

Knowledge Organisers 1st Summer Term

Science

History

Geography

Art

PSHE

Latin

Computing

R.E.

P.E.

Swimming

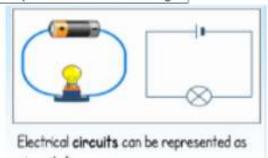
Music

Year 4

Knowledge Organiser - Science - Year 4 - Electricity

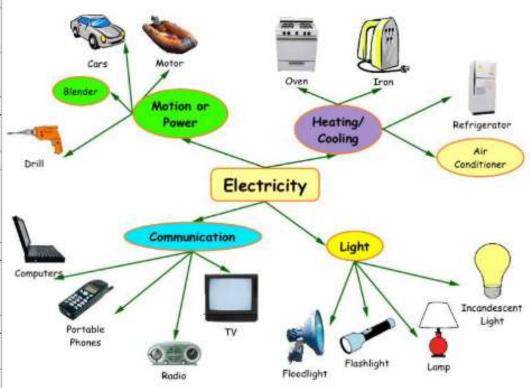
Key Vocabulary	Definition	
electricity energy made available by the flow of electric charge conductor		
conductor	a substance that allows heat or electricity to pass through or along	
insulator	a substance that does not allow heat or electricity to pass through or along	
component	a part that can be separated from or attached to a system	
circuit	an electrical device that provides a path for electrical current to flow	
current	a flow of electricity through a wire or circuit	
static electricity	static electricity is the build up of an electrical charge on the surface of an object. It's called "static" because the charges remain in one area rather than moving or "flowing" to anoth area like an electrical current.	
electron	an elementary particle with negative charge	
appliance	a device or machine often in your home that you use to do a job such as cleaning or cooking - appliances are often electrical	
negative charge	having a surplus of electrons; having a lower electric potential	
positive charge	having a deficiency of electrons; having a higher electric potential	
electromagnet	a magnet which attracts metals only when electrically activated	
atom	the smallest, indivisible constituent part or unit of something.	

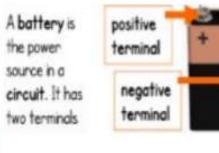
	Key Knowledge
	I know the main uses of electricity.
	know the components and symbols of a basic electrical circuit.
1	understand the difference between a current and static electricity.
1	understand the importance of conductors and insulators.
	I know what an electromagnet is.

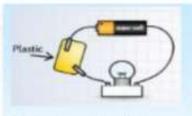


circuit diagrams.

Uses Of Electricity In Our Daily Life







Plastic does not conduct electricity. We use plastic as an electrical insulator. Can you think of other materials that are electrical insulators.

Knowledge Organiser - History - Year 4 - Early Stuarts, Gunpowder and Civil War.

Key Vocabulary:	
Divine right of kings	The belief that kings are chosen by God and therefore should have all the power.
Plot	A secret plan made by a group of people to do something illegal or harmful.
The Gunpowder Plot	A plot, led by Robert Catesby, to blow up the Houses of Parliament on the 5 th November.
Union of the crowns	When King James VI of Scotland became King James I of England, this united the two kingdoms under one crown.
Monteagle letter	The letter received from Lord Monteagle from Francis Tresham, warning him of the Gunpowder Plot. The letter was given to James I who was able to capture Guy Fawkes.
Treason	A crime where a person betrays their country. This includes trying to kill their king.

Union of the crowns		When King James VI of Scotland becar England, this united the two kingdom	
Monte lette		The letter received from Lord Monteag warning him of the Gunpowder Plot. James I who was able to capture Gu	The letter was giv
Treas	on	A crime where a person betrays their trying to kill their king.	country. This incl
		Key people	
James I	Engla was	es I was the King of and (and Scotland). He a Protestant and believed se' divine right of kings'.	
Robert Catesby	400000000000000000000000000000000000000	vas the leader of the powder Plot.	James I become
Francis	He w	vrote a letter to his friend	1603

telling him not to go to

He was a soldier and one of

the plotters. He planned to

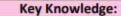
Parliament and was caught.

blow up the Houses of

parliament.

Tresham

Guy Fawkes



I know the James I believed in the divine right of kings and didn't treat Catholics well.

