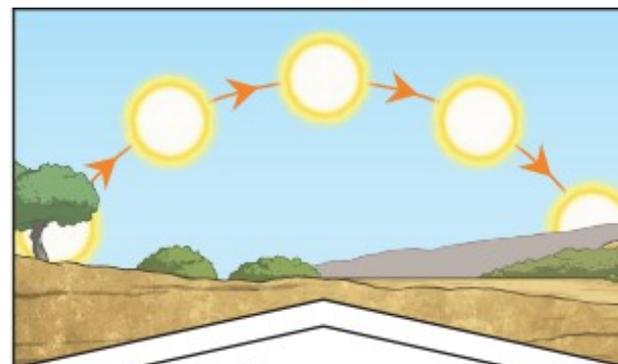


Forest Academy Upper Key Stage 2: Science Knowledge Organiser: Space

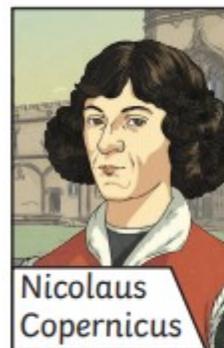
<i>Key Vocabulary</i>	
Sun	The huge star that Earth and the other planets in our Solar System orbit around.
Moon	A natural satellite which orbits Earth and other planets.
Mercury	Mercury is the smallest and innermost planet in the Solar System. Its orbit around the Sun takes 87.97 days.
Venus	Venus is the second planet from the Sun. It is named after the Roman goddess of love and beauty. Hottest in Solar System.
Earth	The third planet from the Sun. The planet on which we live.
Mars	Mars is the fourth planet from the Sun and the second-smallest planet in the Solar System. Sometimes called 'The Red Planet'
Jupiter	Jupiter is the fifth planet from the Sun and the largest in the Solar System. It also has the most moons orbiting it.
Saturn	Saturn is the sixth planet from the Sun and the second-largest in the Solar System, after Jupiter. It has a ring-system around it.
Uranus	Uranus is the seventh planet from the Sun. It is known, with Neptune, as an 'Ice Giant' It seems to have no storms or clouds.
Neptune	Neptune is the eighth and farthest known planet from the Sun and it takes 164.8 Earth Years to orbit the Sun just once.
Solar system	The Solar System is the gravitationally bound system of the Sun and the objects that orbit it, either directly or indirectly.
Spherical	A round 3D shape in the shape of a ball.
star	A giant ball of gas held together by its own gravity
rotate	To spin. E.g. Earth rotates on its own axis.
orbit	To move in a regular, repeating curved path around another object.
planet	A large object, round or nearly round, that orbits a star.
axis	An imaginary line that a body rotates around. E.g. Earth's axis (imaginary line) runs from the North to the South Pole.

Does the sun move across the sky?



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.

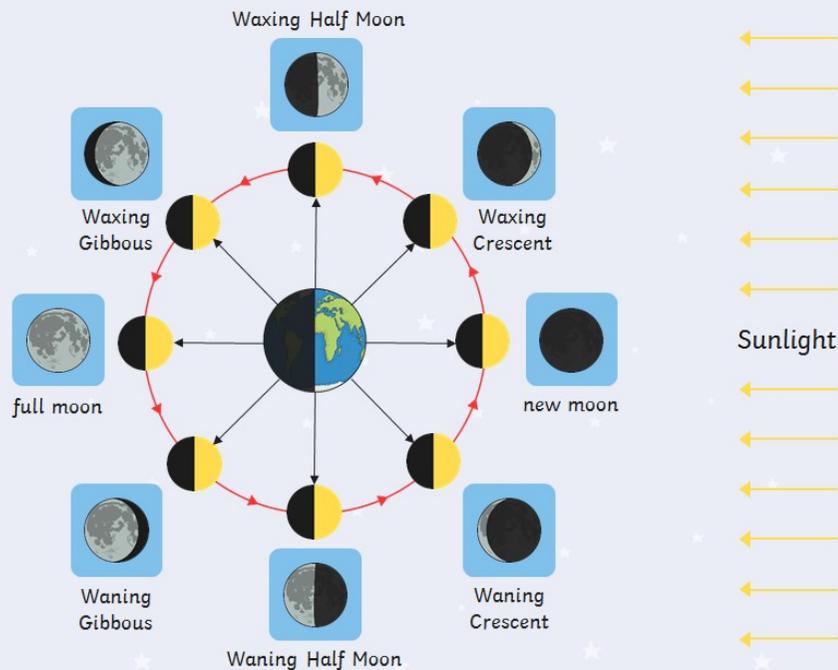
Nicolaus Copernicus



Nicolaus Copernicus

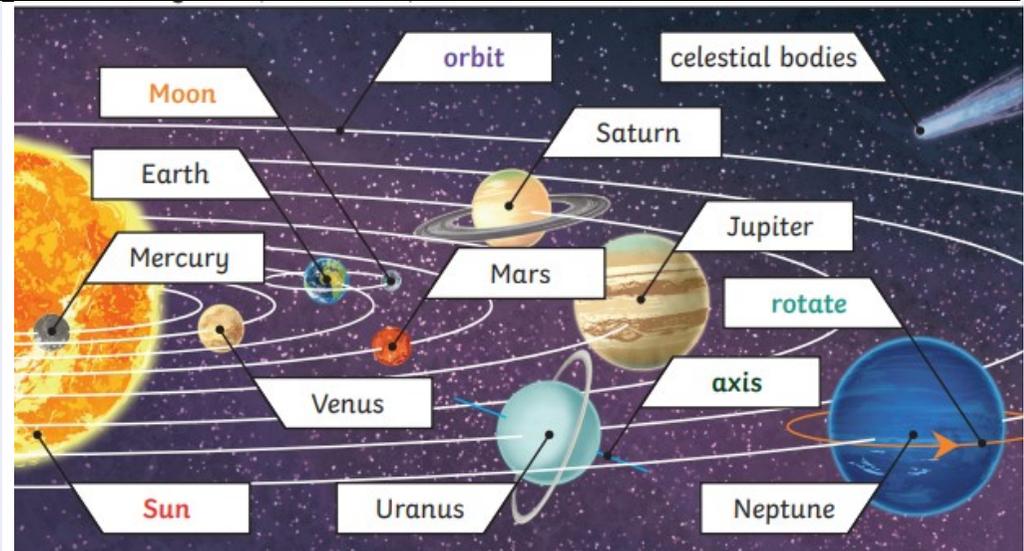
The work and ideas of many **astronomers** (such as Copernicus and Kepler) combined over many years before the idea of the **heliocentric model** was developed. Galileo's work on gravity allowed **astronomers** to understand how **planets** stayed in **orbit**.

Why can't I see the entire moon?



Waning means that we can see less of the Moon. **Waxing** means that we can see more of the Moon.

The Solar System



It can be quite difficult to remember the order of the 8 planetary bodies in our Solar System.

One way is to use mnemonics or a memory aid. This example is a sentence where each word begins with the first letter of each planet.

Mercury Venus Earth Mars Jupiter Saturn
 Uranus Neptune

Here is a mnemonic to help you remember the planets:
My Very Enthusiastic Mother Just Served Us Noodles!

Can you think of one of your own?



Forest Academy Upper Key Stage 2: Science Knowledge Organiser: Space

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