



## News and reminders

**Year 5: Costumes for Christmas play** need to in school by Friday 8<sup>th</sup> December. Please can they be in a named bag.

**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:** 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.

**Latest millionaire readers:** A big well done to Musa and Akshara in Walnut, Vinusan, Shaswath and Akhilesh in Whitebeam and Lakshana and Saharsh in Sycamore. They are our latest millionaire readers. It would be lovely to have a few more before Christmas!

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

**Clubs:** This was the last-week of clubs for the term, there are no more clubs until after Christmas.

## Diary dates

- **Tuesday 5<sup>th</sup> December:** Christmas carols in the hall 3:30 - 4:30
- **Thursday 7<sup>th</sup> December:** Children watching Christmas Panto.
- **Friday 8<sup>th</sup> December:** Each class performing for our Senior Citizen event.
- **Tuesday 12<sup>th</sup> December:** Hot Christmas lunch.
- **Wednesday 13<sup>th</sup> December:** Santa Run
- **Wednesday 13<sup>th</sup> December:** FOBS Christmas Disco (4:30pm - 5:30pm).
- **Friday 15<sup>th</sup> December:** Year 5 Christmas performance (starts at 9:00am)
- **Monday 18<sup>th</sup> December:** Class Christmas parties (wear Christmas jumpers)
- **Tuesday 19<sup>th</sup> December:** Christingle service
- **Tuesday 19<sup>th</sup> December:** School closes at 1pm.

## Superstar Learners in November

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

	Spruce	Sycamore	Whitebeam	Walnut
24 <sup>th</sup> November	Effie - Respect	Asha- Love	Akhilesh - Responsibility	Owen - Responsibility
30 <sup>th</sup> November	Neo - Cooperation	Jessica- Cooperation	Zak - Cooperation	Georgina - Love
Growth mindset	Halle	Morgan	Isaac	Anissa

Highest number of coins on Numbots	Highest number of coins on TTRS	Highest class quiz average
Nirah	Vinusan	Spruce 88%
Vinusan	Aryanna	Whitebeam 84%
Halle	Hansi	Walnut 83%

## 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!

## Children in need day

Last Friday, Bierton joined the nation in celebrating and supporting the Children in Need appeal. Children in Need gives money to a wide range of child-focused charities across our country, striving to improve the lives of every child in the UK. At Bierton, we contributed by taking part in the 'Bearpee Challenge' and of course through all your generous donations allowing your children to wear weird and wonderful mufti clothes for the day. Here is a selection of pictures of a day that was both fun and fundraising!

The final total for this year's Children in Need appeal was 33.5 million pounds!



## Y6 ambassadors

We are proud to present our Year 6 ambassadors! We were amazed with how many children applied for a role and proud of how much effort each child put into their applications. It was a tough pick but every single child in Year 6 should be proud of themselves.

Our ambassadors are:

RE: Erin and Aryana

OPAL: Liam, Anissa, Harry and Annabelle

STEM: Hania and Zainab

Literacy: Sienna, Georgina and Violet

Maths: Juliet, Kavinuyan and Dhruvitesh

Sports: Jack, Ruby, Akhliesh and Pops

Growth mindset: Owen and Marnie



Well done! 😊



## Literacy

We have just finished our fiction unit inspired by the comedic writing of Frank Cottrell-Boyce. The children created some wonderfully weird stories shooting their protagonists off into outer space or to distant dimensions, with some very impressive results!

Our next unit is non-fiction based, we are studying the genre of diary writing and, inspired by this terms work on Space we are writing intergalactic journals from lost and stranded astronauts.



## Maths

We have finished our unit on multiplication and division, and have moved onto interpreting tables and graphs. Our first lessons looked at reading timetables, a valuable life skill if you want to get somewhere on time!

Remember to practise using the 24 hour clock to help you with this.



## R.E.

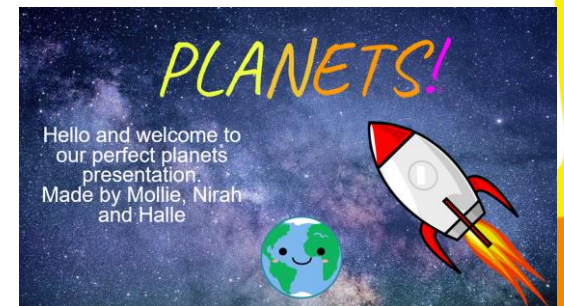
We have continued exploring our key question, 'Does God communicate with humans?' studying the role of prophets and prophecy and how angels appear in the bible as messengers of god.

