

Year 5 Spring Term

Earth and Space

Enquiry question: How does the movement of the Moon and the Earth affect us?

Prior Knowledge

- Observe changes across the four seasons. (Y1 - Seasonal changes)
- Observe and describe weather associated with the seasons and how day length varies. (Y1 - Seasonal changes)

Core Knowledge

The Sun is a star. It is at the centre of our solar system. There are 8 planets (can choose to name them, but not essential). These travel around the Sun in fixed orbits. Earth takes $365\frac{1}{4}$ days to complete its orbit around the Sun. The Earth rotates (spins) on its axis every 24 hours. As Earth rotates half faces the Sun (day) and half is facing away from the Sun (night). As the Earth rotates, the Sun appears to move across the sky. The Moon orbits the Earth. It takes about 28 days to complete its orbit. The Sun, Earth and Moon are approximately spherical.

Common Misconceptions

- the Earth is flat
- the Sun is a planet
- the Sun rotates around the Earth
- the Sun moves across the sky during the day
- the Sun rises in the morning and sets in the evening
- the Moon appears only at night
- night is caused by the Moon getting in the way of the Sun or the Sun moving further away from the Earth.

Vocabulary

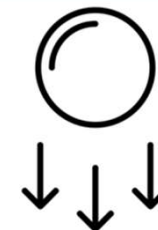
heliocentric, geocentric, solar system, Earth, The Sun, star, The Moon, planets, (Mercury, Jupiter, Saturn, Venus, Mars, Uranus, Neptune), spherical, solar system, rotates / rotation, orbit, revolution, moon phase names, reflect, tilt, axis, seasons, hemisphere.

Enquiry Skills

Observing over time

How does the movement of the Moon and the Earth effect our planet?

Concept



Earth and space

