

Knowledge Organiser—Year 5

“How did humans manage to travel to Space?”

Vocabulary

Galaxy— a system of millions or billions of stars, together with gas and dust, held together by gravitational attraction.

Solar system — the collection of eight planets and their moons in orbit round the Sun, together with smaller bodies in the form of asteroids, meteoroids, and comets.

Planet — a celestial body moving in an elliptical orbit round a star.

Star — a fixed luminous point in the night sky which is a large, remote incandescent body like the Sun

Orbit — the curved path of a celestial object or spacecraft round a star, planet, or moon.

Moon — the natural satellite of the earth, visible (chiefly at night) by reflected light from the Sun.

Spacecraft — a vehicle used for travelling in space.

Astronaut — a person who is trained to travel in a spacecraft

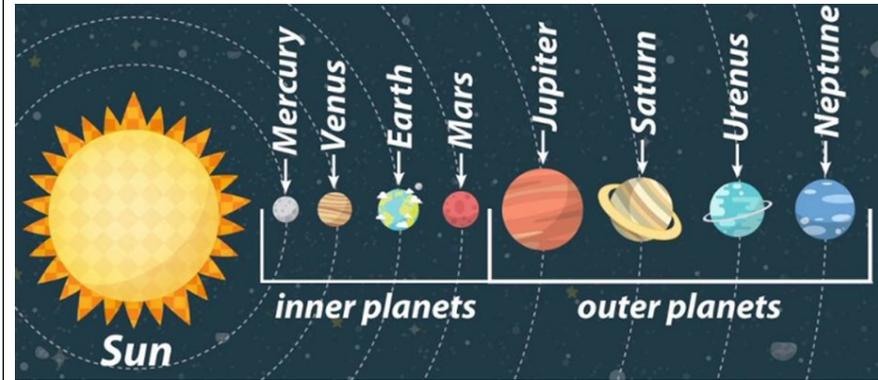
Odyssey —A long and eventful or adventurous journey or experience.

Atmosphere—The mixture of gases that surround a planet.

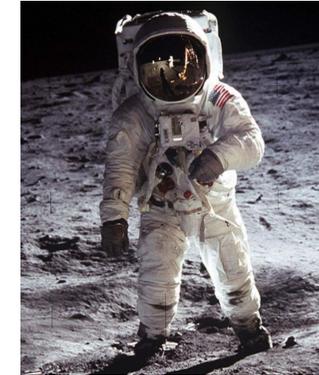
Satellite—A body that revolves around a planet (such as a moon).

Axis—An imaginary line through the centre of a spinning object.

The Solar System



Neil Armstrong



Key facts

The Solar System was formed around 4.6 billion years ago.

The Earth is a sphere, or ball, which spins round and round as it travels around the Sun. One side of the Earth faces the Sun while the other side faces away into space.

Neil Armstrong was the first human to walk on the moon during the NASA (National Aeronautics and Space Administration) Apollo 11 mission on 20th July 1969. He completed the mission alongside co-pilots Edwin E. “Buzz” Aldrin and Michael Collins.

The closest planet to the sun is Mercury, but Venus is the hottest planet in the solar system. Venus has an

Approximately 1.3 million Earths could fit inside the Sun.

A single day on Venus is almost as long as a single Earth year. It takes 243 Earth days for Venus to complete one orbit that would be a day.

A **mnemonic** is a trick to help you remember something. My Very Educated Mother Just Served Us Noodles is a mnemonic to remember the order in which the planets orbit round the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.

Laika, a mixed-breed dog, was the first living being in orbit. She was launched on the Soviet Union's Sputnik 2 mission in November 1957 .