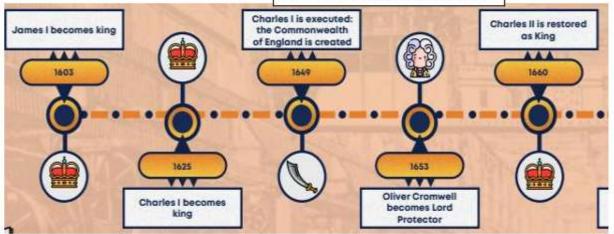
I know that James I was unpopular with lots of people at the time.

I know that there was a plot to blow up the Houses of Parliament, known as the Gunpowder plot, led by Robert Catesby

I know that the plot was discovered when a letter was shown to the king, and Guy Fawkes was discovered with 36 barrels of Gunpowder



Houses of Parliament, London



Knowledge Organiser - The South West - Geography - Year 4

Key Vocabulary	Definition	
constline	The line of the coast, where the land meets the sea	
The Gulf Stream	A current of warm water that moves across the Atlantic Ocean before reaching the South West of England	
county	England is split up into areas called counties, these areas have their own councils who make decisions about local issues	
arable land	Land used for growing crops for farming	
pastoral land	Land used for raising animals for farming	
Area of Outstanding Natural Beauty	A special area of land that is protected because of its beauty and importance	
moor	A large area of land where no crops are grown, often covered in heather	
tourism	When people travel to an area for a holiday	

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Landmark	Image	
Stonehenge	MINISTER L	
Glastonbury Tor		
Tintagel Castle	5	
The Eden Project		

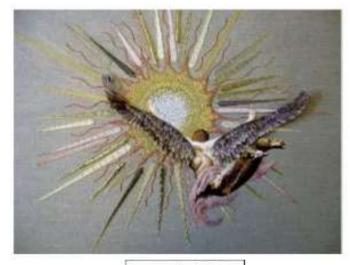
Key Knowledge

- I understand that the coastline of the South West has been changed by erosion.
 - I know where the main cities/ towns are in the South West.
 - I understand that tourism is a major industry in the South West.
- I understand that dairy farming is an important industry in the South West.

Knowledge Organiser - Design - Visual Arts - Year Four

Key Vocabulary	Definition	
embroidery	The art of decorating cloth with stitches	
Cross-stitch	Two diagonal stitches making up one stitch in the shape of an X	
tapestry	A woven artwork made of wool	
warp	Threads held tightly on a loom ready for the weft to pass over and under	
weft Coloured woollen threads that are passe out when weaving a tapestry		
loom	A device to weave cloth and tapestry	
motif A pattern or image that is often repeated		
applique When fabric is cut out and sewn onto a lar piece of fabric to create a picture or patte		

	Key Knowledge		
ı	know what cross-stitch is		
	I know what motifs and symbols are.		
١	know what a tapestry us.		
	I know how to weave.		



Icarus by Kate Farrer 2012



Kate Middleton's Wedding Dress



Queen Elizabeth I coronation dress



A loom with warp and weft



Christ's Charge to Peter. Tapestry from original cartoon by Raphael



jigsan;









Knowledge Organiser - PSHE - Relationships - Year Four

Key Vocabulary	
Relationship	The way in which two people, groups or countries behave towards each other or deal with each other.
Distant	Not having a close relationship with somebody.
Belonging	The feeling of being comfortable and happy in a particular situation or with a particular group of people.
Loss	The death of a person or something special.
Sadness	The feeling of being sad.
Memorial	A thing that will continue to remind people of somebody/something.
Vegetarian	A person who does not eat meat or fish.
Debate	A formal discussion of an issue at a public meeting or in a parliament. In a debate two or more speakers express opposite views and then there is often a vote on the issue.

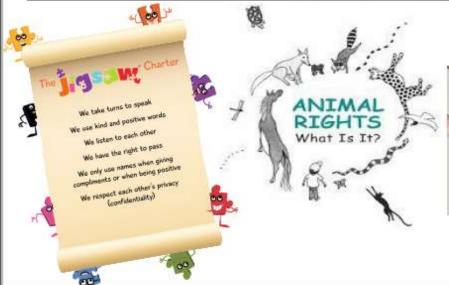
Key Knowledge

I can identify the web of relationships that I am part of, starting from those closest to me and including those more distant.

I can explain different points of view on an animal rights issue.

I know how to show love and appreciation to the people and animals who are special to me.







Reflective questions

Ask me this...

Who in your family and friends are special to you?

What feelings might people experience when they lose someone close to them?

What are your opinions on being a vegetarian?

