

# United Learning

## Science Curriculum



# Overview: Whole School

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Autumn 1</b>	<b>Biology</b> Plants <i>Identifying and naming common plants and describing basic structures</i>	<b>Biology</b> Plants <i>Plants grow from seeds, and require water, light and a suitable temperature</i>	<b>Chemistry</b> Rocks <i>Comparisons of types of rocks and how fossils are formed</i>	<b>Biology</b> Living things & their environment <i>Introduction to classifying animals and their environment</i>	<b>Chemistry</b> Properties of materials <i>Relationship between materials and their uses; difference between reversible and non-reversible changes</i>	<b>Biology</b> Evolution and inheritance <i>Fossils; introduction to the idea that adaptation may lead to evolution</i>
<b>Autumn 2</b>	<b>Biology / Physics</b> Seasonal changes <i>Observing changes across four seasons and describing associated weather</i>	<b>Biology</b> Needs of animals <i>Animals need water, food and air to survive and to have offspring</i>	<b>Physics</b> Light <i>Relationship between light and how we see; the formation of shadows</i>	<b>Biology</b> Digestion <i>The human digestive system and simple food chains</i>		<b>Physics</b> Electricity <i>Investigating variations in series circuits</i>
<b>Spring 1</b>	<b>Chemistry</b> Everyday materials <i>Distinguishing objects from the material it's made from, and describing simple properties</i>	<b>Biology</b> Living things & their habitats <i>Basic introduction to habitats and micro-habitats, and simple food chains</i>	<b>Biology</b> Living organisms <i>The role of muscles and skeletons; the importance of nutrients</i>	<b>Chemistry</b> States of matter <i>Solids, liquids and gases and the role of temperature in changing states</i>	<b>Biology</b> Life cycle <i>Life cycles of a mammal, amphibian, insect and bird, and some reproduction processes</i>	<b>Physics</b> Light <i>How light travels and is reflected, and how this allows us to see</i>
<b>Spring 2</b>		<b>Chemistry</b> TBC <i>[Coming for 2020/21]</i>	<b>Biology</b> Plants <i>The key features of flowering plants and what they need to survive</i>	<b>Physics</b> Sounds <i>Relationship between strength of vibrations and volume of sound</i>	<b>Biology</b> Human development <i>Human development to old age</i>	<b>Biology</b> Classifying living things <i>Further classification of living organisms based on characteristics</i>
<b>Summer 1</b>	<b>Biology</b> Animals <i>Identifying and naming fish, amphibians, reptiles, birds and mammals; recognising carnivores, herbivores and omnivores</i>	<b>Chemistry</b> Uses of everyday materials <i>Comparisons of an object's material with its use; impact of bending, twisting etc. on solid objects</i>	<b>Physics</b> Forces & magnets <i>Magnets have poles which attract or repel</i>	<b>Physics</b> Electricity <i>Simple series circuits</i>	<b>Physics</b> Forces <i>Gravity, air and water resistance and friction; introduction to pulleys</i>	<b>Biology</b> Functions of the human body <i>Human circulatory system; transport of nutrients within the body</i>
<b>Summer 2</b>				<b>Chemistry</b> TBC <i>[Coming for 2020/21]</i>	<b>Physics</b> Earth and space <i>Movements of planets and the Moon, and relationship to day and night</i>	<b>Chemistry</b> Chemical reactions <i>Reactions of substances with water, fire and acid</i>



