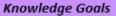


Knowledge Organisers Spring 1

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Art / DT
Computing
Geography
History
Latin
PE
PSHE
Music
RE
Science
Birch
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Knowledge Organiser- Scientists and Inventors – Science -Year 4/5

Key Vocabulary		
Naturalist	a person who specializes in natural history.	
Recognition	When someone receives public praise or credit for something they have done.	
Polar	(adjective) relating to the North of South Pole.	
Climate change	The long-term changes in global temperatures.	
Kevlar	A strong artificial material used to make bulletproof vests, boat hulls, airplane parts etc.	
Patent	A right of ownership, usually of an invention	
Astronomer	A scientist who studies objects in the sky, including planets, galaxies, black holes and stars.	
Apollo	The moon landing project conducted by the US.	
Pollinate	To take pollen from one plant or part of a plant to another so that new plant seeds can be produced.	

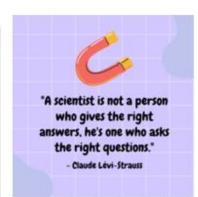


To know why the work of David Attenborough in raising awareness of the Arctic is so important.

To know how materials are developed and how they are useful for different things.

To know about the lifecycle of a star.

To know why bees are important.

























Knowledge Organiser- Russia – Geography -Year 4/5

continent	A large geographical region (Europe, Asia, Africa, North and South America, Australia, Antarctica).	
Eurasia	Land area consisting of Europe and Asia	
ecosystem	A community of living organisms (plants, animals) in a particular area.	
altitude	A point in relation to sea level or ground level.	
biome	A large region of Earth that has a certain climate and certain types of loving things	
populous	Having a large population.	
economy	The process by which goods and services are produced, sold and bought in an area.	
Kremlin	a group of buildings in Moscow that is now the centre of government of Russia	



Knowledge Goals

I know Russia is the largest country in the world and spans across two continents.

I know why the <u>Ural mountains</u> are so diverse.

I know some of the biomes found in Russia.

I know Moscow is the capital city of Russia.





Knowledge Organiser- Maya Civilisation - History -Year 4/5

Key Vocabulary		
Mesoamerica	Meso = middle. Meso-America is the region of Southern	
	Mexico and Central America	
sacrifice	To kill an animal or person for a God	
polytheism	Belief in many gods	
civilisation	A group of people living together in social groups	
primary source	A first-hand account of an event or an object from the time	
secondary	A source that was created, drawn or written at a later	
source	time	
hieroglyphs	A writing system that uses pictures and symbols	
syllabogram	A written symbol to represent a syllable	

Knowledge Goals

I know who the Maya people were and where in the world they lived.

I know about the Mayan people's religious beliefs.

I understand how the Maya number system worked.

I can explain which foods where significant to the Maya people.

Food

The Maya people mainly ate maize (corn). Maize was very important to them as they believed that the first humans were made from maize dough by the gods.

The Maya made a bitter chocolatey drink from cacao beans that was enjoyed by the

rich. It was used for medicines and in ceremonies. The cacao beans were highly valued and even used as a form of money.

Writing

The Maya writing system was used to write several different Maya languages. It was made up of many symbols called glyphs.

Logograms are glyphs representing whole words.

Syllabograms are glyphs representing units of sound (syllables).

The glyphs were carved on stone

buildings and monuments and painted on pottery. Maya scribes also wrote books

called codices.



Maya Numbers

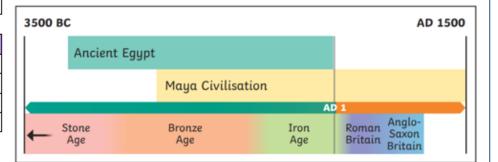
The Maya developed an advanced number system for their time.

They were one of only two cultures in the world to develop the concept of zero as a placeholder.



The number system used three symbols in different combinations.





Religion

The Maya believed in many gods and goddesses. They thought that the gods/goddesses had a good side and a bad side and that they could help or hurt them. The Maya people would dance, sing and make offerings to the gods/goddesses.



Maya priests were believed to be able to communicate directly with the gods/goddesses. As a result, they were very important in society.

R.E. Year 4/5 Spring 1 Knowledge Organiser

Enquiry: Judaism - What is the best way for a Jew to show commitment to God?