## Design and Technology

We have enthusiastically started our DT project for the term, the creation of Pop Up books! Starting by exploring a range of existing products we discussed both the audience and the purpose of our own designs and have decided to make pop-up books to entertain younger children who are in Year 1. We then started the process of working in teams to plan out the texts, illustrations and the simple mechanisms we will use to make our work... well, POP! With luck, at the end of the unit we'll be able to share our completed projects with the Year 1 children in Beech and Birch.

## Science

We completed our unit on Space and used what we learnt along with some further independent research have completed a presentation to the class. We worked in small groups on an area of space that we were really interested in and created presentations. We used our physical Oracy skills to ensure that our voices were loud enough for the audience to hear.



### How big is the Sun?

It is 864,000 miles (1.3 million) in diameter which makes it 109 times wider than the Earth its 10,000 degrees fahrenheit (5,500 degrees celsius) at the surface, to 27 million degrees at fahrenheit (15 million degrees celsius) in the core.





## Our learning

### Literacy

We have just completed our fiction unit, Cosmic by Frank Cottrell-Boyce, by writing our own version of how the story could end after pressing a big, red button! The children have been able to use what they have learnt within this unit as well as their imagination to write fantastic stories! The children thoroughly enjoyed this unit and many of them were proud of what they had written. Our new unit is called Mars Transition; they will be writing their own diary entries as if they were a Martian stuck on the Red Planet.



### RE

This half term our question is "Does God communicate with man?" We will be exploring this question in a range of ways. We have explored different ways that messages can be shared and how they can be interpreted in different ways. Also, we have looked at different Bible stories and finding the key messages in each of them and why/how they were shared to others. As well as that the children have created and painted their own interpretations of angels, as the children have been learning about how God has sent angels to communicate to people in Christianity and Islam.



### Maths

During the last few weeks the children have been working hard on fractions. They have been learning: how to order and compare fractions, adding, subtracting, multiplying and dividing fractions with different denominators, as well as adding and subtracting mixed number fractions. They will soon be moving onto decimals.

**Dividing Fractions**

KEEP CHANGE X FLIP

$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$

**Adding Mixed Numbers**

$1\frac{1}{3} + 2\frac{1}{2}$

find LCD and add

$\frac{8}{6} + \frac{5}{2} = \frac{8}{6} + \frac{15}{6} = \frac{23}{6} = 3\frac{5}{6}$

convert mixed numbers to fractions

convert back to a mixed number

$4\frac{1}{10}$

**Multiplying Fractions**

STEP 1:  $\frac{3}{4} \times \frac{2}{5}$

STEP 2:  $\frac{3 \times 2}{4 \times 5} = \frac{6}{20}$

STEP 3: Simplify!  $\frac{6}{20} = \frac{3}{10}$

### Humanities

We are continuing with our unit on earthquakes and volcanoes. We have looked at some famous earthquakes and volcanoes, the children have created their own fact-files and researched a famous earthquake and also written a report on a volcanic eruptions happening. Also, they have learnt about what happens before and after an earthquake and volcanic eruption has happened, as well as why people would want to live near volcanoes. The children will be finishing this unit soon, but they have thoroughly enjoyed researching and learning about famous earthquakes and volcanoes that have happened. We will be moving onto learning about the Greeks in the new-year!



### Science



The children have finished 'Space' and completed their oracy task all about 'The Big Bang'. Each group conducted their own research and created a slide/poster, which they presented to the whole class using their oracy skills. We have now moved onto Forces and the children have thoroughly enjoyed completing different, fun experiments!

