



Year: 8

Subject: Science

Topic: Earth and space

Knowledge and Understanding to be developed:

Pupils should use and develop their skills, knowledge and understanding by comparing the Earth with other planets. They should be given opportunities to study: 1. the daily and annual movements of the Earth and their effect on day and year length 2. the relative positions and key features of the Sun and planets in the solar system

Homework:

Work through Earth and space booklet

Lessons	Skills/practicals
Lesson 1: Modelling the solar system	
<p>Pupils can order objects in the universe according to size Name the planets in our solar system in order</p> <p>Pupils use ratio and percentages to calculate differences between the planets</p>	
Lesson 2 The seasons on earth	
<p>Pupils can name the seasons Pupils can describe how the earth is tilted on its axis and how it orbits the sun Pupils can explain the seasons in terms of the earth's tilt and orbit.</p>	
Lesson 3 – 9 Transport to space	
<p>Pupils individually build and launch a paper rocket, they evaluate their designs and make improvements where necessary. In groups pupils build a rocket to carry a payload into space. They evaluate their design and make changes where necessary</p>	
Lessons 10 – 12 : Rocket launch to mars	
<p>Class Practical:</p> <p>Using their knowledge and skills in space transport from lessons 3 – 9. Pupils make and launch rockets and investigate how well they take off.</p>	<p>Class Practical:</p> <p>Pupils make and launch rockets and investigate how well they take off.</p>

<p>Numeracy</p> <p>Draw conclusion from data KS3.19 Measure to complete a task KS5</p>	<p>Literacy</p> <p>Summarise and synthesise information Response and analysis 8.RA3 Distinguish between bias and objectivity Response and analysis 8.RA4 in planning writing make choices about language and purpose to suit the audience meaning purposes readers8.WM3 Use whole text structure to support and communicate meaning structure and organisation8WS1 select analyse and present ideas information convincingly objectively structure and organisation8.WS2 use technical terms language expression consistent with subject content language 8.WL2</p>
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