



Sacred Heart Primary School

Curriculum Theme Plan

EARTH AND SPACE

YEAR 5 : TERM 3



Rationale: In order to address the skills and knowledge as outlined in the national curriculum. The topic of Earth and Space is age appropriate for Year 5; it engages all children, is a subject that fascinates and motivates them. Careful planning ensures cross curricula links.

Pre-Unit task: Class brainstorming session

- What we know about Earth in Space - Focus on earth in relation to the sun, night and day, why the Moon changes shape and what do we know about shadows.
- What we would like to find out more about

Learning Objectives:

Pupils should be taught to:

- describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- describe the movement of the Moon relative to the Earth
- describe the Sun, Earth and Moon as approximately spherical bodies
- use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
- To identify scientific evidence that has been used to support/ refute arguments.

Curriculum Links: Writing opportunities

Overview:

Lesson 1: Spherical Bodies

Lesson 2: The Solar System

Lesson 3: Comparing the Planets

Lesson 4: Night and Day

Lesson 5: The Moon

Lesson 6 : The Lunar Cycle

SMSVC Links

Appreciation of the extent of God's creation
Co-operative learning,

Resources (found in Forces Topic Box and Science store)

Planets model x2
Range of information books and posters

Impact/Assessment

Most Children will be able to:

- Name the planets in the solar system.
- Distinguish between heliocentric and geocentric ideas of planetary movement.
 - Explain that day and night is due to rotation of the Earth.
- Support the idea that different places on Earth experience night and day at different times with evidence.
- Explain how the Moon moves relative to the Earth.

Less Able Children will be able to:

Describe the Sun, Earth and Moon as spherical.

- With support name the planets in the solar system.
- Explain how the planets orbit the Sun.
 - Explain how night and day occur.
- Make predictions about night and day in different places on Earth.
- Explain that the Moon orbits the Earth not the Sun.

More Able Children will:

Name at least two different shapes the Earth was thought to be.

- Identify scientific evidence that has been used to support or refute ideas.
 - Describe some features of the planets.
- Place the planets in the solar system in the correct order and explain theories of planetary movement in the solar system.
- Explain using evidence how night and day occur.
- Explain why night and day occur at different times in different places on Earth.
- Explain how the Earth and Moon move relative to the Sun. ..