



News and reminders

PE days:

Year 5: Tuesday **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 - Now that the weather is turning much colder, it is really important that children come to school wearing a coat.

Break time snack - A reminder that children should only be bringing in fruit for a breaktime snack.

First millionaire readers: A big well done to Ayan, Hania and Rory who are our first millionaire readers!

Superstar Learners in October

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

	Spruce	Sycamore	Whitebeam	Walnut
11 th October	Furayah - Co-operation	Jack - Responsibility	Flo - Co-operation	Sienna - cooperation
19 th October	Ollie - Growth Mindset	Movitha - Growth Mindset	Marnie - Growth Mindset	Joseph - Growth Mindset

Highest number of coins on Numbots	Highest number of coins on TTRS	Highest class quiz average
Mia	Aryana	Spruce 88%
Nirah	Hansi	Sycamore 86%
Hansi	Franek	Walnut 84%

Diary dates

- **Wednesday 16th November:** Whole school flu vaccinations
- **Thursday 17th November:** Children in need day
- **Monday 20th November:** Road safety week
- **Friday 24th November:** Open classrooms - parents and carers invited into the classroom to view books - at 2:45pm

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
- 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>

Look at what we have been up to over the past few weeks!

Author Visit -



We were fortunate enough to enjoy another inspirational author visit from local author Matt Brown. Matt writes with comedy and compassion, about crazy characters and important messages and he inspired us to have a go too.



TTRS/Number day

We spent the day taking part in lots of number activities. In our classes we had some TTRS competitions trying to get the highest score in the class. We also explored the use of number as part of creating codes and if we could then crack them. Some of the teachers competed against each other on TTRS in assembly. Well done to Ms Martin who won the competition!





Our trip to the Space Centre



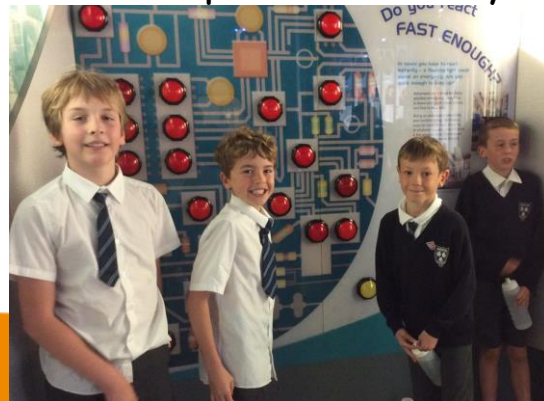
Back in October, we had our first school trip of the year to the National Space Centre. We had an amazing time and the children were a real credit to the school. We all took part in a 'Mars Rover' challenge. We had to program our rover on a computer so that it would move along the floor and we had certain challenges to complete.



We spent time looking round the museum and got to go up in the rocket tower!



Finally, we all went to the planetarium and watched an interactive show about all of the planets. When we sat back in our seats and looked around, we could see the whole of space. Most of us agreed it was our favourite part of the day!



Our learning

Literacy

We have just completed our non-fiction unit by writing our own non-chronological report about a mythical creature of our own creation. We created our creature by combining two or more animals to give them a wide range of traits and features. We then used these ideas to write our own non-chronological reports. Our new unit is based on the book *Cosmic* by Frank Cottrell-Boyce. This is a fiction unit and we will be writing our own versions of how the story could end.



Science

We have started the final part of our space unit, this is going to be a group presentation looking at a certain area or space. We will work together to research the area we choose and then create a presentation all about it to share with our class. We will be using our Oracy skills to present what we have found out. We will be focusing on the physical and linguistic skills for oracy.

Physical

Voice

- Fluency & pace of speech
- Tonal variation
- Clarity of pronunciation
- Voice projection

Body language

- Gesture & posture
- Facial expression & eye contact

Linguistic

Vocabulary

- Appropriate vocabulary choice

Language

- Register
- Grammar

Maths

We have been looking at multiplication and how we can use the formal method to solve different calculations. We are moving on to multiplying a 4-digit number by a 2-digit number.

$$\begin{array}{r} 5,280 \\ \times 25 \\ \hline 11 \\ 26400 \\ +105600 \\ \hline 132,000 \end{array}$$

R.E.

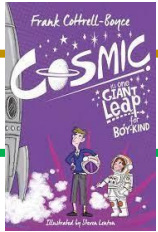
This half term our question is "Does God communicate with man?" We will be exploring this question in a range of ways. During our first lesson we looked at different ways that messages can be shared and how they can be interpreted in different ways. We will be looking at different Bible stories and finding the messages in each of them.

Humanities

We are continuing with our unit on earthquakes and volcanoes. We have looked at some famous earthquakes and volcanoes and we will be moving on to look at how to prepare for these. We have found it really interesting learning about the location of volcanoes and where the largest earthquakes have occurred.

Literacy

We have just finished our non chronological report unit and have written our own report on a fictional animal. Our new unit is based on the book *Cosmic* by Frank Cottrell-Boyce. This is a fiction unit and we will be writing our own versions of how the story could end.



Science

We have started the final part of our space unit, this is going to be a group presentation where we will research and present the 'Big bang' theory. We will work together to research the area and then create a presentation all about it to share with our class. We will be using our Oracy skills to present what we have found out. We will be focusing on the physical and linguistic skills for oracy.

