

Knowledge Organisers

2nd Autumn Term

Science

Geography

History

Art/DT

Latin

PSHE

Music

P.E

R.E

Year 5

Knowledge Organiser – Science – Chemistry – Y5

Key Vocabulary:

Evaporation	The process of changing a liquid into a gas.
Condensation	The process of change from a gas into a liquid.
Dissolve	When a solid becomes part of a liquid.
Filter	To separate fine solid particles from a liquid.
Solution	A liquid that has a solid dissolved in it.
Soluble	When a solid dissolves in water it is said to be soluble.
Insoluble	When a solid will not dissolve.
State	All matter exists in one of these three states: solid, liquid, gas.
Atom	A piece of matter, made up of subatomic particles: protons, neutrons and electrons.
Proton	In the centre of an atom and they have a positive charge.
Neutron	In the centre of an atom and they have a negative charge.
Electron	Orbiting the atom and they have a negative charge.

The meaning of the symbols

Periodic Table of the Elements

K Potassium Fruits and Vegetables	Ca Calcium Shells and Bones	Sc Scandium Bicycles	Ti Titanium Aerospace	V Vanadium Springs
Rb Rubidium Global Navigation	Sr Strontium Fireworks	Y Yttrium Lasers	Zr Zirconium Chemical Pipelines	Nb Niobium Mag Lev Trains
Cs Cesium Atomic Clocks	Ba Barium X-Ray Diagnosis	71 Rare Earth Metals	Hf Hafnium Nuclear Submarines	Ta Tantalum Mobile Phones

Key Knowledge:

- I know some elements and their symbols.
- I understand the size of an atom and how it cannot be seen with the naked eye.
- I understand the structure of an atom.
- I can explain my knowledge of atoms and the elements that they create.
- I can design a fair test and make predictions about a solution.

(Atomic number)
The number of protons
Must contain 2 electrons

2

He

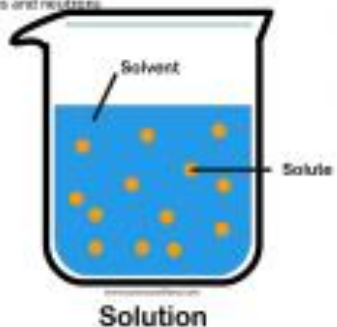
Symbol for the element

Helium

4.0026

Name of element



(Atomic mass) Protons and neutrons
added together



Parts of an Atom

- NEUTRON**
no charge
part of the nucleus
- PROTON**
positively charged
part of the nucleus
- ELECTRON**
negatively charged
around the nucleus

Knowledge Organiser- Mountains - Geography - Year 5

Key Vocabulary	Definition
peak	The top of the mountain.
range	A group of mountains.
Edmund Hillary 	A well-known mountaineer from New Zealand who was one of the first to climb Mount Everest in 1953.
Tenzing Norgay 	Edmund Hillary's mountaineer guide who also climbed Mount Everest in 1953.
The Andes	A mountain range in South America that stretches from the southern tip of the continent to the Caribbean coast.
Machu Picchu	A famous Inca city built on top of a mountain in the Andes.
Mount Kilimanjaro	The tallest mountain in Africa.
erosion	The process of something being worn down or destroyed over time.

Key Knowledge:

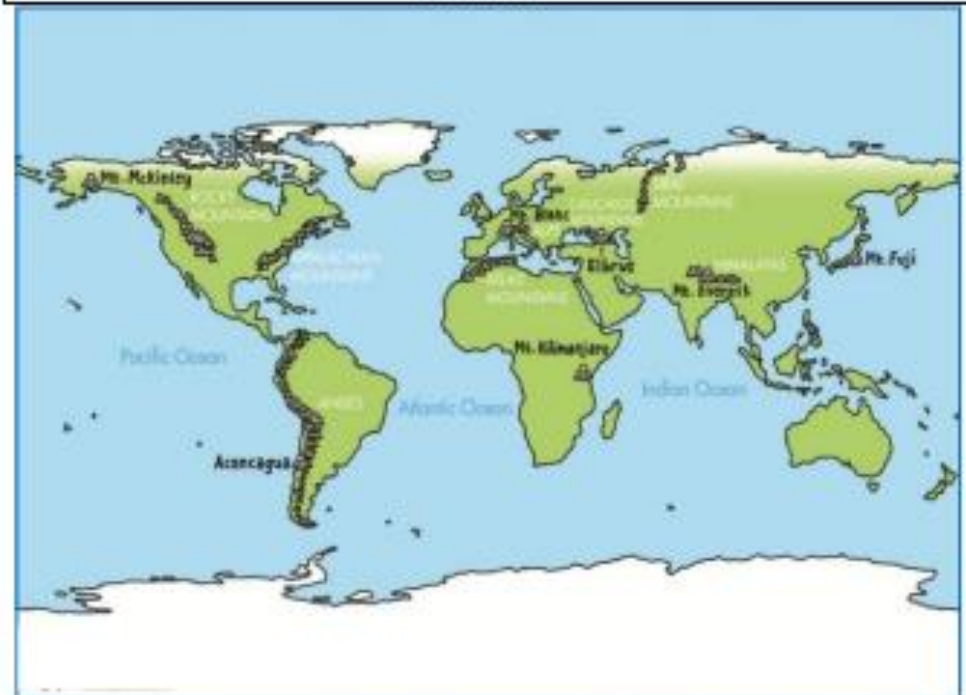
I know what a mountain is.

