



Knowledge Organiser

Science : Earth, Space and Light

Year 5/6

Theme: Cause and Effect

Summer Term A

Prior Knowledge

Year 5 & 6

Recognise that light appears to travel in straight lines

Use the idea that light travels in straight lines to explain why shadows have the same shapes as the objects that cast them

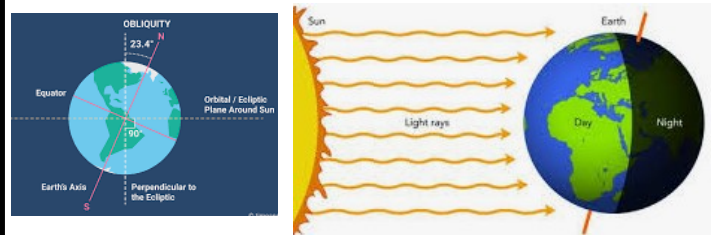
KS1:

Observe change across the four seasons

Observe and describe weather associated with the seasons and how the day length varies

Application of Knowledge

- 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.



What I will know by the end of this topic

What shape are the Sun, Earth and moon? *Spherical*

What does the Earth spin around? *An axis*

How long does it take for the Earth to orbit around the Sun? *365 days*

What does the moon orbit and how long does this take? *The Earth and 27 days*

What time of day is it when the Earth faces away from the Sun? *Night*

Why does the Sun appear to move across the sky during the day? *The Earth is spinning on its axis which makes it appear the sun is moving.*

How many planets are there in our solar system and what are their names? *8 – Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.*

Who was Copernicus and what did he believe? *Copernicus was an astronomer who helped develop the heliocentric model of the solar system*

How does light travel? *In straight lines*

Vocabulary

Solar system	This consists of the Sun and everything that orbits around it, including the 8 planets.
spherical	Having the shape of a sphere.
orbits	The path an object takes to travel around a planet or star in space.
Rotation	The act of rotating (moving in a circle) about an axis or centre.
planets	Large, natural objects that orbit a star in space.
axis	An imaginary line an object turns around.
heliocentric	The idea that the Earth and the planets revolve around the Sun.
galaxy	A group of stars, clouds of gases and dust particles that move together through the universe.
Milky Way	This is a disc shaped galaxy which contains the Earth and Sun.

