



IVINGTON CE PRIMARY AND PRE-SCHOOL KNOWLEDGE ORGANISER



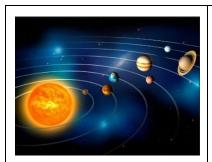
Reaching together... stand firm in your faith, be courageous and strong - 1 Corinthians 16:13

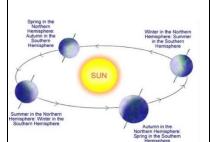
SUBJECT: Science YEAR: B TERM: Spring 1/2 YEAR GROUP: 6

EARTH AND SPACE

Previous Knowledge: We have four seasons (autumn, winter, spring and summer). The Sun is a source of light but the Moon is not. Know that a shadow is caused when an object blocks light from passing through it. To know some of the history of space travel.

Question/lesson aims	Vocabulary	Sticky Knowledge	Can I?
Spherical Bodies	Sun- A huge star that Earth and the other planets in our solar system orbit around.	Our Solar System (not to scale) orbit celestial bodies	I can explain why we know the Sun, Earth and Moon are spherical. The project of the spin title o
The Planets	Star - A giant ball of gas held together by its own gravity. Moon - A natural satellite	Earth Mercury Mars	I can identify scientific evidence which does or does not provide evidence for an idea or
Geocentric Versus Heliocentric	which orbits Earth or other planets. Planet- A large object, round or nearly round,	Venus axis	 argument. I can name and describe features of the planets in our solar system. I
Night and Day	that orbits a star. Sphere - A round 3D shape in the shape of a ball.	Sun Uranus Neptune The work and ideas of many astronomers (such as	can order the planets in our solar system. I can explain how planets move in our solar
Night and Day International	Spherical bodies - Astronomical objects shapes like spheres. Satellite - Any object or body in space that orbits	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.	system. I can identify scientific evidence which does or does
Movement of the Moon	something else, for example: the Moon is a satellite of Earth. Orbit- To move in a regular, repeating curved		not provide evidence for an idea or argument. I can explain day and night and the apparent







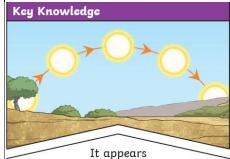
path around another object.

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.

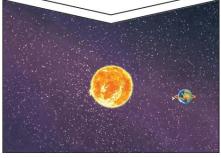
Geocentric modelbelief people used to have that other planets and the Sun orbited around Earth. Heliocentric model -The structure of the Solar System where the planets orbit around the Sun. Astronomer- Someone who studies or is an expert in astronomy (space science).





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.

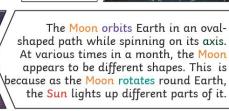
Mercury, Venus, Earth and Mars are rocky planets. They are mostly made up of metal and rock. Jupiter, Saturn, Uranus and Neptune are mostly made up of gases (helium and hydrogen) although they do have cores made up of rock and metal.

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

Key Knowledge



Geocentric model Years ago people believed that planet moved around the Earth.



- movement of the Sun across the sky.
- I can identify scientific evidence which does or does not provide evidence for an idea or argument.
- I can investigate night and day in different parts of the Earth, I can report and present findings from enquiries.
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- I can explain the movement of the Moon.

