

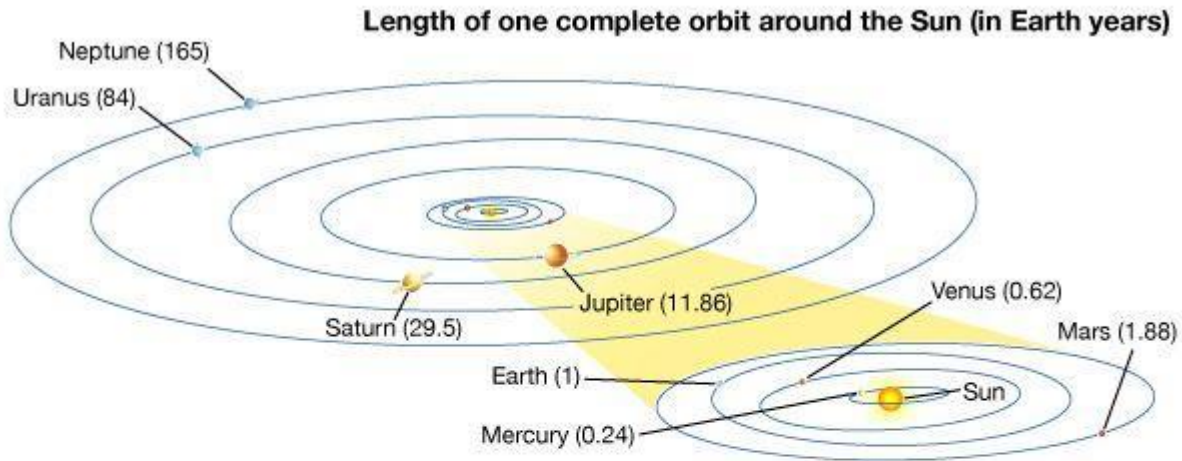
# Science Knowledge Organiser

## Year 5 Autumn (i)

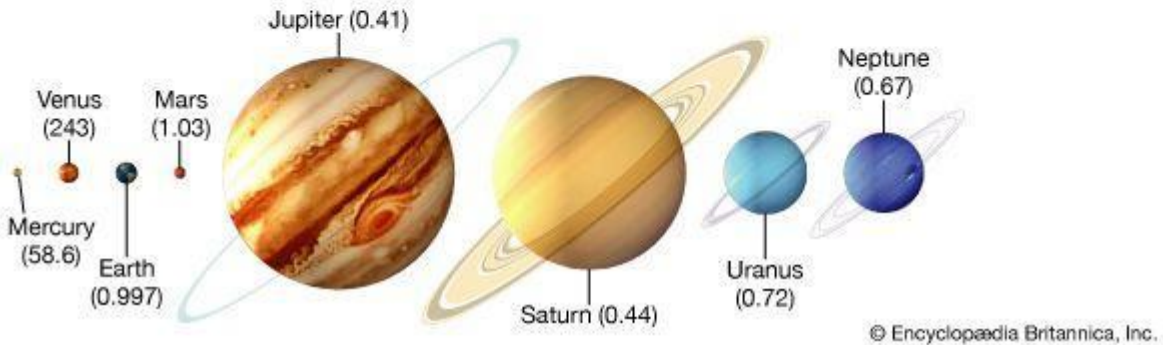
### How does the movement of the Earth influence our lives?

#### Substantive Knowledge- what will we learn?

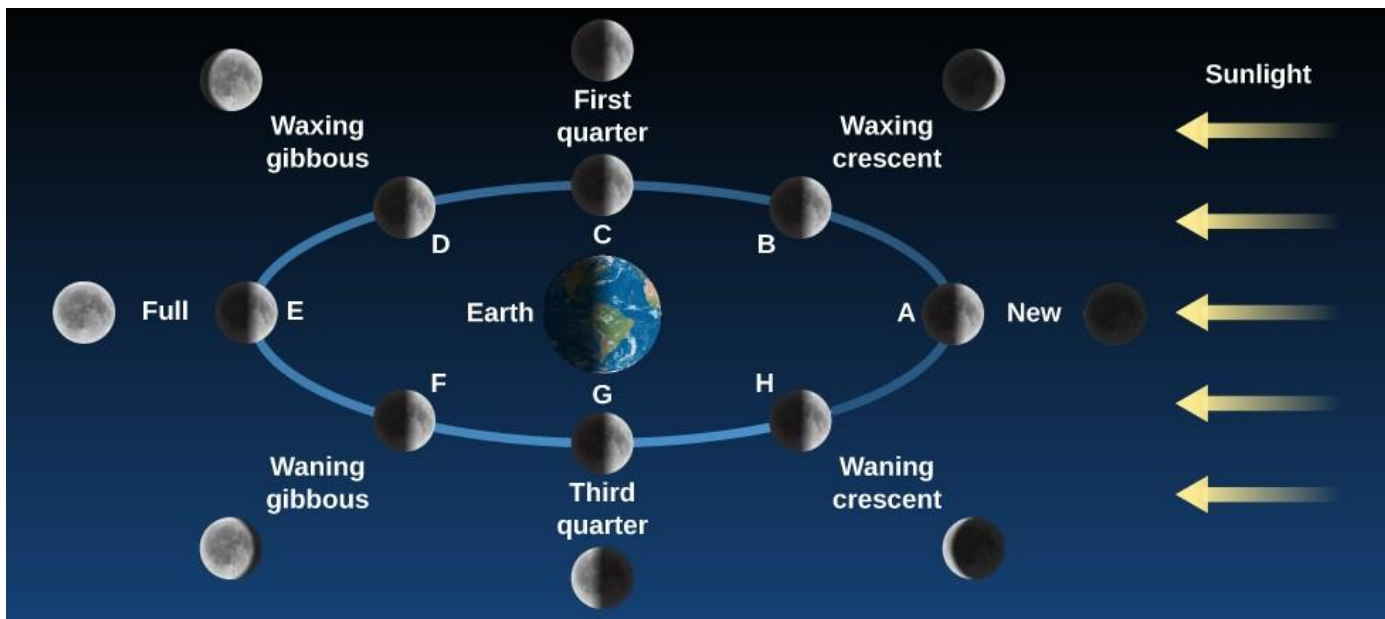
To know and describe the movement of the Earth, and other planets, relative to the Sun in the Solar System.