Key vocabulary	Definition Definition	
Responsibility	Having a duty to deal with something or do something	
Dedication	Being committed to a task or purpose	
Shabat	The Jewish Day of Rest	
Torah	The first five books of the Hebrew Bible	
Kashrut	Dietary rules for food	
Seder	A Jewish ritual and ceremonial dinner at the beginning of Passover.	
Shavuot	A Jewish festival which celebrates the day when the Ten Commandments were given on Mount Sinai.	
Bar/Bat Mitzvah		

Key Knowledge		
I can show an understanding of how people show commitment i lives.	n their	
I can investigate how Jews show their commitment to God.		
I know what happens at a Bar or Bat Mitzvah ceremony.		
I can investigate what the Torah says about commitment.		
I know Jewish people fast during fasting days.		







Bar Mitzvah for a young boy







Vegetables dipped in salt water Karpas





Chopped apples, walnuts and wine Charoset



Knowledge Organiser- River of Hope - Art -Year 4/5

Key Vocabulary		
River of Hope	River of Hope is an arts-based learning project linking schools around the world through the study of rivers and environmental issues.	
River	A natural flowing stream of water.	
Норе	A feeling of expectation – something positive going to happen.	
Natural Environment	The air, water, land in (or on) which people, animals or plants live.	
Translucent	An object, or substance, allowing some light to travel through.	
Print	A print is an impression made by any method involving transfer from one surface to another	
Mixed media	Artworks that are made using a range of materials	
Collage	A technique in which pieces of paper, photographs, fabric and other mixed media are arranged and stuck down onto a supporting surface resulting in a piece of art work.	
Installation Art	Describe large-scale, mixed-media constructions, often designed for a specific place or for a temporary period of time – also known as 'environments'	

Knowledge Goals

To be able to comment thoughts and ideas about the River of Hope.

To know how pieces of artwork are connected, including paintings, stories, poems and music.

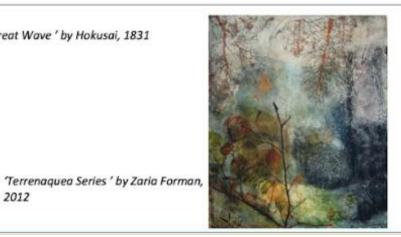
To explore shape, colour and lines used by artists, for use in a collaborative artwork.

To choose appropriate ideas and media when installing an artistic piece.

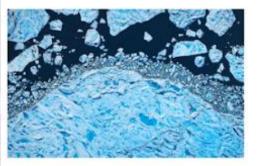


'The Great Wave ' by Hokusai, 1831

2012



'Impression Sunrise' by Claude Monet, 1872



'Lincoln Sea, Greenland' by Zaria Forman, 2019



'Study of Water, Phoenix' by David Hockney, 1976

Latin Knowledge Organiser - Unit 3: Work, Work, Work

Key Vocabulary		
Latin	English	
facis	You are doing	
scrībō	I am writing	
scrībit	He/she/it is writing	
spectat	He/she/it is watching	
p <u>ū</u> rgō	I am cleaning	
p <u>ū</u> rgat	He/she/it is cleaning	
legō	I am reading	
legit	He/she/it is reading	
verrō	I am sweeping	
subitō	suddenly	
ancilla	slave girl	
intrat	He/she/it enters	
nova/novus	new	
labōrant	They are working	
rīdent	They are smiling	
quod	because	
minimē!	No!	
legis	You read	
coquis	You cook	
valida/validus	strong	
semper	always	

Grammar

Words we use to talk about actions are called verbs, e.g. Corinthus is writing.

In Latin you don't need to use a separate word for "I" or "he" or "they". The ending of the verb tells us who is doing the action.

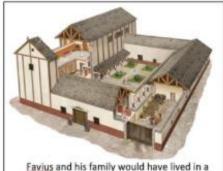




want you to remember that if a verb ends in -t, then he or she is doing that action.



Pandora's Box



Commanding Officer's house like this one.





Key Knowledge

To identify verbs in English and Latin.

To identify Latin verbs and begin to understand their endings.

To explore regular verb endings.

To write simple sentences with verbs and 'quod' (because).

To explore creation myths (Pandora's Box).

Unit Motto veni, vidi, vici = I came, I saw, I conquered



Knowledge Organiser- Data Logging - Computing

Key Vocabulary	Definition	
Data	A collection of numbers that can be analysed.	
Input Device	The information put into a computer of device	
Sensor	A device which detects, measures and/or records information	
Data point	A point where data is recorded	
interval	A space or gap between two things.	
Import	Transfer data into a file or document	
Export	Transfer data in a format that can be used by other programs.	
analyse	Discover or reveal something	

Data Recording

- -One way for us to record data is by writing it down.
 Some data loggers can also record data themselves, which we can download later. Computers can also help us to record data, e.g. by connecting our data loggers to computers and opening data logging software.
- -An advantage of this is that computers can record data automatically, meaning that someone does not need to sit waiting for a long period of time. Data loggers can be set to measure at different intervals (points in time).
- -Data logger software can also be used to show different charts and graphs. This can save the user a lot of time!







