

## Is There Anyone Out There Resource

Activity name	Curriculum Link	Description
<p>1: Martian Soil</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To identify key criteria for life and recognise that life can adapt to, and exist in, extreme environments.</li> <li>To compare mixtures of solids and use investigative skills to identify key characteristics.</li> <li>To describe rocks and soils on the basis of their characteristics, including appearance, texture and permeability.</li> </ul>	<p>Planet Earth: Space SCN 2-06a</p> <p>Materials: Earth's Materials SCN 2-17a</p> <p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within it.</p> <p>Having explored the substances that make up Earth's surface, I can compare some of their characteristics and uses.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.</p> <p>I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.</p>
<p>2: Looking for evidence of microorganisms</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To know that microorganisms are living organisms too small to be seen.</li> <li>To know that some microorganisms produce carbon dioxide if suitable nutrients are provided.</li> <li>To use observations, measurements and other data to draw conclusions.</li> </ul>	<p>Biological Systems: Body Systems and Cells 2-13a</p> <p>Planet Earth: Biodiversity and Interdependence SCN 2-01a</p> <p>Organising and using information LIT 2-25a</p>	<p>I have contributed to investigations into the role of microorganisms in producing and breaking down some materials.</p> <p>I can identify and classify examples of living things, past and present, to help me appreciate their diversity. I can relate physical and behavioural characteristics to their survival or extinction.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop</p>

## Is There Anyone Out There Resource

	Data and analysis MNU 2-20b	ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.  I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.
3: Landscape discussion  Objectives: <ul style="list-style-type: none"> <li>To know that science is about thinking creatively to try to explain how living and non-living things work, and to establish links between causes and effects.</li> <li>To know that comparing the key landscape features on Mars with Earth can help us understand their formation.</li> </ul>	Planet Earth: Biodiversity and Interdependence SCN 2-01a  Organising and using information LIT 2-25a  Data and analysis MNU 2-20b	I can identify and classify examples of living things, past and present, to help me appreciate their diversity. I can relate physical and behavioural characteristics to their survival or extinction.  I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.  I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.
4: Investigating craters  Objectives: <ul style="list-style-type: none"> <li>To use simple equipment and materials to make observations and measurements.</li> <li>To use observations and measurements to draw conclusions.</li> </ul>	Forces, electricity and waves: Forces SCN 2-08a  People, places and the environment SOC 2-07a  Organising and using information	I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.

## Is There Anyone Out There Resource

<ul style="list-style-type: none"> <li>To know that the size of a crater is dependent on the size, weight or velocity of the object dropped.</li> </ul>	<p>LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I can describe the major characteristic features of Scotland's landscape and explain how these were formed.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.</p> <p>I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.</p>
<p>5: Investigating powdery surfaces</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To understand that the greater the size, mass or velocity of an object, the greater the impact crater produced.</li> <li>To know that layers under a surface may be exposed or material ejected upon impact of a falling object.</li> </ul>	<p>Forces, electricity and waves: Forces SCN 2-08a</p> <p>Materials: Earth's Materials SCN 2-17a</p> <p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.</p> <p>Having explored the substances that make up Earth's surface, I can compare some of their characteristics and uses.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.</p>

## Is There Anyone Out There Resource

		I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.
<p>6: Investigating muddy surfaces</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To investigate links between the size, weight or velocity of an object dropped onto a surface and the distance travelled by the material ejected.</li> <li>To use observations and measurements to draw conclusions.</li> </ul>	<p>Forces, electricity and waves: Forces SCN 2-08a</p> <p>Materials: Earth's Materials SCN 2-17a</p> <p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.</p> <p>Having explored the substances that make up Earth's surface, I can compare some of their characteristics and uses.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.</p> <p>I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.</p>
<p>7: Volcanoes and lava</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To describe changes that occur when materials are mixed or heated.</li> <li>To use models to mimic the eruption of a volcano and lava flow.</li> </ul>	<p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.</p>

## Is There Anyone Out There Resource

		I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.
<p>8: Investigating water channels</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To think about what might happen or try things out when deciding what to do, what kind of evidence to collect and what equipment and materials to use.</li> <li>To know that it is important to test ideas using evidence from observation and measurement.</li> <li>To know that flowing water can wash away or make patterns in a surface.</li> </ul>	<p>People, places and the environment SOC 2-07a</p> <p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I can describe the major characteristic features of Scotland's landscape and explain how these were formed.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text.</p> <p>I recognise the need to acknowledge my sources and can do this appropriately.</p> <p>I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.</p>
<p>9: Identifying the best landing site for a Mars rover</p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>To obtain, record and analyse data from a range of secondary sources and use their findings to provide evidence for scientific explanations.</li> <li>To use appropriate methods including ICT to communicate scientific information and contribute to presentation and discussion.</li> <li>To be able to calculate the age of landing sites, identifying landscape features</li> </ul>	<p>People, places and the environment SOC 2-07a</p> <p>Organising and using information LIT 2-25a</p> <p>Data and analysis MNU 2-20b</p>	<p>I can describe the major characteristic features of Scotland's landscape and explain how these were formed.</p> <p>I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text.</p> <p>I recognise the need to acknowledge my sources and can do this appropriately.</p>

## Is There Anyone Out There Resource

		I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.
--	--	--