

Year 5 Term 2

**How can somewhere you have never been, be so important?**

**SCIENCE**



**National Curriculum Links:**

**Earth and Space**

Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth.

Describe the Sun, Earth and Moon as approximately spherical bodies.

Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky.

**Essential Prior Learning:**

The differences between night and day: the sun gives us light during the day and its absence makes it dark at night.

Gravity keeps us on Earth and helps keep the planets in place.

The sun, moon and stars exist.

We live on a planet called Earth and there are other planets.

Earth is round.

**Progression in Skill:**

Identify scientific evidence that has been used to support or refute ideas or arguments.

**Long-term Memory Knowledge:**

Explain how the Earth and other planets move in the solar system in relation to the sun.

Explain the movement of the moon in relation to the Earth.

Know approximately what shape the sun, Earth and moon are.

Explain day and night, referring to the Earth's rotation; explain why the sun appears to move across the sky.

Know some of the ways in which scientists have learnt about the solar system.

**Key Vocabulary**

<b>rotation</b>	when something turns or spins around a point located at its centre
<b>orbit</b>	A repeating path that one object in space takes around another
<b>shadows</b>	A dark shape made when something blocks light
<b>heliocentric</b>	has the sun at its centre
<b>axis</b>	An imaginary line that runs directly through the centre of Earth. Earth rotates on its axis.
<b>position</b>	A comparison of where something is related to another object or its surroundings
<b>seasons</b>	Regular changes in the weather
<b>Sun (star)</b>	The star at the centre of our solar system
<b>Moon</b>	a large natural object that orbits the Earth or a planet
<b>axis</b>	the centre around which something rotates
<b>spherical</b>	an object shaped like a ball

<b>solar system</b>	a part of space that consists of the sun and everything that orbits or travels around the sun
<b>Planets Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune</b>	the eight planets that orbit the sun; the planets in our solar system

**Progression in Resources:**

Planet models  
Reference texts

**Relevance**

<b>Now</b>	Children know there are planets other than ours and begin to understand the relationship between them; they see that our wider environment extends beyond our planet.
<b>Future</b>	Children understand why some people are keen to explore other planets and the importance of learning more about them; they understand that our actions on Earth can impact a wider environment than just our planet.
<b>Aspiration</b>	Children are interested to learn more about space and the planets, possibly considering a career that is related; they may become involved in the quest to find life on other planets or whether life could be sustainable anywhere other than Earth.