# Overview: Year 1

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Biology</b>  <i>Plants</i>	<ul style="list-style-type: none"> <li>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees, e.g. five examples of each from the school's locality.</li> <li>Identify and describe the basic structure of a variety of common flowering plants, including trees, and name parts, e.g. leaves, flowers, roots, stem/trunk.</li> </ul>	Scientific Attitudes & Planning  Measuring & Observing  Recording & Presenting  Analysing & Evaluating	<b>Scientific Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Asking simple questions and recognising that they can be answered in different ways</li> </ul> <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Observing closely using simple equipment</li> <li>Performing simple tests</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Gathering and recording data to help in answering questions</li> <li>Identifying and classifying</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Use their observations and ideas to suggest answers to questions</li> </ul>
	<b>Biology / Physics</b>  <i>Seasonal changes</i>	<ul style="list-style-type: none"> <li>Observe and describe changes across four seasons.</li> <li>Observe and describe the weather and how it varies.</li> <li>Observe and describe how the length of the day changes at different times of the year.</li> </ul>		
<b>Chemistry</b>  <i>Everyday materials</i>	<ul style="list-style-type: none"> <li>Identify a variety of common materials and objects made from them.</li> <li>Identify and name a variety of everyday materials (e.g. wood, metal, glass, paper, water, rock).</li> <li>Use simple language to describe the physical properties of materials (e.g. hard, soft, rough, smooth, shiny, dull).</li> <li>Use the physical properties of materials to compare and group them.</li> </ul>			
<b>Biology</b>  <i>Animals</i>	<ul style="list-style-type: none"> <li>Identify and name a variety of common animals that they have seen.</li> <li>Compare first-hand the similarities and differences of different animals.</li> <li>Group familiar animals according to what they eat.</li> <li>Describe and compare features of a variety of common animals (fin, wing, claw, scales, feather etc.)</li> <li>Name and locate simple parts of the human body, including those related to the senses.</li> </ul>			



# Overview: Year 2

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Biology</b> <i>Plants</i>	<ul style="list-style-type: none"> <li>Observe and describe how seeds and bulbs grow into mature plants.</li> <li>Recognise that water, light and a suitable temperature are needed for survival and growth.</li> </ul>	Scientific Attitudes & Planning	<b>Scientific Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Asking simple questions and recognising that they can be answered in different ways</li> </ul>
	<b>Biology</b> <i>Needs of animals</i>	<ul style="list-style-type: none"> <li>Describe the main changes that occur as young animals, including humans, grow into adults.</li> <li>Describe the basic needs of animals, including humans, for survival.</li> <li>Describe the importance of exercise, a balanced diet and hygiene for humans.</li> </ul>		
Spring	<b>Chemistry</b> <i>TBC</i>	<ul style="list-style-type: none"> <li>TBC</li> </ul>	Measuring & Observing	<b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Observing closely using simple equipment</li> <li>Performing simple tests</li> </ul>
	<b>Biology</b> <i>Living things and their habitats</i>	<ul style="list-style-type: none"> <li>Identify, with reasons, things that are alive, dead, or never been alive.</li> <li>Describe the survival needs of animals including humans, and recognise that animals and plants usually live in habitats that are suited to them.</li> <li>Describe how plants and animals depend on each other (food chains).</li> <li>Identify and name a variety of plants and animals that they have seen or experienced in their habitats, including microhabitats (e.g. under log).</li> <li>Describe how animals get their food from other animals or plants</li> <li>Use simple food chains to describe feeding relationships.</li> </ul>	Recording & Presenting	<b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Gathering and recording data to help in answering questions</li> <li>Identifying and classifying</li> </ul>
Summer	<b>Chemistry</b> <i>Uses of everyday materials</i>	<ul style="list-style-type: none"> <li>Identify and compare the properties of everyday materials, to assess their suitability for particular purposes.</li> <li>Investigate how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> </ul>	Analysing & Evaluating	<b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Use their observations and ideas to suggest answers to questions</li> </ul>



