Corpus Christi Catholic Primary School

Year 5 – Earth and Space - MTP Unit Overview

Outcomes:

By the end of this unit all pupils should know:

- 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

By the end of this unit pupils should have developed the following working scientifically skills:

- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions.

Progression:

Prior learning:

- Year 1 – Seasonal change
- Year 4 - **Forces** and magnets

Building towards: KS3 Chemistry – Earth and the atmosphere –

- the composition of the Earth
- the structure of the Earth

KS3 Physics – Forces

- non-contact forces: gravity forces acting at a distance on Earth and in space

Space Physics

- gravity force, weight = mass x gravitational field strength (g), on Earth g=10 N/kg, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and sun (qualitative only)
- our sun as a star, other stars in our galaxy, other galaxies
- the seasons and the Earth's tilt, day length at different times of year, in different hemispheres
- the light year as a unit of astronomical distance