Latin Knowledge Organiser - Unit 5: Romans and Britons

Key Vocabulary		
Latin	English	
ludunt	They play	
sedent	They sit	
equitāmus	They ride	
colimus	They farm	
pugnamus	They fight	
ferōciter	fiercely	
dīligenter	carefully	
celeriter	quickly	
et	and	
tesserae	mosaics	
ita vērō	yes	
dīrēctae	straight	
commodae	comfortable	
nōbīscum	with us	
viae	roads	
villae	houses	

Grammar

Words we use to talk about actions are called verbs, e.g. Candidus is fighting.

Words we use to add more information to a verb are called 'adverbs'. For example, celeriter equito - I ride quickly.

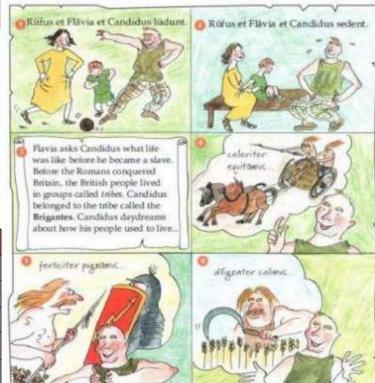
Adverbs in Latin often (but not always) end in -er.

UnitMotto non dūcor dūcō = I am not led, I lead



Britons are best!

Rufus, Flavia and Candidus are kicking a ball. They sit down for a rest and begin to talk...



Key Knowledge

To recap prior learning of masculine and feminine verb endings.

To translate simple sentences with verbs and adverbs.

To complete sentences by selecting the appropriate adverb.

To translate sentences with simple plural forms.

To compare and contrast traditional tales from different cultures.

Knowledge Organiser- Repetition in Shapes - Computing - Year 4

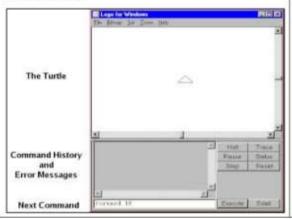
Key Vocabulary	Definition	
Program	the entire solution to the task, and an implementation of the algorithm as code	
Turtle	an arrow or turtle image on screen that draws a line as it is programmed	
Command	an instruction given to control a program	
Code Snippet	this could be the same as a program; it can have several sets of commands in one program	
Algorithm	the part of the design of the program that is precise instructions to be implemented as code	
Debug	the process of finding and correcting errors in your code	
Decompose break something down into smaller parts		
Procedure a named code snippet that can be run multiple times.		

The Basics of FMS Logo

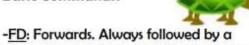
- -What is FMS Logo? Logo is a text-based programming language, where we can type commands which are then drawn on the screen.
- -Logo helps us to learn how to use programming language, whilst also being creative and using problem-solving skills.

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CAN		R
S. GATTERNA S. Spill Spill (1	100

The Display:



Basic Commands:



- -<u>FD</u>: Forwards. Always followed by a space and the number of steps, e.g. FD 50
- -BK: Backwards. As above, e.g. BK 50
- -LT: Left turn. Always followed by a space and then the degrees to turn, e.g. LT 90
- -RT: Right turn. As above, e.g. RT 90
- -CS: Clears any pen marks on your screen and gets the turtle back to the centre.
- -PU: Stops turtle from leaving a pen trail.
- -PD: Makes turtle leave a pen trail again.

Key Knowledge

To identify that accuracy in programming is important

To create a program in a text-based language.

To be able to explain what 'repeat' means

To modify a count-controlled loop to produce a given outcome.

To decompose a task into small steps

To create a program that uses count-controlled loops to produce a given outcome.

Sequencing and Algorithms

- -A sequence is a pattern or process in which one thing follows another.
- -We design **algorithms** (sets of instructions for performing a task) to help us program the sequence that we require to achieve our desired outcomes.
- -Programming is the process of

keying in the code recognized by the computer (using your algorithm).

Trialling and Debugging

- -Programmers do not put their computer programs straight to work.
- They **trial** them first to find any errors:
- -Sequence errors: An instruction in the sequence is wrong or in the wrong place.
- -Keying errors: Typing in the wrong code.
 -Logical errors: Mistakes in plan/thinking.
- -If your algorithm does not work correctly the first time, remember to **debug** it.

Programming Patterns

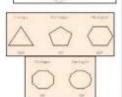
- -Patterns: Patterns are things that repeat in a logical way. In everyday life, patterns are everywhere!
- -Patterns in Logo: Instead of typing in the code to create each individual shape, we can save time by repeating a sequence of instructions. We use the 'repeat' function.
- -Repeat: Type the command 'repeat' this repeats commands a set number of times. The number following repeat is the number of times to repeat the code, and the code to be repeated is in square brackets, e.g. repeat 4 [FD 100 LT 90]

The above code will repeat FD 100 LT 90 four times.

