



**Year: 5**

**Term: Autumn 1**

**Term**

## Out of This World!

### Background Information

This is a science based topic so we will be spending a lot of time exploring our universe and investigating scientific theories through different experiments and a wide variety of activities. We are teaching this to broaden children's understanding of the wider, scientific universe and the ways in which the earth supports human life. In geography, we will explore similarities and differences through studying the human and physical geography of a region in the UK compared with a region in North America.



### Key Vocabulary

Word	Meaning
Orbit	The curved path of a celestial object or spacecraft round a star, planet, or
Axis	A real or imaginary straight line going through a spinning object
Northern/Southern Hemisphere	The <i>hemispheres</i> of the Earth refer to any division of the globe into ... <i>North-South</i> .
Phases of the Moon	The Moon changes its apparent shape with four distinct phases depending on the Moon's position as it orbits around the Earth, and the Earth's position as it orbits around the Sun.
Lunar	The moon
Light Years	a unit of astronomical distance equivalent to the distance that light travels in

### Killer Facts!

By the end of this topic the children will be able to:

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system through creating a 2D solar system model
- describe the movement of the Moon relative to the Earth through kinaesthetic, outdoor activities.
- describe the Sun, Earth and Moon as approximately spherical bodies through scientific experiments
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky through an investigation involving torches and globes.
- Described how historical events have affected and influenced life today
- Make accurate use of specific dates and terms and subject specific vocabulary.

### Did you know?

- \* One million Earths could fit inside the sun – and the sun is considered an average-size star.
- \* Comets are leftovers from the creation of our solar system about 4.5 billion years ago – they consist of sand, ice and carbon dioxide.
- \* If you could fly a plane to Pluto, the trip would take more than 800 years!
- \* The highest mountain known to man is on an asteroid called Vesta. Measuring a whopping 22km in height, it is three times as tall as Mount Everest!

