Earth and Space

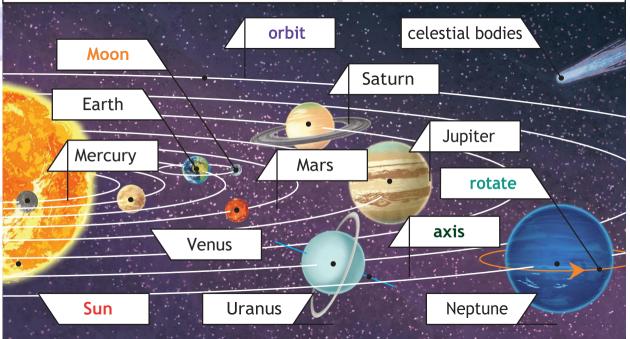
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Key Vocabulary				
Sun	A huge star that Earth and theother planets in our solar system orbit around.			
star	A giant ball of gas held together by its own gravity.			
moon	A natural satellite which orbits Earth or other planets .			
planet	A large object, round or nearly round, that orbits a star .			
sphere	A round 3D shape in the shape of a ball.			
spherical bodies	Astronomical objects shapes like spheres .			
satellite	Any object or body in space that orbits something else, for example: the Moon is a satellite of Earth.			

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.

Our Solar System (not to scale)



Pluto used to be considered a planet but was reclassified as a dwarf planet in 2006.





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.

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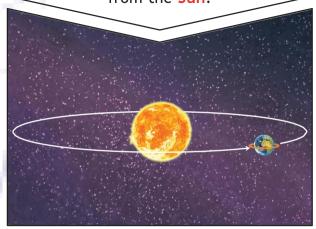
Key Vocabulary		Key Knowledge	
orbit	To move in a regular, repeating curved path around another object.		
rotate	To spin. E.g. Earth rotates on its own axis .		
axis	An imaginary line that a body rotates around. E.g. Earth's axis (imaginary line) runs from the North Pole to the South Pole.	It a to us that the the sky during the does not move a that the Sun mo movements of Ea	
geocentric model	A belief people used to have that other planets and the Sun orbited around Earth.		
heliocentric model	The structure of the Solar System where the planets orbit aroundthe Sun .		
astronomer	Someone who studies or is an expert in astronomy (space science).		

Key Knowledge

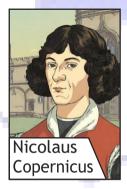
to us that the **Sun** moves across the sky during the day but the **Sun** does not move at all. It seems to us that the **Sun** moves because of the movements of Earth.



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. Ittakes a little more than 365 daysto 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.







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.