# Overview: Year 3

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Chemistry</b> <i>Rocks</i> <ul style="list-style-type: none"> <li>Compare and group rocks in different ways according to their properties.</li> <li>Describe how fossils are formed.</li> <li>Explain, in simple terms, that soils are made when rocks are weathered and break down into small particles that combine with organic matter to make soil.</li> </ul>	Measuring & Observing Recording & Presenting	<b>Activity:</b> Observing, comparing and identifying different types of rock. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Make qualitative, systematic observations about rocks.</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Present the properties of rocks (hardness and permeability) in a Carroll diagram.</li> </ul>	
	<b>Physics</b> <i>Light</i> <ul style="list-style-type: none"> <li>Explain that we need light in order to see, and that darkness is its absence.</li> <li>Explain that we see objects because light is reflected from their surface.</li> <li>Explain that shadows are formed when light from a source is blocked by an opaque object and that the position and shape of a shadow can vary.</li> </ul>	Measuring & Observing Analysing & Evaluating	<b>Activity:</b> Exploring how the position of the light source affects the size and shape of a shadow. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Make accurate measurements using a ruler.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identify patterns and draw simple conclusions.</li> </ul>	
Spring	<b>Biology</b> <i>Living organisms</i> <ul style="list-style-type: none"> <li>Describe the nutritional needs of animals, including humans, showing knowledge of simple food groups (e.g. dairy, vegetables) in a healthy diet.</li> <li>Name, locate and describe functions of main parts of the musculoskeletal system (e.g. skull, spine, ribs) in humans and in other animals.</li> <li>Identify which parts protect, support or are involved in movement.</li> </ul>	Analysing & Evaluating	<b>Activity:</b> Grouping and comparing features of animals with/without a skeleton. <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identify patterns, similarities and differences and use these to draw conclusions.</li> <li>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</li> </ul>	
	<b>Biology</b> <i>Plants</i> <ul style="list-style-type: none"> <li>Name, locate main and describe functions of the main features of plants, and how water is transported within plants.</li> <li>Describe basic requirements of plants for life and growth (e.g. light, water)</li> <li>Give relevant examples of different plants with contrasting requirements.</li> <li>Name simple parts of a flower and describe their function.</li> <li>Describe the role flowers play in the life cycle of the plant.</li> </ul>	Scientific Attitudes & Planning Analysing & Evaluating	<b>Activity:</b> Exploring the impact that different conditions has on plant growth. <b>Scientific Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Ask relevant questions and set up an experiment with controlled variables.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Draw conclusions and suggest ways of improving the comparative test.</li> </ul>	
Summer	<b>Physics</b> <i>Forces &amp; magnets</i> <ul style="list-style-type: none"> <li>Describe and compare how things move on different surfaces, and how forces like friction affect this.</li> <li>Describe how magnetic forces can act at a distance and in different ways.</li> <li>Identify that some materials are magnetic while others are not.</li> <li>Understand that not all metals are magnetic.</li> </ul>	Measuring & Observing Analysing & Evaluating	<b>Activity:</b> Investigating whether materials are magnetic or not. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Make systematic observations.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identify patterns, draw simple conclusions and use these to make predictions about the magnetism of other materials.</li> </ul>	



# Overview: Year 4

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Biology</b> <i>Living things and their environment</i>	<ul style="list-style-type: none"> <li>Group, classify and identify animals and plants found locally and during field study trips, into broad groups practically, using keys or in other ways.</li> <li>Explain how environmental changes may have an impact on living things, e.g. the effects of pollution, littering or building work.</li> </ul>	Measuring & Observing  Analysing & Evaluating	<b>Activity:</b> Making simple classification keys to identify local plants and animals  <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Identifying characteristics of animals or plants that can be used in the classification key.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Evaluating the classification key based on ease of use, clarity of questions used on the key.</li> <li>Explain why one classification key may look different to another when both are identifying the same plants/animals.</li> </ul>
	<b>Biology</b> <i>Food and digestion</i>	<ul style="list-style-type: none"> <li>Construct and interpret food chains, labelling producer, predator, prey.</li> <li>Name, locate and describe the functions of the main parts of the digestive system, i.e. mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine, in humans.</li> <li>Identify different types of teeth in humans, e.g. molar, canine and incisor, and describe their functions.</li> </ul>	Attitudes & Planning  Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Investigating the how animals' teeth differ based on their diet.  <b>Scientific Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Ask scientifically relevant questions and identify a range of test animals.</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Record and present information in an accurate, labelled diagram.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Draw conclusions about an animal's teeth and its diet.</li> </ul>
Spring	<b>Chemistry</b> <i>States of matter</i>	<ul style="list-style-type: none"> <li>Group solids/liquids/gases based on their properties.</li> <li>Describe how a variety of materials change state when they are heated or cooled.</li> <li>Describe the water cycle and the part played by evaporation and condensation within that process.</li> </ul>	Measuring & Observing  Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Investigating how different chocolates melt at a certain temperature.  <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Make accurate measurements of temperature using a thermometer.</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Design and use a table to record results.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Produce an oral or written report or presentation of the investigation.</li> </ul>
	<b>Physics</b> <i>Sounds</i>	<ul style="list-style-type: none"> <li>Use the idea that sounds are associated with vibrations, and that they require a medium, i.e. a solid, liquid or gas, to travel through, to explain how sounds are made and heard.</li> <li>Describe the relationship between the pitch of a sound and the features of the object that produced it, and between the volume of a sound, the strength of the vibrations and the distance from a sound source.</li> </ul>	Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Investigating the pitch and volume of sounds using rulers and drums.  <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Design and use a table to record results.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identify patterns, similarities and differences and make predictions about future results.</li> <li>Evaluate the investigation and suggest improvements.</li> </ul>
Summer	<b>Physics</b> <i>Electricity</i>	<ul style="list-style-type: none"> <li>Name a variety of appliances that run on mains and/or battery power.</li> <li>Use simple apparatus to construct and control the flow of electricity in a series circuit.</li> <li>Describe how the circuit may be affected when changes are made to it.</li> <li>Name common conductors (such as metals and water) and insulators (such as wood, plastic), and, given information about how an unknown material behaves in a circuit, classify it as a conductor or insulator.</li> </ul>	Attitudes & Planning  Analysing & Evaluating	<b>Activity:</b> Investigating conductors and insulators in a series circuit.  <b>Scientific Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Ask scientifically relevant questions and identify controlled variables.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identify patterns and use these to draw conclusions and make predictions.</li> <li>Suggest next steps to answer further scientific questions.</li> </ul>
	<b>Chemistry</b> <i>TBC</i>	<ul style="list-style-type: none"> <li>TBC – Coming for 2020/21</li> </ul>	TBC	<ul style="list-style-type: none"> <li>TBC</li> </ul>



