
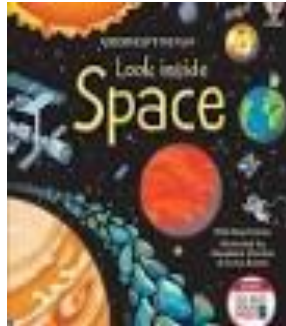
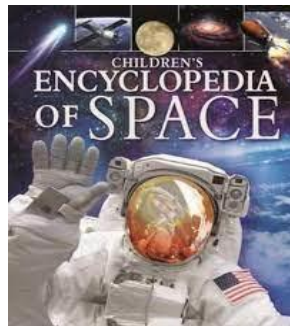





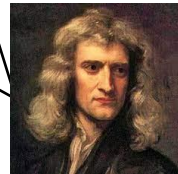


# Broomwood Primary School Knowledge Organiser



## UKS2 Adventures in Space -Physics

Subject Specific Vocabulary		Memorable Image	Exciting Books		
Solar system	The sun together with the group of celestial bodies that are held by its attraction and revolve around it.		 		
Orbit	To make a circuit around.				
Rotate	To turn around on an axis or central point.				
Satellite	A celestial body orbiting the Earth or another planet.	Sticky Knowledge		Scientist	
Moon phases	Different ways the moon looks from Earth over the course of a month.	<p>I know know that the Earth spins once around on its own axis in 24 hours giving us night and day.</p> <p>I know that the Earth orbits the sun in one year.</p> <p>I know how seasons are formed.</p> <p>I know about sundials and astronomical clocks - stone henge.</p> <p>I know and can name the different planets within the milky way in relation to the Sun.</p> <p>I know how the force of gravity acts within the solar system.</p> <p>I know how the force of gravity acts on a falling objects.</p> <p>I know the movement of the moon in relation to Earth.</p> <p>I know that the moon orbits the Earth in approximately 28 days and how the appearance of the moon changes.</p> <p>I know that the Earth takes 365.25 days resulting in a leap year every four years.</p> <p>I know about time zones across the world and how to predict what time it will be in a different country.</p> <p>I know that the Sun appears to move across the sky from East to West.</p> <p>I how shadows change throughout the day and time of year.</p> <p>I know that we see the moon because the Sun's light reflects of its surface.</p> <p>I know that the Sun, Earth and Moon are spherical bodies.</p>		 <p>My name is Nicholau<sup>s</sup> Copernicus and I proposed that the Sun was the centre of the universe.</p>	 <p>My name is Peggy Whitson and I hold the record for the most days spent in space by a female of 666 days.</p>
Axis	The imaginary line around which an object spins.				
Spherical	Something that is shaped like a sphere.				
Time zone	Different places in the world have different times. There are 24 due to the Earth's rotation.				
Gravity	A force that acts downwards, pulling objects towards the centre of the Earth.				
Astronomical	The study of astronomy involves all the objects outside Earth's atmosphere.				
Eclipse	This happens when one object in space blocks another from view.				
Crescent moon	When the Moon appears early in its first quarter or late in its last quarter, only a small arc-shaped section is visible and illuminated by the Sun.				
Gibbous moon	This is a phase in a moon when is it illuminated by the Sun and more than half is visible.				
Planet	Large, natural objects that orbit, or travel around, stars.				
Lunar	The different shapes of the lit-up portion of the moon that can be seen from the Earth.				

 <p>My name is Eileen Collins and I was the first female astronaut to pilot a U.S space shuttle.</p>		 <p>My name is Isaac Newton and I formulated the theory of universal gravity .</p>	
Previous Learning			
<p><u>In EYFS:</u> I know the Sun, Moon and Stars are in the sky above me. I know the difference between day and night.</p> <p>Other than the location the Sun, Moon and Stars in EYFS, this is a new area of learning and should therefore be taken into consideration when planning.</p>			