Year 5 – Autumn 1 – Earth and Space – What if the Earth stopped spinning?			
<u>Key Vocabulary</u>		<u>Prior knowledge</u>	<u>Sticky Knowledge</u>
Sun	A huge star that Earth and the other planets in our solar system orbit around.	In Year 3, during the topic 'Light and Shadows' we: - Recognised that they need light in order to see things and that dark is the absence of light - Noticed that light is reflected from surfaces - Recognised that shadows are formed when the light from a light source is blocked by a solid object - Recognised that light from the sun can be dangerous and that there are ways to protect their eyes - Found patterns in the way that the size of shadows change When the light source is directly above the object, the shadow will appear on the opposite side. The shadow will also be longer. When the light source is directly above the object, the shadow will appear on the opposite side. The shadow be longer. Knowledge and Assessment - Describe the Sun, Earth and Moon as approximately spherical bodies - Describe the movement of the Earth, and other planets, relative to the Sun in the solar system - Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. - Describe the movement of the Moon relative to the Earth	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.
Star	A giant ball of gas held together by its own gravity.		Our Solar System (not to scale) orbit celestial bodies
Moon	A natural satellite which orbits Earth or other planets.		Moon Earth Jupiter Mercury Mars rotate axis Venus Neptune
Planet	A large object, round or nearly round, that orbits a star.		
Sphere	A round 3D shape in the shape of a ball.		
Satellite	Any object or body in space that orbits something else, for example: the Moon is a satellite of Earth.		The Moon orbits Earth in an oval shaped path while spinning on it axis. At various times in a month, the Moon appears to be different shapes. This is because as the Moon rotate.
Orbit	To move in a regular, repeating curved path around another object.		Rey Knowledge Earth rotates (spins) on its axis. does a full rotation once in ever 24 hours. At the same time the Earth is rotating, it is also orbitin (revolving) around the Sun. Daytime occur when the side of Earth is facin towards the Sun. Night occurs when the side of Earth is facin towards the Sun. Night occurs when the side of Earth is facin towards the Sun. Night occurs when the side of Earth is facin towards the Sun. Night occurs when the side of Earth is facing away from the Sun. It seems to us that the Sun moves because of the movements of Earth.
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	A belief people used to have that other planets and the Sun orbited around Earth.		
Heliocentrio model	The structure of the Solar System where the planets orbit around the Sun.		

