## **FORCES – RED SQUIRREL CLASS**

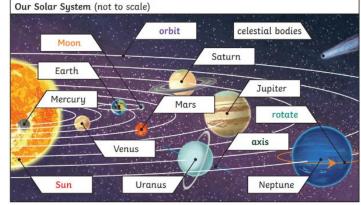
Key Vocabulary			
Sun	A huge star that Earth and the other planets in our solar system orbit around.	orbit	To move in a regular, repeating curved path around another object
star	A giant ball of gas held together by its own gravity.	rotate	To spin. E.g. Earth rotates on it own axis.
moon	A natural satellite which orbits Earth or other planets.	axis	An imaginary line that a body rotates around. E.g. Earth's <b>axi</b> (imaginary line) runs from the
planet	A large object, round or nearly round, that orbits a star.	geocentric model	North Pole to the South Pole. A belief people used to have tha
sphere	A round 3D shape in the shape of a ball.	goodentino instant	other planets and the Sun orbited around Earth.
spherical bodies	Astronomical objects shapes like spheres.	heliocentric model	The structure of the Solar System where the planets orbit around
satellite	Any object or body in space that orbits something else, for example: the Moon is a satellite of Earth.	astronomer	the Sun. Someone who studies or is an exper in astronomy (space science).



The Moon orbits Earth in an ovalshaped path while spinning on its axis. At various times in a month, the Moon appears to be different shapes. This is because as the Moon rotates round Earth, the Sun lights up different parts of it.

## Key Knowledge

Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.



Important people and places: Galileo

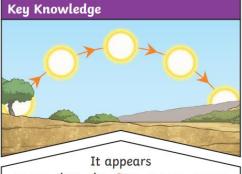
Nicolaus Copernicus

Kelper

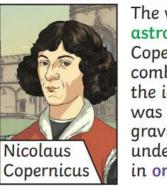
Links to previous learning:

 Famous scientists and inventors

• Forces



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.



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.