I understand the key features of the Alps.

I understand what it might be like to climb the Himalayas.

I know the key features of American mountain ranges.

I know the key features of African mountains and how these are different.



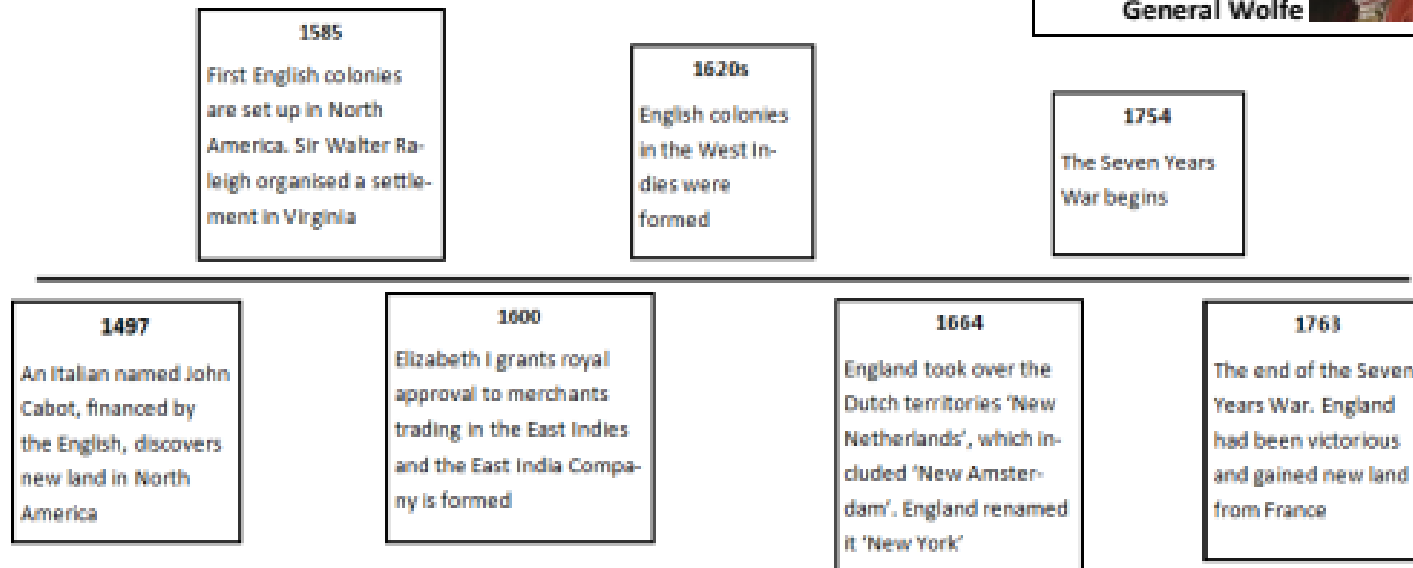
The Alps in France	The Himalayas	Machu Picchu	Blue Ridge Mountains	Rocky Mountains in Colorado	Mount Kilimanjaro
					

Knowledge Organiser: The Birth of the British Empire – History - Year 5

Key vocabulary	Definition
Empire	An empire is a group of countries ruled over by a single monarch or ruler
Imperial	Belonging or relating to an empire
Trade	Buying, selling or exchanging goods between people, companies or countries
Colony	A country or area controlled by another country that is often far away
Slave	A person who is owned by another person and has to obey them
Merchant	A person involved in trading goods

Key people	
 John Cabot	An Italian explorer, funded by England, who 'discovered' lands in North America
 Sir Walter Raleigh	Founded a colony in Virginia
 Major-General Robert Clive	A military commander who helped secure an Indian empire for Britain
 Elizabeth I	Queen of England 1508-1603. She gave royal approval to the East India Company
 General Wolfe	He led Britain to victory at the Battle of Quebec

Timeline



Key Knowledge:

I know that Britain had an empire.
I understand the origins of the British Empire in global trade.
I understand why and how British control spread through India after 1750.
I understand why the victories of the Seven Years War led to patriotism in Britain.
I can use my learning to understand why Britain wanted an empire and how it wanted to project a powerful image around the world.