# Overview: Year 5

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Chemistry</b> <i>Properties of materials</i>	<ul style="list-style-type: none"> <li>Observe properties of everyday materials and group in different ways.</li> <li>Explain what happens when dissolving occurs in everyday situations.</li> <li>Describe processes to separate mixtures and solutions (solid dissolved in liquid) into their component materials.</li> <li>Give reasons for the use of everyday materials for different purposes, based on their properties.</li> <li>Identify, with reasons, whether changes in materials are reversible or not.</li> </ul>	Attitudes & Planning  Analysing & Evaluating	<b>Activity:</b> Investigating techniques to separate mixtures (magnet, filter etc.). <b>Attitudes &amp; Planning</b> • Set up scientific enquiries with controlled variables. <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Reporting the enquiry, identifying further scientific evidence to support their findings.</li> <li>Use test results to make predictions about further investigations.</li> </ul>
Spring	<b>Biology</b> <i>Life cycle</i>	<ul style="list-style-type: none"> <li>Describe and compare different life cycles in some specific types of animals and plants, e.g. bat or hedgehog, newt, bumblebee, peregrine falcon.</li> <li>Describe and compare different reproductive processes in some animals and plants, including asexual (e.g. taking cuttings) and sexual reproduction in plants and sexual reproduction in humans and other animals.</li> </ul>	Attitudes & Planning  Analysing & Evaluating	<b>Activity:</b> Researching and presenting life cycles of different organisms. <b>Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Ask relevant questions and set up scientific enquiry with variables.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Identifying patterns and reporting the enquiry in an oral or written presentation.</li> </ul>
	<b>Biology</b> <i>Human development</i>	<ul style="list-style-type: none"> <li>Describe the main changes as humans grow into adults and develop to old age, i.e. baby, child, adolescent, adult, old person.</li> </ul>	Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Investigating the relationship between size and gestation periods. <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Record data and present results with a scatter graph.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Draw conclusions and explain causal relationships.</li> <li>Identify further scientific evidence to support findings and make predictions.</li> </ul>
Summer	<b>Physics</b> <i>Forces</i>	<ul style="list-style-type: none"> <li>Describe the effects of simple forces that involve contact (air and water resistance, friction), and gravity.</li> <li>Identify simple mechanisms, including levers, gears and pulleys that allow a smaller force to have greater effect.</li> </ul>	Measuring & Observing  Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Investigating air resistance and water resistance using parachutes. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Measure accurately using a ruler and stopwatch; take repeat readings.</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Set up a table to record results, and present these using a bar chart.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Draw conclusions and explain relationships; evaluate investigation.</li> </ul>
	<b>Physics</b> <i>Earth and space</i>	<ul style="list-style-type: none"> <li>Describe the shapes and relative movements of the Sun, Moon, Earth and other planets in the solar system.</li> <li>Explain the apparent movement of the sun across the sky in terms of the earth's rotation and that this results in day and night.</li> </ul>	Measuring & Observing  Recording & Presenting	<b>Activity:</b> Investigating the monthly temperature and daylight hours in UK and country in the southern hemisphere (e.g. Australia). <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Researching using the internet..</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Presenting findings using a bar chart and line graph.</li> </ul>



