Year 5 and 6: Spruce, Sycamore, Whitebeam and Walnut

Friday 26th January 2024

News and reminders

PE days: Year 5: Wednesday Year 6: Monday

Children should come into school in their correct PE kit.

Please ensure that your child is wearing the Bierton P.E. hoodie, blue Bierton P.E. t-shirt and black leggings/joggers. We would also like to remind everyone that due to health and safety, earrings need to be removed or taped for PE lessons. Unfortunately, we cannot help children to remove their earrings or put them back in.

Coats: It is getting colder now, so please can all children be coming to school with a coat and other items to keep them warm when outside e.g. hats, scarves and gloves.

Library: The library is now open to Y6 on a Friday lunchtime.

A big well done to all the children who have completed their assessments over the last few of weeks. They have shown determination and resilience and we are super proud of them.

Reading millionaires: Well done to Ethan L (Walnut) Noah H (Whitebeam) and Ethan O (Spruce) who are our latest reading millionaires! Akhilesh and Saharash have now reached over two million words - the first children to do this! We would love to have more children become reading millionaires by the February half-term, so please keep reading everyone and you will be in with a chance to win a chocolate bar that is out of this world!

Superstar Learners in November

Well done to these children who have received a Christian Value certificate:

	Spruce	Sycamore	Whitebeam	Walnut
12 th January	Mollie -	Freya -	Layla –	Aryana –
	Respect	Cooperation	Responsibility	Responsibility
19 th January	Halle –	Harrison -	Scarlett -	Poppy -
	Cooperation	Responsibiltiy	Love	respect

Highest number of coins on Numbots	Highest number of coins on TTRS	Highest class quiz average
Halle	Stephen	Spruce 88%
Dominic	Seth	Whitebeam 83%
Effie	Sienna	Walnut 82%

Homework

Just a reminder that homework is set on a Monday and is due by the following Monday.

The homework requirements in Year 5 and 6 are:

- 30 minutes across the week on TTRockstars (split into 20 minutes garage and 10 minutes studio)
- 30 minutes of maths arithmetic
- 30 minutes completing the SPaG task (year 5)
- A 30 minute two part Literacy task (Year 6)
- Daily reading (complete at least one quiz on Accelerated Reader each week)
- Website for Accelerated Reader: https://global-zone61.renaissance-go.com/educatorportal/entry?t=6703196

Diary dates

Friday 2nd February - open classrooms 2:45pm

Tuesday/Wednesday 6th/7th February - parents evening.

Friday 9th February - break the rules day

Friday 9th February - finish at 3:15 for half term

Recent news

Pop up books

In DT last-term, the children planned, designed and created their own pop-up books for Year 1 children. Working in pairs, they had to make different slider and lever mechanisms to create the pop-up effect. They used their imagination to write fun, interesting stories for the children and all put a lot of effort into.

This week we took a visit to the year 1 classes where we read our stories to them and showed them our books. The year 1 children loved moving the mechanisms!

















Urban strides

At the start of the term, the children took part in an Urban strides session with the talented Amy. She taught them different street dance moves and the children were able to showcase what they learnt. They all had so much fun!













Our learning

Literacy

Poetry has been our focus since we returned this term. Our poem - Malfeasence - has given us the opportunity to explore language and vocabulary in a different way. This poem has lots of negative vocabulary and we have looked at how to combine different words to create a negative image.

Maths

We have been exploring fractions and looking at the relationship between different denominators. We have used this knowledge to add fractions with different denominators. To solve the addition problems we have had to work through multiple steps to reach the answer. Our knowledge of our times tables has helped us to solve these.

R.E.

We have a new question for the Spring term - Does the community of Gurdwara help lead better lives? To start our unit we looked at the origins of Sikhism and how the message was spread.

Science

Our last topic was forces. We found out about Isaac Newton, friction, air resistance, water resistance and pulleys. We started by looking at gravity and explored the size of craters that were made by dropping different sized objects.









We carried out an enquiry for friction that explored how friction acts between and object and a surface. We used our understanding of friction to help us to move our frog models from the bottom of a piece of string to the





Our learning

Literacy

Poetry has been our focus since we returned this term. Our poem - The Malfeasence by Alan Bold - has given us the opportunity the explore language and vocabulary in a different way. This poem uses negative vocabulary and we have looked at how to combine different words to create a negative image. The children will create their own poems for their independent writes at the











Maths

This month we have been covering measurements. The children have been learning how to convert different units of measure, such as: cm to mm, m to km, g to kg, I to ml and miles to km. The next unit they will be learning is percentages.



Humanities

In History this term, the children have started to learn about Ancient Greece. So far, they have explored what life was life for people in Ancient Greece and what it was like. The children have become historians and archaeologists, as they have been investigating different sources of evidence to help them learn about the time period.











RE

We have a new question for the Spring term - Does the community of Gurdwara help lead better lives? To start our unit we looked at how origins of Sikhism and how the message was spread.

