Chacewater School – LEAP Into Learning – Spring 2 – Red Oaks
SCIENCE: Space and Earth

What I might already know: The sun doesn't move across the sky (year 3 – light)

KEY QUESTIONS:

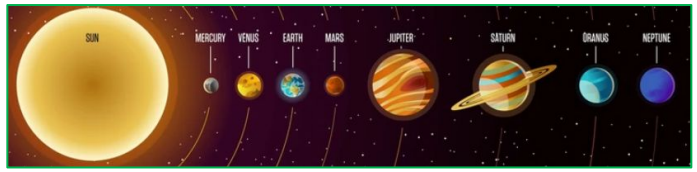
How do the Earth, Sun and Moon move in relation to each other?

How have our ideas about the solar system changed over time?

Is there a pattern between the size of a planet and the time it takes to travel around the Sun?

Key Vocabulary:

- Sphere
- Axis
- Orbit
- Universe
- Rotation
- Rotate
- Constellation
- Celestial body
- Asteroids
- Satellite



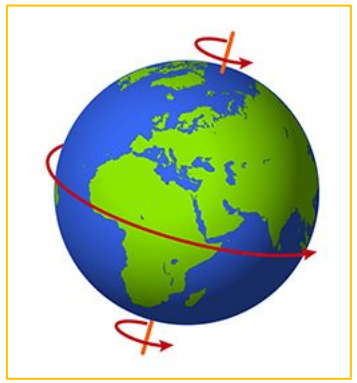
What we will be learning:

Earth rotates (spins) on its *axis*.

1 full spin = 24 hours

Daytime occurs when the side of the Earth is facing the sun

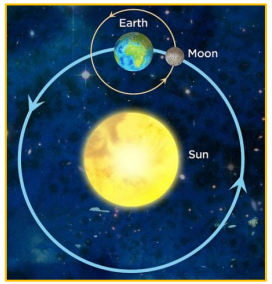
Night occurs when the side of the Earth is facing away from the sun.



The Sun doesn't move.

The solar system is heliocentric but in the past we thought it was geocentric.

Because the Earth is *rotating*, the sun appears to move across the sky as the day goes on.



The moon orbits Earth in an oval-shaped path whilst it spins on its axis.

At different times in the month the moon appears to be different shapes.

Key knowledge:

- ✔ The sun is a <u>star</u> at the centre of our solar system.
- ✔ The solar system has 8 planets which orbit the sun.
- ✔ It takes the Earth 1 year to complete its orbit of the Sun.
- ✔ The moon reflects light and does not produce its own light.
- ✔ The moon orbits the Earth which takes about 28 days.