# Overview: Year 6

		Substantive knowledge	Disciplinary knowledge	
Autumn	<b>Biology</b> <i>Evolution &amp; inheritance</i> <ul style="list-style-type: none"> <li>Describe how fossils provide evidence for evolution.</li> <li>Use the basic ideas of inheritance, variation and adaptation to describe how living things have changed over time and evolved.</li> </ul>	Attitudes & Planning  Analysing & Evaluating	<b>Activity:</b> Investigating adaptations of various organisms. <b>Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Ask relevant questions and define the parameters for scientific enquiry.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Explain causal relationships in a written or oral report; make predictions.</li> </ul>	
	<b>Physics</b> <i>Electricity</i> <ul style="list-style-type: none"> <li>Use apparatus to construct and control a circuit, and describe how the circuit may be affected when changes are made to it.</li> <li>Use recognised symbols to represent simple series circuit diagrams.</li> </ul>	Measuring & Observing  Recording & Presenting	<b>Activity:</b> Investigating the effect of wire length on the brightness of bulbs. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Use apparatus to construct and control a circuit, and describe how the circuit may be affected when changes are made to it.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Explain causal relationships in a written or oral presentation.</li> </ul>	
Spring	<b>Physics</b> <i>Light</i> <ul style="list-style-type: none"> <li>Use the idea that light from light sources, or reflected light, travels in straight lines and enters our eyes, to explain how we see objects.</li> <li>Use the idea that light travels in straight lines to explain the formation, shape and size of shadows.</li> </ul>	Recording & Presenting  Analysing & Evaluating	<b>Activity:</b> Designing and making a periscope. <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Create accurate, scientific diagrams to illustrate findings.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Report findings and identify wider applications for the scientific principle.</li> </ul>	
	<b>Biology</b> <i>Classifying living things</i> <ul style="list-style-type: none"> <li>Explain how observable features, similarities and differences between types of plants, animals and micro-organisms are used to group and classify them, and give reasons why this is useful.</li> </ul>	Attitudes & Planning  Analysing & Evaluating	<b>Activity:</b> Designing and using own classification keys. <b>Scientific attitudes and planning</b> <ul style="list-style-type: none"> <li>Identify variables and design appropriate questions for classification key.</li> </ul> <b>Analysing &amp; Evaluating</b> <ul style="list-style-type: none"> <li>Evaluate the reliability of their classification key, and recognise limitations.</li> </ul>	
Summer	<b>Biology</b> <i>Functions of the human body</i> <ul style="list-style-type: none"> <li>Name, locate and describe the functions of the main parts of the circulatory system, i.e. heart, blood vessels and blood.</li> <li>Describe the effects of diet, exercise, drugs and lifestyle on how the human body functions.</li> </ul>	Measuring & Observing  Recording & Presenting	<b>Activity:</b> Investigating the effects of exercise on heart rate. <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Making accurate measurements and repeat readings when required.</li> </ul> <b>Recording &amp; Presenting</b> <ul style="list-style-type: none"> <li>Presenting results using a scatter graph, and making conclusions from this.</li> </ul>	
	<b>Chemistry</b> <i>Chemical reactions</i> <ul style="list-style-type: none"> <li>Identify, with reasons, whether changes in materials are reversible or not.</li> <li>Recognise when a chemical reaction has taken place (e.g. colour change; production of an odour; change in temperature; release of gas or formation of a solid).</li> </ul>	Planning  Measuring & Observing	<b>Activity:</b> Identifying when a chemical reaction has taken place. <b>Attitudes &amp; Planning</b> <ul style="list-style-type: none"> <li>Set up a scientific enquiry with dependent and independent variables.</li> </ul> <b>Measuring &amp; Observing</b> <ul style="list-style-type: none"> <li>Make systematic observations and measurements using thermometer.</li> </ul>	