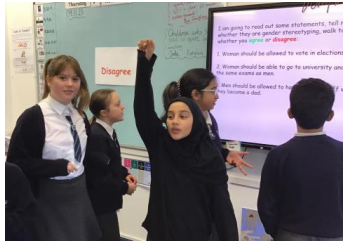
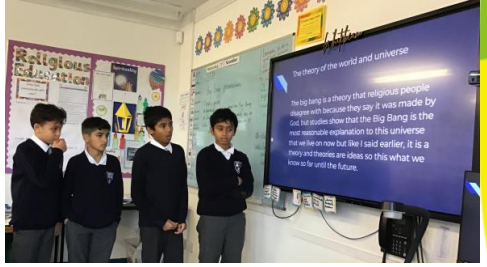
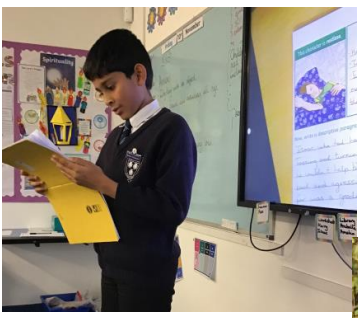
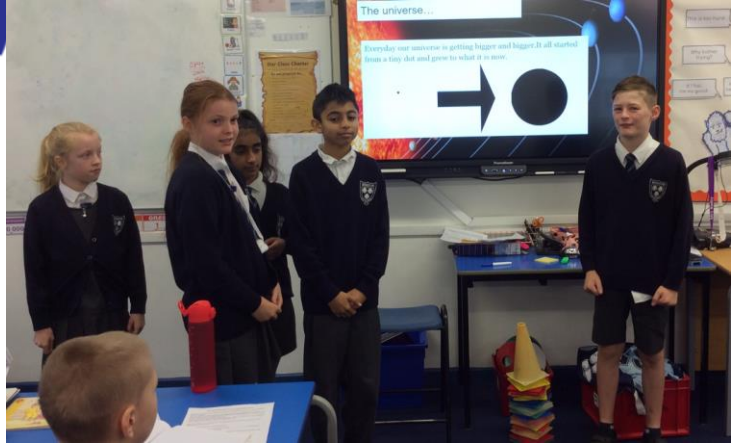
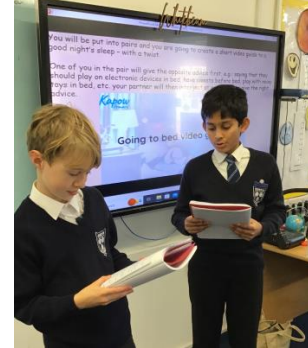
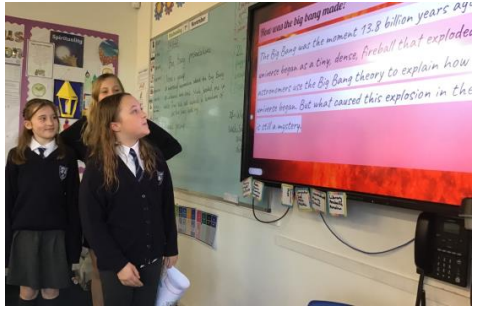
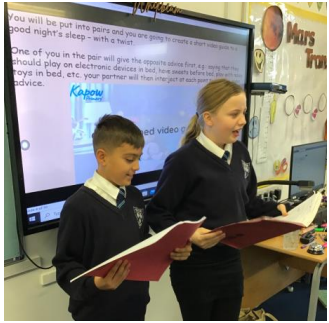
### Spirituality

The children watched year 4 perform a moving assembly on 'Remembrance' which included poems, songs and a minute's silence to reflect and consider why we must always remember. Also, they created poppies that were displayed around the school.





# Y6 Photos





## Knowledge Organiser Unit: Forces and Magnets

## Key Vocabulary

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


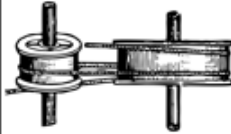

• Can I explain how gears allow a smaller force to have greater effect?

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

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"> <li>• stapler</li> <li>• door handle</li> <li>• claw of hammer</li> <li>• tweezers</li> </ul>
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"> <li>• elevator</li> <li>• wells</li> <li>• theatre curtains</li> <li>• bulldozer</li> </ul>
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"> <li>• cars</li> <li>• bikes</li> <li>• pendulum clock</li> <li>• vacuums</li> </ul>

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.

### 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:

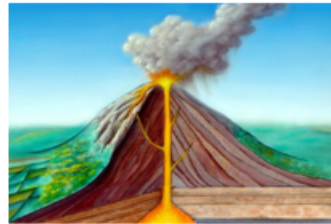
Soufrière (St Lucia, North America), Eyjafjallajökull (Iceland, Europe), Popocatepetl (Mexico, North America), Vesuvius (Italy, Europe), St Helens (USA, North America), Etna (Italy, Europe).

### 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.