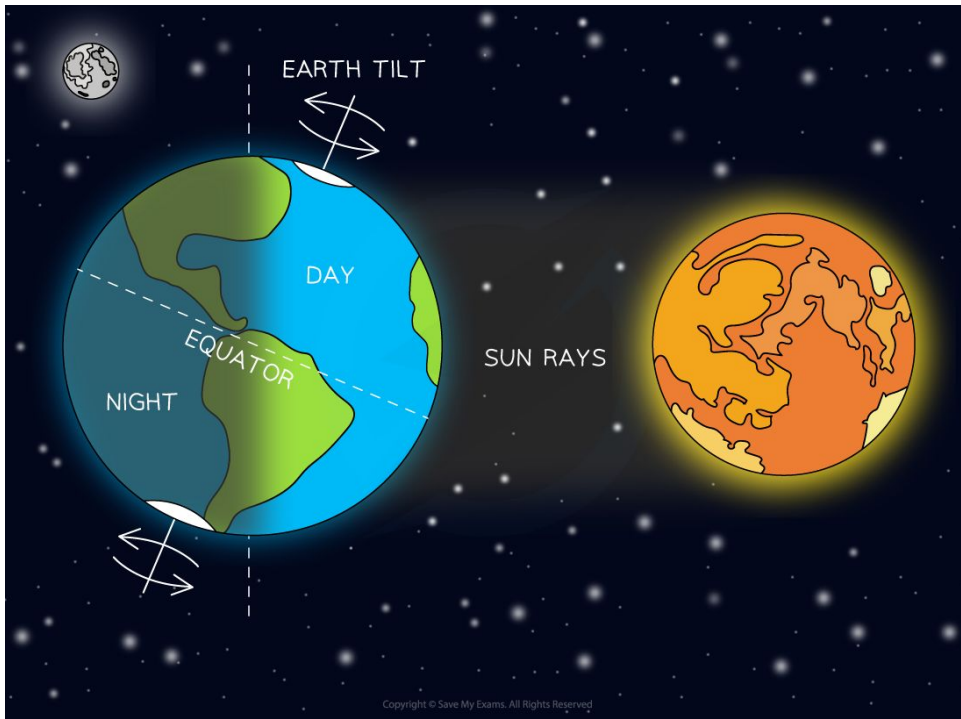
#### **Length of one complete rotation (in Earth days)**



To know and describe the movement of the Moon relative to Earth.



To explain day and night and apparent movement of the Sun across the sky using knowledge about the Earth's rotation.



The apparent movement of the sun across the sky is caused by the rotation of the Earth on its axis and its orbit around the sun. This rotation changes the angle at which light from the sun directs itself at the Earth. The path the sun makes across the sky during the day is known as the sun path, or day arc.

To know the Sun, Earth and Moon are approximately spherical bodies.

To identify scientific evidence which has been used to support or refute theory.



What are the arguments for a flat Earth?



## Flat Earth Versus Spherical Body

What are the arguments for a spherical Earth?



There have been many theories and scientific evidence over the years to settle this argument- what evidence can you find?

## Portable knowledge- what we need to remember:

The movement of the Earth relative to the Sun. The movement of the Moon relative to the Earth. The movement that the Sun, Earth and Moon are approximately spherical bodies. To explain day and night.

### Core Vocabulary

**axis**-an imaginary line about which a body rotates

**orbit**- the curved path of a celestial object or spacecraft round a star, planet, or moon, especially a periodic elliptical revolution.

**Solar (System)**-the collection of eight planets and their moons in orbit round the sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.

**sphere**- a round solid figure, or its surface, with every point on its surface equidistant from its centre.