

Stargazers



To know the names of the planets in the solar system the way they move and what they are made of.	To describe the force of gravity and test how it acts on a range of objects, recording data and presenting results accurately.	To know what a moon is and describe the phases of the moon.	To know how to compare maps, aerial photos and satellite pictures of Earth.	To explain how we get night and day on planet Earth.	To understand what the great Space Race was and how it originated.
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Key Vocabulary

- Planets
- Solar system
- Space station
- Astronaut
- Astronomy
- Observatory
- Space race
- Crater
- Apollo 11
- Lunar
- Orbit
- Star
- Universe
- Moon
- Satellite
- Aerial
- Gravity

The Earth is part of a solar system with 7 other planets orbiting around the Sun. The four planets closest to the Sun are called the terrestrial planets and are made up almost entirely of rock. The four planets furthest away from the Sun are called Jovian planets and are mostly gas.



An **aerial photograph** is taken of an area from a **birds-eye view**, for example by a plane or a satellite. It shows the real world at a specific moment. A map is a representation of the real world. We can compare the photograph of an area to the same area shown on a **map**, and look for similarities and differences.



Gravity is a force that pulls objects toward each other. On Earth, gravity pulls objects towards its centre and keeps everything on the ground. Gravity keeps the Moon in orbit around the Earth and the planets in orbit around the Sun. Is there any gravity in space?



Night and day occurs because the Earth rotates on its axis. As the Earth rotates, the part of the planet that faces the Sun experiences daytime. The part of the Earth that faces away from the Sun experiences darkness and night-time.



The Moon is a natural satellite that is 384,400km away from Earth. It orbits the Earth every 27 days. The surface of the moon is covered in craters. There is no atmosphere or life on the Moon. The Moon reflects the light of the Sun and looks different every day.



The Space Race was a competition between the Soviet Union (USSR) and the United States that took place in the 1950's and 1960's when the two countries were involved in a war called the Cold War. The main aim of the Space Race was to be the first to go into space and reach the Moon.