Spirituality



Our Christian Value this term is 'Love' and children have been created their own prayers based on love.

Science

We have just finished our unit on forces. Recently, we have conducted experiments to find out which shapes travel through water with the least resistance, what can affect air resistance and finally we made our own pulleys to test which ones required the least amount of force. This term we are moving onto properties and changes of materials where we will conduct more investigations!

Y6 Photos





































Science Y5 Knowledge Organiser

·Can I recall information about the life and works of Sir Isaac Newton?

 Can I understand the forces of gravity and air resistance?

 Can I understand the effects water resistance and friction?

How and what are pulleys and levers used for?

• Can I explain how gears allow a smaller force to have greater effect?

·How can I calculate the density of an object?

Sir Isaac Newton (1643-1726)

- · Explained the three laws of motion
- Explained the theory of gravity, including gravitational pull of the Earth.
- Invented the reflecting telescope
- His physics book 'Principia' contained many theories of physics

Knowledge Organiser Unit: Forces and Magnets

Name	Picture	How it Works	Used For
Lever	A Comment	Helps to reduce the amount of force needed to move or lift an object, by increasing the distance through which the force acts.	stapler door handle claw of hammer tweezers
Pulley		Helps to reverse the direction of the lifting force, therefore multiplying the force your body produces on the object.	elevator wells theatre curtains bulldozer
Gear	Co	The 'teeth' on the gears turn one another, and in doing so, helps to increase the power of a turning force.	cars bikes pendulum clock vacuums

Can you resist me?

Air resistance, otherwise known as drag, is the way air opposes the direction an object is travelling in and slows it down. A good example of this is a parachute, the large surface area absorbs the air resistance, and slows down the descent of the parachutist.



Water resistance is the way water slows down the speed of the item travelling through it. This is why high-speed boats have a narrow front end, so that they can easily glide through it.

Key Vocabulary

Key Word	Meaning
Sir Isaac Newton	An English physicist and mathematician, one of the most influential scientists in history.
gravity	A force that attracts something with mass towards earth, measured in Newtons per kilogram.
resistance	A force exerted on something to slow it down or stop it.
lever	A simple machine used to move an object or operate a machine.
gear	Toothed wheel that engages with another to change speed or direction of a machine.
pulley	A wheel which a cord passes through; it helps to raise heavy weights.
mass	The measure of how much matter is in an object.

Friction occurs when two surfaces rub against each other.

The rougher the surface, the more friction is caused.

For example, sand and carpet have lots of friction.



Science Y6 Knowledge Organiser

Knowledge Organiser Unit: Properties and Changes of Materials		5 ways to	o compare a physical and c	hemical change.	
		Property	Physical Change	Chemical Change	
Key	Vocabulary	Explanation	Molecules are rearranged but the actual type of molecules stay the same.	The type and make-up of the molecules is changed and a new substance is formed.	
Key Word	Meaning	Change A temporary change that is easily reversed, and no new substance is formed.		A permanent change that is irreversible, with a new substance always being	
separate	To split or divide a substance into its distinct elements		substance is formed.	formed.	
	into its distinct elements	Energy	No energy is produced, and very little or no energy is	Energy is produced, in the form of light or heat (for	
olution	A mixture of two substances, the solute and the solvent		absorbed.	example) and energy is also absorbed.	
solute	A substance that is dissolved in liquid.	Effects	Only has an effect on physical properties of a substance or object i.e. shape, size.	Changes both physical and chemical properties of a substance or object.	
olvent	A substance that dissolves a solute, such as water.	Examples	Freezing or boiling water, melting wax	Burning wood, eating food, rusting of metal.	
irreversibl e Impossible to change back to a previous condition or state.					
			Ser	paration Techniques	
ompound	A substance formed when two or more chemical elements are bonded together	Filtering	···-·:	rating	
physical change	A change in material in which no new substances are formed	Brewing co	i !· Th	dy sweat le water cycle	
hemical hange	A change that results in the creation of few chemical	swimming p • Vacuum Cle		alt / crystal traction	

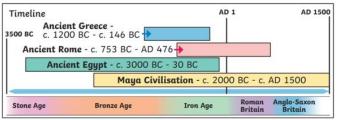
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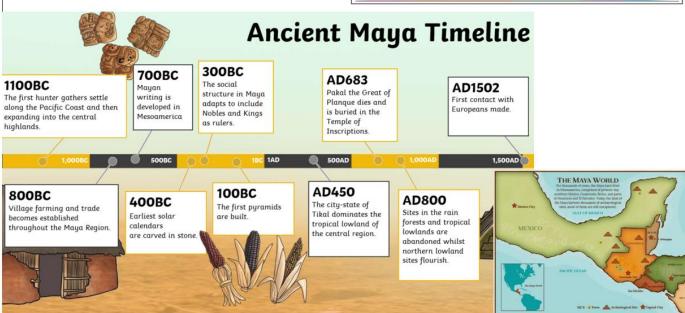
- To know that some materials will dissolve in liquid to form a solution
- To use knowledge of solids, liquids and gases to decide how mixtures and solutions might be separated
- Explain that some changes form new materials, and that these changes are not usually reversible
- To identify when a change caused by heating or cooling is reversible or irreversible.
- To investigate the materials needed for something to burn and the new materials formed by burning
- To compare and group together everyday materials on the basis of their properties
- To give reasons for the particular uses of everyday materials in relation to their properties