Y6 will then be moving on to our 'forces' topic. We will be finding out about gravity, air resistance and water resistance. We will also be finding out what levers and pulleys are used for. This is a very practical topic and we are excited to be carrying out lots of investigations.

RE

Last half term, we had the Iman come into speak to us about Islam. This was linked to our last RE topic. He showed us the Quran and spoke to us about how we should show respect towards it. He taught us about the Islam religion and answered any questions we had. We all found the talk very interesting and learnt a lot.

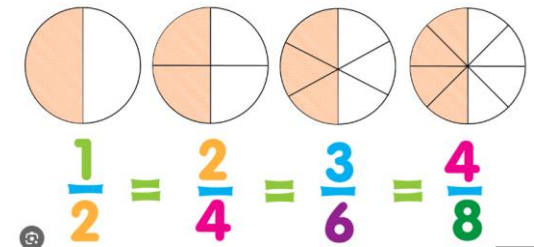


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Maths

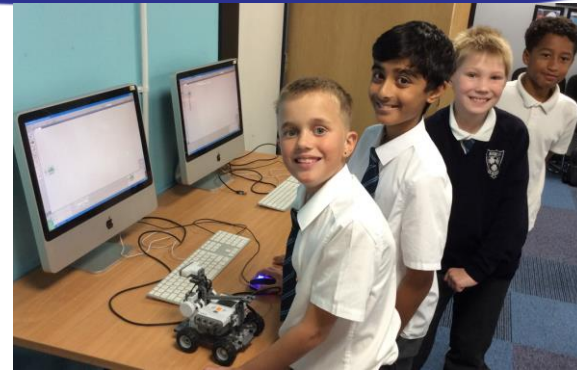
Next week we will be moving onto our unit on fractions. We will begin by simplifying fractions and find equivalents. We will then learn how to use the four operations with fractions. Finally, we will learn how to use improper and mixed fractions and how to convert them both. We will be able to use this learning to help us improve on our arithmetic scores in maths and when we do our arithmetic homework.




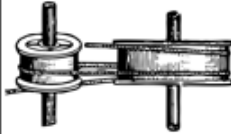

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Y6 Photos



Knowledge Organiser Unit: Forces and Magnets

Name	Picture	How it Works	Used For
Lever		Helps to reduce the amount of force needed to move or lift an object, by increasing the distance through which the force acts.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • elevator • wells • theatre curtains • bulldozer
Gear		The 'teeth' on the gears turn one another, and in doing so, helps to increase the power of a turning force.	<ul style="list-style-type: none"> • cars • bikes • pendulum clock • vacuums

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.

1

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

2

• Can I understand the forces of gravity and air resistance?

3

• Can I understand the effects water resistance and friction?

4

How and what are pulleys and levers used for?

5

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

6

• 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

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.

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.



Knowledge organiser – Volcanoes and Earthquakes

What will we be learning?

- The structure of the Earth.
- Features of a volcano.
- Famous volcanoes and earthquakes.
- Effects of volcanoes and earthquakes.
- Preparing for an earthquake.
- What it's like living near a volcano.

Key facts

Famous volcanoes:

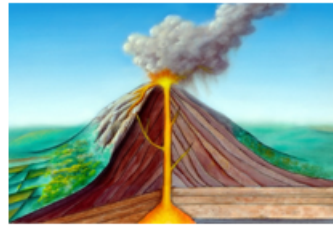
Soufrière (St Lucia, North America), Eyjafjallajökull (Iceland, Europe), Popocatepetl (Mexico, North America), Vesuvius (Italy, Europe), St Helens (USA, North America), Etna (Italy, Europe).

Key knowledge

The Earth is made up of layers. The top layer, the Earth's crust, consists of large slabs of rocks, called plates. The plates move as the hot mantle flows beneath them. The movement of the plates causes earthquakes and leads to volcanoes erupting.

Earthquakes are measured on the Richter scale, They can cause devastating damage to buildings, roads and land.

When volcanoes erupt they spew out lava. This is a very hot liquid that destroy anything in its path.



Place names	Geographical terms and processes	Locational terms
Great African Rift Valley	crater	epicentre
Haiti	disaster	plate boundary
Iceland	dormant	
Japan	eruption	
Mauna Loa	magma	
Pacific Ring of Fire	tsunami	

Glossary

dormant: a dormant volcano is a volcano, like Kilimanjaro, that has not erupted for a long time

epicentre: where an earthquake starts and is felt most strongly

tsunami: a huge, powerful wave caused by an earthquake

Autumn 2 - Does God communicate with man?

What should be able to do

- Know the specific prophecies that Christians link to the birth of Jesus.
- Be able to evaluate your contribution to understanding of the Christmas story.
- Will know the ways that God communicates to people during the Christmas narrative and the impact of people's responses.
- Know the different ways that Christians believe God communicates with them and the difference that makes to their lives.
- Understand the Christian view of the Bible as the words of God

Vocabulary:	
Sacred text	Writing that is respected for the worship of a deity.
Prophecy	A message that has been communicated to a person by a supernatural entity.
Revelation	The idea that the Bible is one of the ways which God revealed himself to humans.
Incarnation	The belief that God took human form by becoming Jesus, 'to take on flesh'.
Christmas story	The story of God sending his son from Heaven to Earth in form of Jesus Christ.
Bible	The Holy Book used by Christians.