 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.

Miaration

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

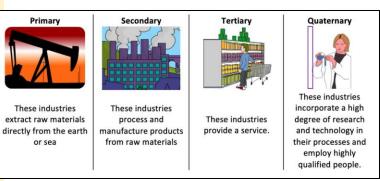
Leicester

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.

Pull factors

Higheremployment

Lower risk of natural

Better services

Safe society

Less crime

Fertile land

hazards

Good climate

More wealth

Political stability

Overcrowding and conflict between locals and tourists.

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.

Geography

<u>Key words:</u>

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.

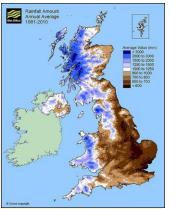
How do we measure the weather?

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 does weather and climate affect our lives?

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.

Knowledge Organiser

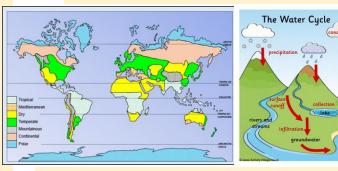
What are the main features of the major biomes?

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.

Geography

How does weather and climate affect our lives?

Knowledge Organiser

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.

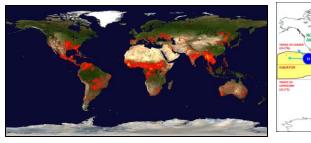
Drought in the Horn of Africa

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?

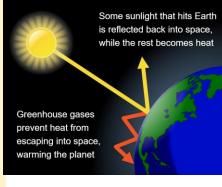
Tropical storms are powerful low pressure systems which create heavy rainfall of 25cm a day and very strong winds of 120km/hr

- 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

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.

AREA 0 0 0