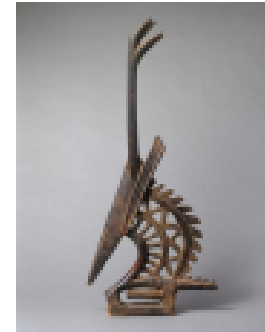
Knowledge Organiser – African Art - Visual Arts – Year Five

Key Vocabulary:

peoples	Members of a particular nation or community.
ceremony	A social or religious occasion often celebrating a particular event.
Bamana peoples	A group of peoples living mainly in Mali, Western Africa.
headdress	A covering for the head, especially worn in ceremonies.
Edo peoples	A group of peoples living mainly in southern Nigeria.
Benin City	A city in southern Nigeria, West Africa. Benin City flourished from the 14th-17th centuries as the centre of the Benin Kingdom.
plaque	A flat, decorated slab, often square or rectangle that is fixed, to a wall or other surface and remembers an event or a person.
relief	Where sculptures stick out from a flat surface, rather than being made all the way around
cast	The process of making an object by shaping liquid metal in a mould.
brass	A metal made by mixing two other metals, copper and zinc.
ivory	A hard, white substance, made from the tusks of elephants, which can be carved.

Key Knowledge:

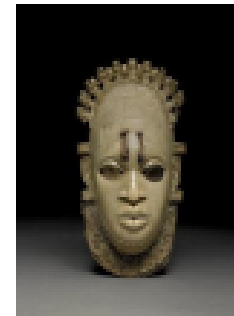
- I know that the Bamana people from Mali carve antelope headdresses to use in the Chiwara ceremony.
- I understand what Malian antelope headdresses represent.
- I know that the Benin Plaques are cast brass plaques made to decorate the royal palace in Benin city.
- I know that trade between the Edo peoples and the Portuguese is shown in Benin art.
- I understand that British forces took artworks from Benin City and some people think they should be returned.



Antelope Headdress, Mali (Bamana peoples)
19th century/early 20th century (Metropolitan Museum of Art, U.S.)



Benin Plaque, Nigeria (Edo peoples) 16th century (British Museum)



Benin Ivory Mask of Queen Mother, Nigeria (Edo peoples) 16th century (British Museum)



Benin Ivory Salt Cellar, Nigeria (Edo peoples) 17th century (British Museum)



Latin Knowledge Organiser - Unit 8: Clean and healthy

Key Vocabulary

Latin	English
hilariter	cheerfully
lūdunt	playing
apodytērīum	changing room
tepidarium	warm room
caldarium	hot room
frigidarium	cold room
recumbunt	lying down
ancillae	slave girls
prūdentē	skilfully
breviter	for a short time
summergunt	plunge
cum amīcīs	with friends
garriunt	chatting
laetae	happy (pl)
pūrae	clean (pl)
discumbe!	lie down!
oculōs aperī!	open your eyes!

Key Knowledge

- To translate a story containing adverbs
- To encounter and recognise Latin adverbs
- To know that adverbs end in -ter
- To learn about Roman baths
- To explore the tools that might have been used by Roman doctors
- To explore and translate ancient mythology (Odysseus and the Cyclops)

Unit Motto

Mens Sana In Corpore Sano = A Healthy Mind in a Healthy Body

Grammar

Words we use to talk about actions are called verbs, e.g. Lepidina **is playing**.

Words we use to add more information to a verb are called 'adverbs'. For example:
Scribo **hilariter** - I write cheerfully.

Adverbs in English usually (but not always) end in -ly. Adverbs in Latin often (but not always) end in **-ter**.



