

# Knowledge Organiser

Year 5

Term 1

Science

How do the sun, moon and earth affect my life?

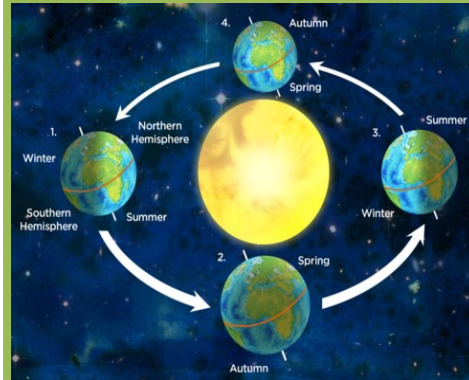
## Prior Knowledge & Learning

This topic builds on work done in Year 1 on the seasons where children observed changes across the 4 seasons and learnt about typical weather associated with each season and how day length changes. It also links with work done in Year 3 on light. Children should know that the sun gives us light and that darkness is an absence of light. They also learnt how shadows change in appearance and length due to the sun appearing to move across the sky.

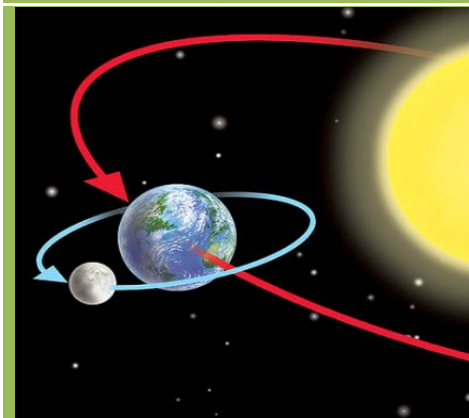
### Vocabulary

Word	Meaning
<b>solar</b>	Anything relating to the sun.
<b>moon</b>	A natural satellite which orbits a planet.
<b>star</b>	A giant ball of gas in space.
<b>axis</b>	An imaginary line around which something rotates.
<b>orbit</b>	The curved path of an object around a
<b>rotate</b>	Spinning in a circle around an axis.
<b>planet</b>	A large round or nearly round object that orbits a star.

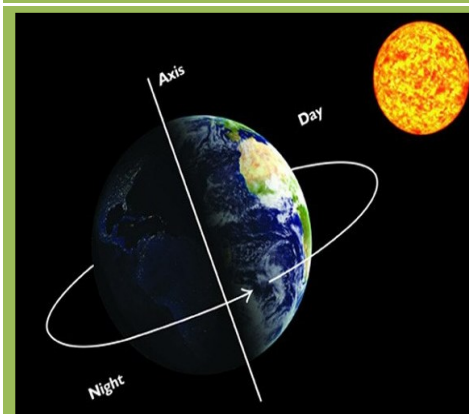
### Key Concepts



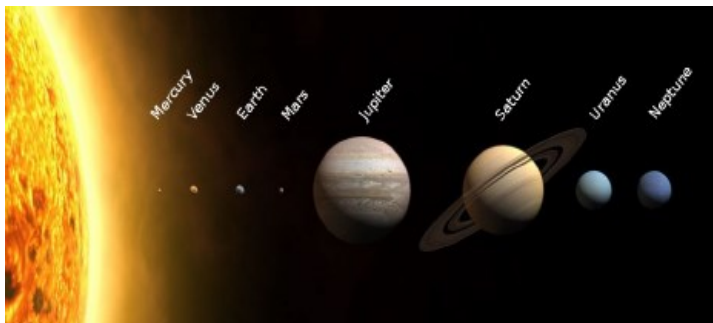
The earth orbits the sun on it's axis which takes one year. This causes the seasons.



The moon orbits the earth which takes 28 days. The sun shines on different parts of the moon which causes us to see the moon as different shapes.



The earth spins on its own axis which takes 24 hours. When the surface faces the sun this is day. When it faces away, this is night.



### Sticky Knowledge

The sun is much, much bigger than the Earth. The Earth is larger than the moon.

The earth continuously rotates, taking 24 hours to make one rotation. This rotation causes day and night.

The earth orbits the sun. There are 8 planets which do this and their order in relation to the sun never changes.

Earth orbiting the sun causes the seasons, due to the Earth tilting on it's axis . It depends where the earth is on its orbit as to how much daylight we get.

The moon orbits the earth. It takes 28 days to complete one orbit. Where the moon is in relation to the earth and sun causes the moon to look like different shapes which we call phases.

