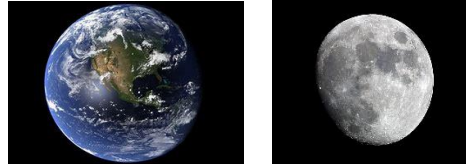
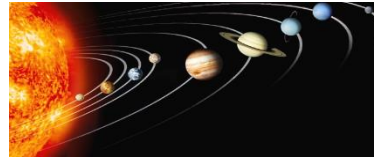


# Highgate Community Primary School – Year 5 Earth and Space

## Vocabulary

<b>Orbit</b>	The path of a celestial body
<b>Rotation</b>	To turn or spin
<b>Solar System</b>	A star and everything that travels around it
<b>Planet</b>	A celestial body that revolves around the Sun
<b>Cosmic</b>	Related to space
<b>Sun</b>	The star at the centre of a solar system
<b>Lunar</b>	Relating to the Moon
<b>Universe</b>	Everything that exists anywhere
<b>Spherical</b>	Shaped like a sphere
<b>Satellite Any</b>	Celestial body orbiting around a planet or star
<b>Celestial Body</b>	An object in space



Tim Peake



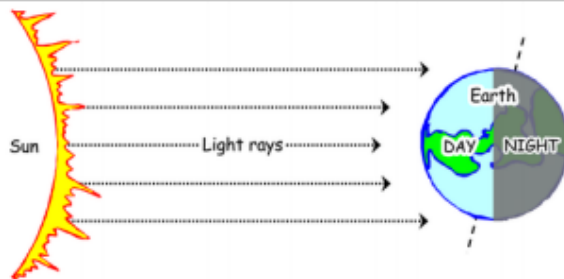
Neil Armstrong



## Key Facts

- Know the shape of the Sun, Earth and Moon and how we can prove it.
- Know what the solar system is and what the other planets are.
- Know how the solar system changed over time.
- Know how about the Earth's rotation and be able to explain day and night.
- Know how and why shadows change over the course of a day.
- Know how the movement of the Moon relates to movement of the Earth and other planets.

## Day and Night Diagram



## Key Knowledge

- It takes 28 days for the Moon to orbit the Earth - It takes 365 and 1/4 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 Feb 29th – this is called a leap year.
- The Planets:** **Mercury** – the smallest planet **Venus** – the largest in the sky from earth **Earth** – the only planet with water on its surface **Mars** – Known as the 'Red Planet' **Jupiter** – the largest planet, a gas giant **Saturn** – famous for its rings, a gas giant **Uranus** – a gas giant **Neptune** – blue in colour due to high methane levels **Pluto** – This *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"
- Significant Dates:** 1951 First Dog in space – Laika/ 1961 First man in space Yuri Gagarin/ 1969 First moon landing - Apollo 11
- Famous Astronauts:** **Yuri Gagarin** – First man in space VOSTOCK 1 spacecraft (1961) **Valentina Tereshkova** – First woman in space from Russia on VOSTOCK 6 (1963) **Neil Armstrong** – First man on the moon in APOLLO 11 (1969) **Tim Peake** – most recent Briton to go into space (2015)

