

# Out of This World- Year 1

In this topic, children will learn about the planet which they live on. They will learn about the geography of the planet. Pupils will then find out about the history of space travel, looking at sources to investigate the space race and moon landing on 1969. They will then find out about how space travel has changed since then. Pupils will then find out what it is like on the moon, before using their DT skills to design and make a moon buggy. Finally, they will program Bee Bots, controlling it to move around and to explore the moon's surface.

By the end of this unit, I will know:

- That we live on the planet Earth.
- The Earth is a special place as there is no other known planet which has life.
- That there are 7 continents and 5 oceans which make up the Earth.
- That some places are hot and some are cold depending on how close to the equator that they are.
- There is no water and no air on the moon. No life can survive there; no plants or animals.
- The Moon's surface has lots of craters and mountains, it is very dusty and rocky.
- That we can use different sources of information to help us find out about the past.
- Neil Armstrong was the first man on the moon in 1969.
- Neil travelled to the moon on a mission called Apollo 11 with two other astronauts: Buzz Aldrin and Michael Collins.
- Russia and the USA were in a race to be the first country to reach the moon. This was known as the 'space race.'
- Many people watched the first steps on the moon on TV and people had parties to celebrate.

Core Texts:



Key Geography Skills:

- Understand that some places are hot and some places are cold and name some of these including the Poles.
- Name the 7 continents and 5 oceans of the world.
- Ask simple geographical questions about places studied.
- Use basic geographical vocabulary to refer to physical characteristics of places studied. Eg) beach, sea, river.
- Use globes to identify the continents and oceans.

Key History Skills:

- Use a simple timeline to place important events.
- Look at objects from the past and ask/answer simple questions.

Key DT Skills:

- Think of own ideas for design.
- Use pictures and words to plan.
- Design a product with guidance, following design criteria.
- Use simple construction materials to make a vehicle.
- Attach wheels to a chassis using an axle, e.g. cotton reels and dowel.
- Use pencils or tubes as rollers to move an object across the floor.
- Say whether their product does what it is meant to and how it could be improved

Key Computing Skills:

- Carry out a sequence using single command, one at a time e.g. forwards, backwards and turn.
- Programme the Bee-Bot to get from one point to another along a specific route.
- Make sensible predictions about where a Bee-Bot may stop from a simple set of instructions.

## Key Vocabulary

continent	one of the world's main continuous expanses of land.
ocean	a large body of water.
equator	an imaginary line which goes around the centre of the Earth.
globe	a spherical model of the Earth.
Earth	the planet we live on.
space race	the race between USA and Russia to be first to land on the moon.
Polar Region	parts of the Earth furthest from the equator. These regions are very cold.
Moon	The natural satellite of the Earth, visible by reflected light from the sun.
orbit	An orbit is a repeating path that one object in space takes around another.
crater	A hole in the surface of the moon.
mission	An important assignment given to a person or group of people, usually travel related.
explorer	A person who goes to a new area.
astronaut	A person who is trained to travel in a spacecraft.
spacecraft	A vehicle used for travelling in space – shuttle/rocket.
voyage	A long journey involving travel by sea or in space.
commander	The captain of the space shuttle.
descend	Come back down to Earth.
launch	When a space shuttle sets off from Earth into space.
gravity	A force which pulls things into the centre of the Earth.

