

Leintwardine Endowed CE Primary School Learning Journey Itinerary

'Letting Our Light Shine'

SUBJECT : Science - Space

YEAR : A

TERM : 1

YEAR GROUPS : 5-6

Key Question : What is a heliocentric view of the earth?

Previous Knowledge – We would expect children to already be able to:
 Some children may know names of planets from previous years Science
 Have an idea what gravity is and how it works
 Name the planets
 Understand why and how day and night happen
 Have an opinion of the earth being flat or spherical

END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are **emerging** because they can:

Most children will show that they have reached the **expected** level because they can:

Some children will have gone beyond the expected level and will show that they are **exceeding** because they can:

Identify scientific evidence with support.
 Name the planets in the solar system with support.
 Explain how the planets orbit the Sun.
 Explain how night and day occur.
 Make predictions about night and day in different places on Earth.
 Report and present findings from enquiries with support.

Describe the Sun, Earth and Moon as spherical.
 Name the planets in the solar system independently.
 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.
 Report and present findings from enquiries.
 Explain how the Moon moves relative to the Earth.

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
 Explain why night and day occur at different times in different places on Earth.

ASSESSMENT OPPORTUNITIES

Visit to the observatory Knighton
 Space dome activity

ENRICHMENT OPPORTUNITIES Helping children to remember more

SUBJECT SPECIFIC VOCABULARY

CROSS-CURRICULAR LINKS

Links that we can make to help children make sense of what we want them to know and be able to do.

Investigations using scientific equipment.
 Practical experiences – observing, making, recording.
 Practical learning experiences

 School trips to Space guard centre (Knighton)
 Creating sun dials to use outside in the sun

Axis, Earth, Galileo, geocentric, heliocentric
 Lunar, moon north, east, south, west orbit
 phases of the Moon

Planets, revolve rotate, shadows
 Solar System sphere
 sun
 sunrise
 sunset
 time zones

Maths - Phases of the moon, fractions
 Geography - countries in the world and their time zone
 Points on a compass for sundials