Knowledge Organiser – PSHE – Celebrating Difference - Year Five



Key Vocabulary	Definition
Culture	The ideas, customs, and social behaviour of a particular people or society.
Conflict	In opposition; a disagreement or argument.
Racism	The belief that people of some races are inferior to others.
Race Discrimination	This happens when racial groups are at a disadvantage to others.
Homophobic	Having or showing a dislike of or prejudice against homosexual people.
Rumour	A story or report of uncertain or doubtful truth.
Bullying	Behaviour that is repeated, intended to hurt someone either physically or emotionally.
Cyber bullying	The use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.

Key Knowledge

I can explain the difference between direct and indirect bullying.

I understand that cultural differences sometimes cause conflict and I know what racism is.

I can compare my life with people in the developing world.

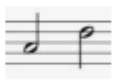
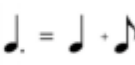

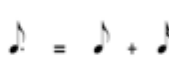



Reflective questions


Ask me this...

How might it feel to be discriminated against because of your race or appearance?

Do you understand the different types of bullying?

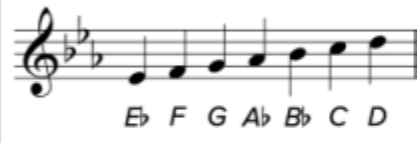
Key Vocabulary	Definition
Time signature	The rhythm following a clef
Key signature	The key of a piece of music depends on the flats and sharps in the music.
Tempo	The speed at which music is played <i>Moderato</i> – Moderate speed (112 bpm)
Rhythmic patterns using:	<p>Minims: </p> <p>Dotted crochets: </p> <p>Quavers: </p> <p>Dotted Quavers: </p> <p>Semiquavers: </p>
Accelerando	To get faster

Key Signature: C major — there are no sharps or flats in the key signature




C D E F G A B

Key Signature: E ♭ major — there are three flats in the key signature



E ♭ F G A ♭ B ♭ C D

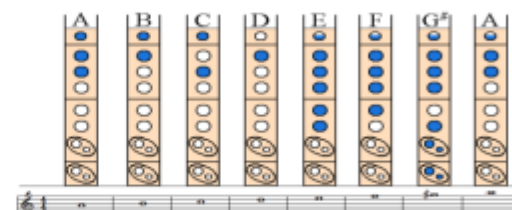
Key Signature: F major — there is one flat in the key signature



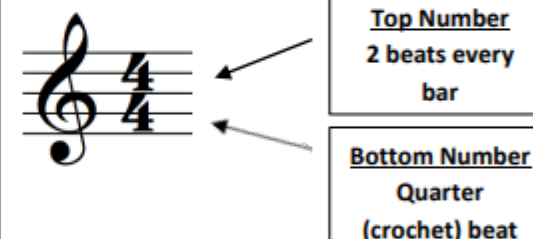
F G A B ♭ C D E

Improvise Together

Recorder A Minor Scale and Finger Chart.



2/4 Time Signature






Notes you composed with...

E ♭ F G A ♭ B ♭ C D

Songs Covered	
The Sparkle In My Life	Style: Pop.
Dreaming Of Mars	Style: 20 th and 21 st Century Orchestral
Get On Board	Style: Gospel

Key Vocabulary	Definition
Canon	When performers complete the same physical action one after another.
Unison	When performers complete the same physical action at the same time.
Mirroring	To copy the actions and moves of a partner.
Inverted balance	An action where your hips go above your head such as a shoulder stand, bridge and cartwheel.

Skills	
Backward roll	
Mirroring	
Inverted balance	

Skill Development

- To be able to perform symmetrical and asymmetrical balances.
- To develop the straight, forward, straddle and backward roll.
- To be able to explore different methods of travelling, linking actions in both canon and synchronisation.
- To be able to perform progressions of inverted movements.
- To explore matching and mirroring using actions both on the floor and on apparatus.
- To be able to create a partner sequence using apparatus

R.E. Year 5 Autumn 2 Christianity Knowledge Organiser

Enquiry: Is the Christmas Story True?

Key vocabulary	Definition
incarnation	God as a human – as Jesus.
nativity	The birth of Jesus
Truth	Something that is accurate
Gospel	Meaning 'good news' – stories about Jesus' life.

Key Knowledge

I know the different accounts of the Christmas story

I can explain the meaning of incarnation

I can give my opinion on whether a favourite story is 'true' and explain why

I can identify different sources of the Christmas story and explain the meaning of Christmas to Christians (Incarnation)

I can explain my opinion on whether the Christmas story is true and say what Christians might think of my opinion



What does *true* mean?

How are the accounts of The Christmas Story by Luke and Matthew different?

What makes The Christmas Story true for Christians?

What do Christians believe about Incarnation?

