
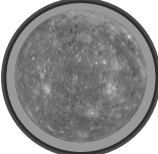




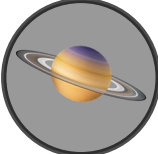



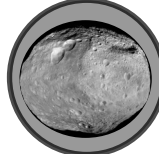


Year 5: Earth and Space

THE SOLAR SYSTEM:

										
The Sun	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	The Moon	Asteroid
The sun is a star. A star is an exceptionally hot ball of gas, originally made from hydrogen and helium.	The smallest planet in the Solar System. Length of Day: 58d 15h Length of Year: 88d	The second planet from the sun; named after the Roman goddess of love and beauty. Length of Day: 116d 18h Length of Year: 225d	The third planet from the Sun and the only planet known to harbour life and sustain liquid surface water Length of Day: 24h Length of Year: 365d	The fourth planet from the sun and the second-smallest planet in the Solar System Length of Day: 24h 37m Length of Year: 687d	Jupiter is the fifth planet from the Sun and the largest in the Solar System. It is a gas giant. Length of Day: 9h 56m Length of Year: 12y	Saturn is the sixth planet from the Sun and the second-largest in the Solar System. Length of Day: 10h 34m Length of Year: 29y	The seventh planet from the Sun. It's named after the Greek god of sky. Length of Day: 17h 14m Length of Year: 84y	The eighth planet from the Sun and the farthest known solar planet. The fourth largest planet by diameter. Length of Day: 16h 6m Length of Year: 165y	The Earth's only natural satellite. As parts are lit up by the sun, we see it as a different shape during the lunar cycle process.	A minor planet, usually a large piece of rock or ice, in the inner solar system. Size and shapes of asteroids vary significantly.

SATELLITES:

Humans have sent man-made satellites into orbit that assist with telecommunication



WHAT:

Night and day are a result of the Earth rotating on its axis.

The tilt of the Earth towards and away from the Sun's light as the Earth orbits the Sun leads to the seasons as during winter the light is spread over a wider area.

A solar eclipse occurs when the Moon is between the Sun and the Earth, casting a shadow on the Earth; a lunar eclipse occurs when the Earth is between the Sun and the Moon, casting a shadow on the moon.

The universe comprises all matter and space in existence.

A celestial body is a large object in the universe
The universe is utterly vast and that our solar system makes up a tiny fraction of the universe.

ORBITTING:

It was once thought everything orbited the Earth, but that scientists like Copernicus and Galileo used telescopes and measurement to show that the Earth orbited the Sun.

All planets in the solar system orbit the Sun and that the further away they are from the Sun, the longer their orbit.

KEY VOCABULARY:



ASTEROID: a rock that orbits the Sun in a belt between Mars and Jupiter



ECLIPSE: a blocking of light by a planet or satellite.



AXIS: an imaginary line through the middle of something



GALAXY: an extremely large group of stars and planets. Our galaxy is called the Milky Way



CELESTIAL BODY: relating to the sky or outer space



LUNAR: determined by, or resembling the moon.



CONSTELLATION: a group of stars forming a recognisable pattern



MOON: the natural satellite of the Earth



COMET: a bright object with a long tail that travels around the sun.



ORBIT: the curved path in space that is followed by an object going around a planet, moon, or star.



PLANET: a large round object in space that moves around a star.



ROTATION: the spin of an object about an axis



SATELLITE: an artificial body placed in orbit round the earth or moon or other planet



SOLAR: determined by, or relating to the sun



SOLAR SYSTEM: the Sun and all the planets that go around it



SPHERE: an object that is round in shape like a ball



STAR: a large ball of burning gas in space.



TELECOMMUNICATION: communication over a distance by cable, telephone or broadcasting



TELESCOPE: an optical instrument designed to make distant objects appear nearer.



UNIVERSE: the whole of space and all the stars, planets, and other forms of matter and energy in it

