

# Preston Primary School Knowledge Organiser

Topic: Science

Term: Autumn 2

Year: 5/6

Duration: 6 Lessons

The Powerful Knowledge we will take away from this Learning Enquiry (what I will be learning):

Question: How does the movement of planets created night and day?



- I can describe the movement of the Earth, and other planets, relative to the Sun in the solar system.
- I can describe the Sun, Earth, and Moon as approximately spherical bodies.
- I can describe the movement of the Moon relative to the Earth.
- 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 already know:

- In Unit 3 I learnt to recognise light from the sun can be dangerous and can find ways to protect my eyes. Also, I learnt that we need light in order to see things and that dark is the absence of light.

Our Key Vocabulary:

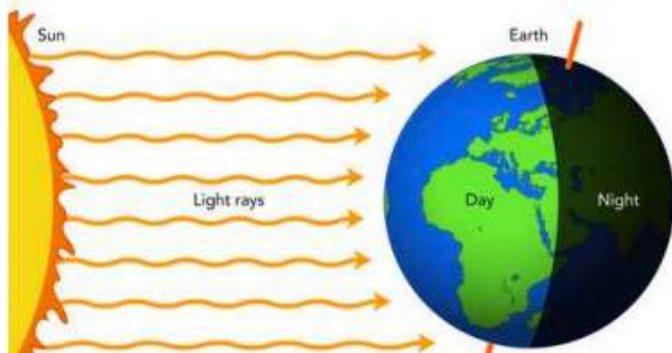
Word	Meaning
Solar system	The solar system consists of the Sun and everything that orbits, or travels around, the Sun.
Axis	An axis is an imaginary line an object turns around on. This imaginary line runs directly through the object's centre, from the north to the south poles.
Sphere	A round 3D shape in the shape of a ball.
Orbit	A curved path of a planet taken by one body circling around another body. The earth makes an orbit around the sun.
planets	A large object, round or nearly round, that orbits a star.
Moon	A natural satellite which orbits Earth or other planets.
Star	A giant ball of gas held together by its own gravity.
Sun	A huge star that Earth and the other planets in our solar system orbit around.
Satellite	Any object or body in space that orbits something else, for example: the Moon is a satellite of Earth.
Gravity	The force that attracts an object towards a larger object.

## Day and night

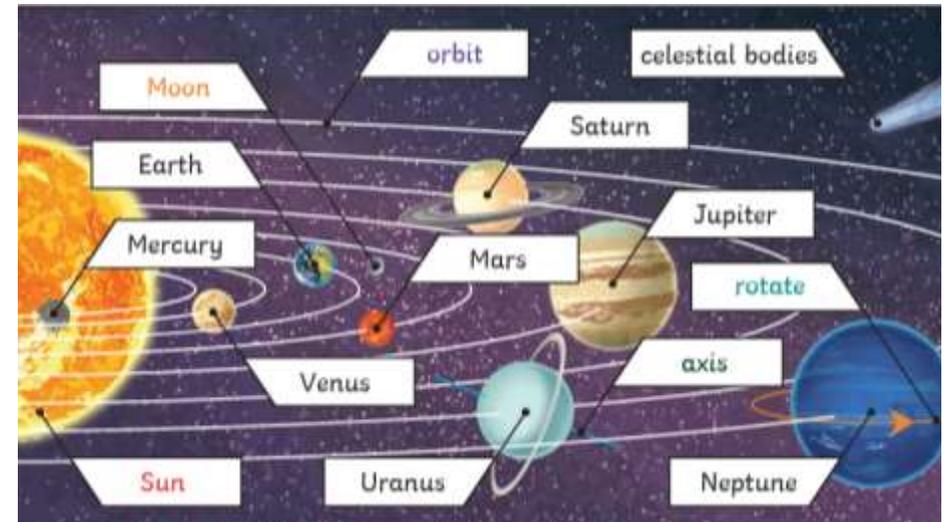
The Earth rotates one complete turn every 24 hours to give us day and night. Daytime occurs when the side of the Earth is facing the sun and night occurs when the side of the Earth is facing away from the sun. When Britain faces the Sun, it is daytime in Britain, but the other side of the world is in darkness. So, in Australia it is the middle of the night.

### Fun Fact:

It appears to us that the Sun moves across the sky during the day but the Sun does not move at all. It seems to us that the Sun moves because of the movement of the Earth.



## Our Solar System (not to scale)



An easy way to remember the names of planets in order is:

**My Very Easy Method Just Speeds Up Naming**  
**Challenge:** Can you make your own?

## The moon



The Moon orbits the Earth anti-clockwise and takes approximately **28 days**. The Moon spins once on its axis every time it orbits Earth. This means that we only see one side of the Moon. The Moon has different phases depending on where it is in its orbit. At different times, the moon appears to be different shapes because the sun light up different parts of the moon as it moves around the Earth. The Moon's gravity causes high and low tides.