

Science: Space

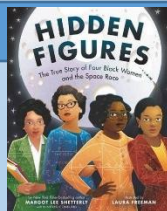
Our science and topic work will be closely linked this half term. We will be finding out how mankind has proven the Earth is a sphere and learn about the other planets in the solar system. Lessons will include the reason for day and night, as well as the phases of the moon. As much as possible, we will make our learning a really visual.

English:

This half term, we will be using the book Hidden Figures to support our learning. We will start the half term by writing biographies, then move on to write instructions for our own space food. This will allow us to consolidate learning through History lessons.

Books:

- Hidden Figures by Margot Lee Shetterly.
- The Challenger Disaster by Pranas T Naujokaitis.
- We Are All Astronauts by Kate Pankhurst.



Art:

In art, we will be taking inspiration from the Peter Thorpe, studying his artistic style and techniques before applying these to our own work. He specialises in abstract art that uses colour to explore emotions.

Space: Who are the hidden (or not so) figures of space?

History:

As historians, we will be learning about the Cold War and the role of the Space Race within this. Amongst other historical events, we will construct timelines, find out about the Moon Landings and decide if the Space Race between the USSR and the USA had a winner.

Religion and worldviews:

This half term, will be learning about Hinduism and answering the question, 'What do Hindus believe?'. This world faith has many similarities and differences to other religions that pupils have studied so these comparisons will form part of our learning. The lessons will look at the importance of moksha, karma and samsara and the effect this has on a Hindu's life. Lessons will include learning about important Hindu figures such as Mahatma Ghandi.

Schools of Sanctuary:

We will be using the text 'Hidden Figures' to discover the inspirational stories of four black women that were instrumental in the Space Race.



Maths:

This half term, we will continue looking at fractions, including comparing and ordering them. Through our DT lessons, we will be teaching key measurement knowledge and comparing amounts. We will learn effective methods to multiply 4-digit numbers by two-digit numbers and divide four-digit numbers by one- and two-digit numbers.

DT:

We will be making our own space food! This will start with generating ideas about our product and its' uses, designing packaging and exploring nutrition. The practical lessons will include making packaging, measuring and creating their own recipe!

French:

We are going to build on our learning from the Autumn term and will be studying the weather. This will allow pupils to learn phrases and sentences, including using adjectives.

RSHE:

We will be looking at consent and what this means for pupils and why it is important. Classes will revisit the 'tricky friends' topic to support pupils as they venture through Year 5.

Physical Education:

The cognitive skill that we will be focusing on this half term is using awareness of space and other people to make good decisions in sport as well as understanding tactics of attacking and defending. We will also zoom in on static balance skills and footwork. The two classes that have not been swimming yet will be learning lifelong skills over at the UEA.

Vocabulary	Meaning
Segregation	The forced separation of people and treating them differently.
Celestial	Positioned in or relating to the sky, or outer space as observed in astronomy.
Satellite	An artificial body placed in orbit round the earth or moon or another planet in order to collect information or for communication.
Horizon	The line at which the Earth's surface and the sky appear to meet.
Orbit	The curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.
Axis	An imaginary line about which a body rotates (in this case, the body is Earth).
Solar system	The collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.
Astronomer	An expert in or student of astronomy (the branch of science which deals with celestial objects, space, and the physical universe as a whole).
Jim Crow law	A discriminatory and unfair law that southern states of USA adopted after the abolishment of slavery. This law meant that white and black people were separated so they had no contact. This included parks, cinemas and shops.



Optional activities that could be completed at home:

It is vital that your child spends time reading at home every day. This could be out loud, with an adult or other family member or to themselves.

- Make a 3D model of an item from space (planet, rocket, stars or anything else you can think of)!
- Create a song to help remember the order of the planets – this could be filmed or performed in class!
- Create your own graphic novel that is space-related: it could be about exploring a moon, visiting a planet, Doctor Who or Star Wars themed or anything else linked to our Solar System.
- Make your own alien! You could do this using unwanted items at home, draw or paint it or even using textiles skills like sewing and knitting.
- Research someone who landed on the moon. Create a fact file.
- Record how your shadow changes during the day – draw around it or take photos. What did you discover?
- Carry out a science investigation to record the sun rise and sun set times for 2 weeks. Draw a graph to show this.
- Create and record your own podcast teaching people facts about the solar system.

ClassDojo:

We love to see the work children and families have been doing outside of the classroom!

Please send us pictures of the work they are doing whether it is school-related or an activity they do outside of school. We will make sure that these are celebrated in class. If you have any questions, please send us a message or come and chat to us after school.

Volunteering in School

If you want to further support and enhance the children's learning, and have some free time, we'd love to have you pop in for whatever time you can spare.

This could be as a regular slot to help with spelling, reading or maths or it might be that you have a particular job or interest that you think would be interesting or relevant to our learning.

Please contact with your child's teacher if you're interested!