



Castle Hill Primary School Knowledge Organisers		Year 5 Spring 2 Earth and Space	
orbit	To follow a path around some object. The planets orbit the Sun. The Moon orbits the Earth.	Moon	A small world that orbits a larger one.
rotation	To turn or spin.	Phases of the Moon	The changing shape of the Moon's shadow through a month.
Solar System	The part of the universe that has our Sun at the centre.	Eclipse	The shadow made when the Moon comes between the Sun and the Earth.
Planet	A world that is in orbit around a sun. There are nine planets orbiting our sun.	Energy	The ability to make things happen.
Cosmic	Related to space.	Sequence of Planets from Sun 1. Mercury - Smallest planet 2. Venus - The largest in the sky from earth 3. Earth – The only planet with water on its surface 4. Mars- known as the 'Red Planet' ASTEROID BELT 5. Jupiter – the largest planet, a gas giant 6. Saturn – famous for its rings, a gas giant 7. Uranus – a gas giant 8. Neptune - blue in colour due to high methane levels 9. Pluto- This is used to be a planet but is now known as a 'Dwarf Planet' Mnemonic to recall the order of planets "My Very Easy Method Just Speeds Up Naming Planets"	Famous Astronauts Yuri Gagarin – First man in space on the VOSTOK 1 spacecraft (1961) Alan B Shepherd Jr- First American in space on FREEDOM 7 spacecraft (1961) Valentina Tereshkova – First woman in space from Russia on VOSTOK 6 (1963) Neil Armstrong (America) - First man on the Moon in APOLLO 11 (1969) Tim Peake – most recent Briton to go into space (2015).
Galaxy	A collection of star systems.		
Sun	The star at the centre of the Solar System.		
Lunar	Relating to the moon.		
Universe	Everything that is known in space. The Solar System is only a tiny part of the Universe.		
Spherical	Shaped like a sphere.		
Satellite	Any celestial body orbiting around a planet or star.		
Celestial Body	An object in space.		
Asteroid	A rocky fragment in our Solar System. Most asteroids lie between the orbits of Mars and Jupiter.		
comet	A small body of ice and rock that orbits the Sun. They have been likened to huge, dirty snowballs.		
Gravity	A powerful pulling effect produced by all the planets and star.		
Season	A part of the year - spring, summer, autumn or winter.		
Star	A burning mass of gas.		
			Time Facts It takes 28 days for the moon to orbit Earth. It takes 365 and ¼ days for the Earth to orbit the sun. It takes 24 hours for the Earth to rotate on its axis once. Every four years we have an additional day on February 29 th – this is called a leap year .