Key Knowledge

To be able to explain that data gathered over time can be used to answer questions

To be able to use a digital device to collect data automatically

To be able to explain that a data logger collects 'data points' from sensors over time.

To be able to recognise how a computer can help us analyse data

To identify the data needed to answer questions

To use collected data to answer questions

Data Collection

Asking Questions: Data gathered over time can be used to answer important questions.

For example, the class register can be used to answer questions about children's attendance. Before collecting data, we need to carefully consider which questions we are trying to answer.



-Sensors: Our senses (sight, hearing, smell, taste, touch) detect things in our environment. Computers have input device sensors which help them to sense things.

Some examples are:

- -Microphones (sound)
- -Camera (light)
 -Touchscreen (touch)



Data Loggers: Data loggers have sensors

built into them. They can be used to detect and record data.





- -A heat sensor (to record the temperature)
- A light sensor (to record brightness)
- -A sound sensor (to record the noise).

Analysing Data

-When scientists collect data, they usually store it so that it can be analysed at any time. The data can also be shared so that other scientists can use it.

-Tables and graphs can be used to present the data in a useful way for reading and

understanding it. It is important to be able to see trends as clearly as possible.



Answering Questions

- Remember that data should be collected for a reason; to answer questions.
- -It is very important to ensure that the testing that you do is fair and reliable, otherwise the data that you get back may not give you the accurate answers that you need.
- It is important to interpret your data carefully. You can then write a report detailing what your conclusions are.



Knowledge Organiser - PSHE - Dreams and Goals

Vocabulary		
Determination	The effort required to do something and keep doing it until the end, even if it is hard.	
Perseverance	The continued effort to do or achieve something despite difficulties, failure, or opposition.	
Cooperation	To act or work together with another or others for a common purpose.	
Fears	To be afraid of someone or something.	
Hopes	To want something to happen.	
Dream	Something that you hope for very much, although it is not likely to happen.	
Goals	An aim or purpose.	
Resilience	To be able to recover quickly from difficulties; toughness.	
Commitment	To be dedicated to a cause or activity.	













Key Knowledge

I understand that sometimes hopes and dreams do not come true and that this can hurt.

I know how to make a new plan and set new goals even if I have been disappointed.

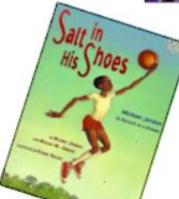
I know how to work out the steps to take to achieve a goal, and can do this successfully as part of a group.











Reflective questions

Ask me this...

What dreams or hopes do you have for the future?

How will you know when you have achieved your goal?

What can help when you feel hurt or disappointed?

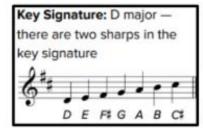


KNOWLEDGE ORGANISER MUSIC

COMPOSE WITH YOUR FRIENDS

Key Vocabulary	Definition	
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	
Melody	A succession of musical tones	
Dynamics	Levels of sound in music (soft to loud)	
Disco	A genre of dance music	
Folk	Music that originates from traditional cultures	
Orchestral	Music created by an ensemble of instruments	
Home note	Where the music feels like it finishes	
Tonic	The key note of the music	







Time Signature: 3/4 — there are three crotchet beats in a bar

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

Songs covered

- · Bringing us together
- Old Joe Clark
- · Dance with me











Key Vocabulary	Definition
Dribble	Moving with the ball by bouncing it with one hand.
Double Dribble	THIS IS NOT ALLOWED! – Dribbling the ball with 2 hands at once. Possession is given back to the opposing team.
Travelling	THIS IS NOT ALLOWED! – Moving with the ball without dribbling it. Possession is given back to the opposing team.
Chest pass	When someone passes the ball from chest height with no bounce.
Bounce pass	When someone passes a ball with a bounce.

Skill Development
To develop the attacking skills of dribbling.
To protect the ball when dribbling against an opponent.
To develop passing skills.
To use defending skills to delay an opponent.
To develop a shooting technique.
To apply rules and tactics in game situations.

Skills	
Dribbling	
Passing	
Shooting	