-Creating Shapes and Loops: To make shapes, we need to know the angles of corners of different shapes (see right). Using the repeat function with shapes can help us to make spirals.









Knowledge Organiser - PE - Dodgeball - Year Four

Key Vocabulary	Definition	
Agility	The ability to change direction quickly	
Caught Out	When a player catches an opponent's ball deeming them out	
Hit Out	When a player in dodgeball is hit below the shoulders by a live ball	
Communicate	Share information	
Tactic	To make a plan or strategy	

Skill Development		
Dodge	 Stay towards the back of the court. Be aware of your opponents who are holding a ball Get ready to move quickly away from the ball that is being throw Jump, Duck or Dive to avoid being hit out. 	
Throwing	 When throwing, you should position yourself close to the line separating the two teams this gives you the best chance of hitting an opposition player. Stand side on whilst pulling your throwing arm back. Outstretch your non-throwing arm towards your target. Push forward with your throwing arm and release the ball while shifting your weight onto your front leg. Tip – Aim to throw the ball towards the lower part of your opponents body as this makes it harder for them to dodge 	

	Skills
Dodge	
Throw	
Catch	

R.E. Year 4 Summer 1 Knowledge Organiser What motivates Humanists to lead good lives?

Key vocabulary	Definition
Humanism	A non-religious worldview that approaches life by learning from their own or other experiences in order to inform their decisions and others.
Choices	Deciding between two or more possibilities and having the freedom to make this choice.
Golden Rule	A belief Humanists life by, to treat others as you would like them to treat you.
Global Warming	Increase in Earth's temperature caused by the carbon dioxide we give of as humans and the things we do.
Evolution	The process by which living things gradually change over time.
Big Bang Theory	The idea that the universe began as just a single point, then expanded and stretched to grow as large as it is now.

Key Knowledge	
l can discuss	what is a 'good' life.
I know the ru	les a Humanist might choose to live by to live a 'good' life.
l know what	a Humanist might believe about how the world began.
l can discuss	what actions a Humanist may take to live a 'good' life.
I can talk abo	out what would motivate me to lead a better life.

Core Knowledge:

Humanists value freedom, empathy, reason, and human rights. Humanists believe there is no evidence of God, and science gives many answers to things previously attributed to Gods. They believe we have one life, and therefore need to make the best of it. This includes treating humans and other living things ethically, fairly, and positively. It is important to also take personal responsibility for our actions and believe that we have the potential to create great things which will benefit humanity and future generations.





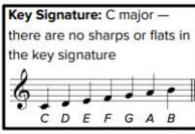


KNOWLEDGE ORGANISER MUSIC

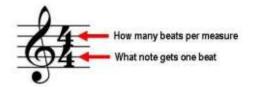
EXPRESSION AND IMPROVISATION

YEAR 4 UNIT 5

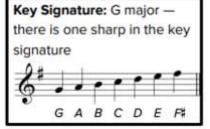
Key Vocabulary	Definition
Time signature	The rhythm following a clef
Key signature	The key of a piece of music depends on the flats and sharps in the music.
Minim	
Crotchet	
Dotted crotchet	<u></u>
Quaver) J
Accompaniment	Music composed to support another musician (piano/band)
Dynamics	ff, pp, mp, mf, p, f
Gospel	Traditional Christian music
Orchestral	An ensemble of instruments

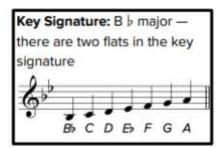






Time Signature: 4/4 — there are four crotchet beats in a bar





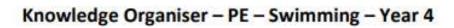
Songs covered

- · Train is A-Comin'
- Oh happy days
- A world full of sound











Key Vocabulary	Definition	
Sculling	Using quick movements of the hands to keep the head above the water. Sculling can be done head or feet first.	
Treading Water	A survival technique used to keep the head above the water.	
Submerge	The act of going under the water.	

Skill development	
Swim competently, co	onfidently and proficiently over a distance of at least 25m.
Use a range of stroke breaststroke.	s effectively (for example, front crawl, backstroke and
Perform safe self-reso	cue in different water-based situations.

Skills	
Breaststroke legs	
Treading water	
Breathing when swimming	