Sieving

- Removing impurities during cooking
- Sieving sand during building
- Mining for minerals

In your study of the Maya, you will learn how the Mayan civilization grew so strong when the odds against it were so huge. To help you develop the use of evidence, you will work out how we can be so sure about what life was like for the Maya a thousand years ago. You will look at their religious beliefs. You will create your own plausible answer to the riddle of why the Maya civilization came to such an abrupt end.





	Key Vocabatary				
	civilisation	A human society with well- developed rules and government, often where technology and the arts are considered important.			
	drought	A long period of time with little or no rαin.			
	jaguar	A big cat, heavier than a leopard, with yellowish fur and black spots.			
-	scribes	People trained to write things down, either as an official record or for someone else unable to write.			
	codices	Ancient handwritten texts. Maya codices could be unfolded like a concertina. One text is called a codex.			
	maize	Another word for sweetcorn or corn on the cob. It can be made into a dough and baked into tortillas.			
	cacao beans	Cacao trees sprout pods directly from their trunks. When they are ripe, the pods can be broken open to reveal the beans, which can then be dried, roasted and ground.			

Keu Vocabularu

Top takeaways

Having studied this topic, you should be able to:

- · Place the Maya on a timeline and a map.
- Identify and understand some of the achievements of the Maya.
- Explains some aspects of how the Maya
 lived
- Explain why the Maya civilisation lasted so long and was so successful.
- Explain the plausible causes of the decline of the Mayan civilisation.

primary source	Information and objects that come from the time being studied.
secondary source	Interpretations of information and objects which are produced after the time being studied

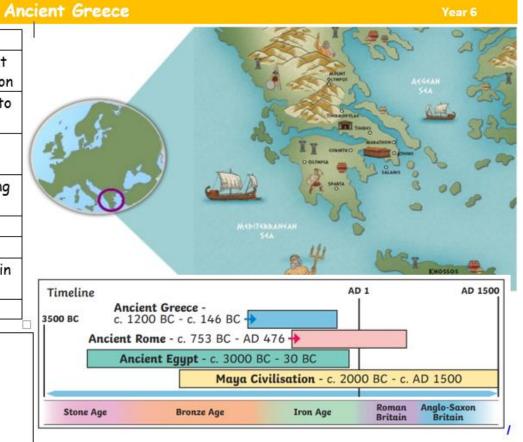
Humanities Y6 Knowledge Organiser

Key vocabulary This was a large rocky area high above Athens that Acropolis contained important buildings such as the Parthenon A busy central area, where people came together to Agora meet and trade, like a market place A city that became powerful and formed its own City state stat with its own government Rule by the people. The people have a say by placing Democracy a vote Helot A spartan worker owned by the state Hoplite A heavily armed Athenian foot solider Parthenon A temple in Athens, built for the goddess Athena in the 5th century Polis A Greek city state

Top takeaways

By the end of this unit I should be able to:

- Explain the features of Greek society
- Explain how ancient Athens was ruled
- Give 3 important examples of Ancient Greek achievements
- Make deductions about wat mattered to the Ancient Greeks
- Explain how the Ancient Greeks have influenced our lives today



Ancient Egypt			Ancient Greec	:e			Roman Empire
2000 BC	1200 BC	776BC	650BC	490BC	400BC	350BC	150BC
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Palace at Knossos, Crete	Trojan wars	Olympic games	Homer	Battle of Marathon	Wars between	Archimedes	Romans conquer Greece
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primary source	Information and objects that come from the time being studied.
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What should be able to do:

- Know what Sikhs believe and some features for Sikh worship.
- Be able to find out how Sikhs pray and worship.
- Will know the ways that children are welcomed into the Sikh community.
- Explore the Sikh tradition of the langur and what it is.
- Understand the Sikh practice of sewa and list examples.

Vocabulary:		
Sacred text	Writing that is respected for the worship of a deity.	
Gurdwara	A Sikh place of worship.	
Sikhism	A religion founded in Punjab in the 15 th centry by Guru Nanak.	
Guru Granth	The holy scripture of Sikhs.	
Sahib		
Reincarnation	A person or animal in whom a particular soul is believed to have been	
	reborn.	
Langar	A communal free kitchen.	
Sewa	A self-less service.	
Mandir	A Hindu or Jain temple.	
Guru	A spiritual teacher/expert.	