



Year 8	Forces, Pressure, Earth and Space	14 Lessons
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Aims: This unit of work is designed to introduce students to Forces, Pressure, Earth and Space.

Links to KS4:
 Chapter 5 Physics – Forces
 Chapter 8 Physics – Space
 Chapter 3 Physics – Particle Model of Matter

Key Skills	Literacy Links:	Numeracy Links:
<ul style="list-style-type: none"> To develop an understanding of Forces and Pressure. To develop an understanding of Earth and Space. To develop practical skills in a Science labs. 	<p>Key Words: pressure, planet, season, force, Newton, Pascal Be able to read and use these keywords within Scientific situations both verbally and written.</p>	<p>Using large numbers to describe the distances in space. Rearranging and using the pressure equation.</p>

Assessment	Cross-Curricular Links
<ul style="list-style-type: none"> <i>Pink sheet teacher assessed activity – Solar system theories.</i> <i>50 mark test which will focus on the following key areas: Gravity, the Earth and seasons, Pressure in fluids, forces and their effects and speed, acceleration & graphs.</i> 	<ul style="list-style-type: none"> History – The history of the space travel and the rise of the Copernican theory of the solar system.
	SMSC opportunities and British values

Opportunities for further learning

Homework for year 8 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit.

Option 1: Students could research the uses of magnets.
Option 2: Students could research different units for measuring speed and why they're required.
Option 3: Research the Moon landings.
Option 4: Students research the different theories about the solar system, starting with Ptolemy.
Option 5: Students calculate their pressure on the floor.
Option 6: Research the design of the aluminium drinks can.
Option 7: Drawing a graph.
Option 8: Biographies of Newton or Pascal after whom units are named.
Option 9: Detailed study of the properties of the solar system's planets.