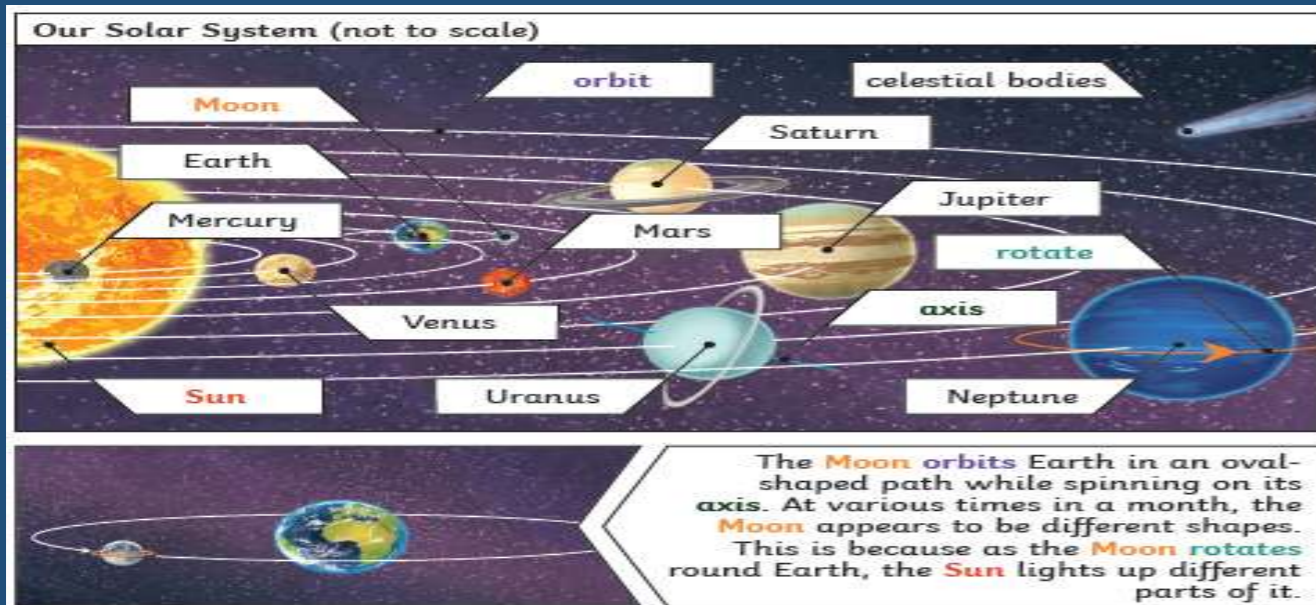


# Ideas Organiser: Space: Out of this World



## Knowledge:



**Key Knowledge**

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 movements of Earth.

Earth **rotates** (spins) on its axis. It does a full **rotation** once in every 24 hours. At the same time that Earth is **rotating**, it is also **orbiting** (revolving) around the **Sun**. It takes a little more than 365 days to **orbit** the **Sun**. Daytime occurs when the side of Earth is facing towards the **Sun**. Night occurs when the side of Earth is facing away from the **Sun**.

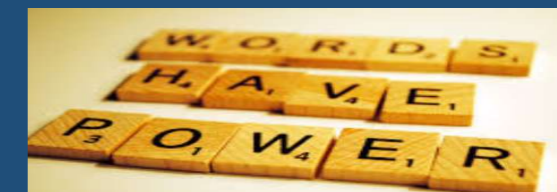
**Nicolaus Copernicus**

The work and ideas of many **astronomers** (such as Copernicus and Kepler) combined over many years before the idea of the **heliocentric** model was developed. Galileo's work on gravity allowed **astronomers** to understand how **planets** stayed in **orbit**.



## Vocabulary and background knowledge:

<b>Orbit</b>	To move in a regular, repeating curved path around another object.
<b>Axis</b>	An imaginary line which a body rotates around.
<b>Spherical Body</b>	An object in space which is the shape of a sphere.
<b>Sun</b>	A huge star which Earth and other planets in our solar system orbit.
<b>Star</b>	A giant ball of gas held together by its own gravity.
<b>Satellite</b>	Any object in space which orbits something else e.g. The Moon of a satellite of Earth.
<b>Rotate</b>	To spin e.g. Earth rotates on its own axis.
<b>Geocentric Model</b>	A belief which people used to have that the planets and the Sun orbited the Earth.
<b>Heliocentric Model</b>	The structure of the Solar System where the planets orbit the Sun.



## Recommended Reads:

