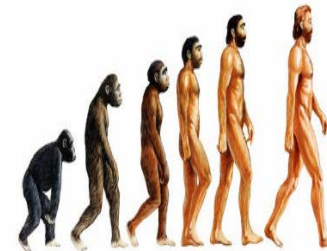
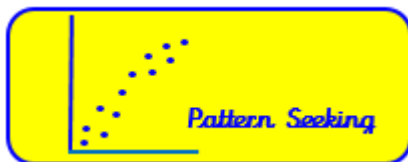
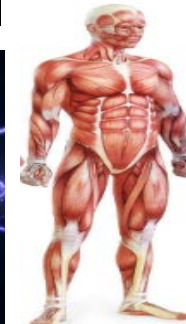
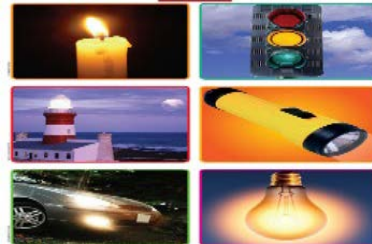
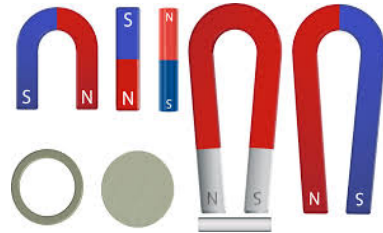


# Dene House Primary School Science

## Curriculum Overview










## Dene House Primary School Science Curriculum Overview



### KS1 Year A






<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer (and throughout the year)</u>	<u>Summer 2</u>
<b>Everyday Materials</b> 	<b>Everyday Materials</b> 	<b>Plants</b> 	<b>Plants</b> 	<b>Seasonal Changes</b> 	<b>Revisit, Research and Investigate</b>
<p><b>Everyday materials</b></p> <p><b>Chemistry</b> Everyday materials</p> <ul style="list-style-type: none"> <li>• I can distinguish between an object and the material it is made from.</li> <li>• I can explain the materials that an object is made from.</li> <li>• I can name wood, plastic, glass, metal, water and rock.</li> <li>• I can describe the properties of everyday materials.</li> <li>• I can group objects based on the materials they are made from.</li> </ul>	<p><b>Uses of everyday materials</b></p> <p><b>Chemistry</b> Uses of everyday materials</p> <ul style="list-style-type: none"> <li>• I can identify and name a range of materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard.</li> <li>• I can suggest why a material might or might not be used for a specific job.</li> <li>• I can explore how shapes can be changed by squashing, bending, twisting and stretching.</li> </ul>	<p><b>Parts of a plant</b></p> <p><b>Biology</b> Plants</p> <ul style="list-style-type: none"> <li>• I can name a variety of common wild and garden plants.</li> <li>• I can name the petals, stem, leaf and root of a plant.</li> <li>• I can name the roots, trunk, branches and leaves of a tree.</li> </ul>	<p><b>How plants grow</b></p> <p><b>Biology</b> Plants</p> <ul style="list-style-type: none"> <li>• I can describe how seeds and bulbs grow into plants.</li> <li>• I can describe what plants need in order to grow and stay healthy (water, light &amp; suitable temperature).</li> </ul>	<p><b>Seasonal Changes</b></p> <p><b>Physics</b> Seasonal changes</p> <ul style="list-style-type: none"> <li>• I can observe and comment on changes in the seasons.</li> <li>• I can name the seasons and suggest the type of weather in each season.</li> </ul>	<p><b>This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.</b></p>

<b>Working Scientifically Skills</b>				
	<b>Observing Closely</b>	<b>Performing Tests</b>	<b>Identifying and Classifying</b>	<b>Recording Findings</b>
	<ul style="list-style-type: none"> <li>*Talk about what they can see, touch, smell, hear or taste,</li> <li>*Use simple equipment to help them make observations.</li> </ul>	<ul style="list-style-type: none"> <li>*Perform a simple test.</li> <li>*Tell other people about what they have done.</li> </ul>	<ul style="list-style-type: none"> <li>*Identify and classify things they observe.</li> <li>*Think of some questions to ask.</li> <li>*Answer some scientific questions.</li> <li>*Give a simple reason for their answers.</li> <li>*Explain what they have found out.</li> </ul>	<ul style="list-style-type: none"> <li>*Show their work using pictures, labels and captions.</li> <li>*Record their findings using standard units.</li> <li>*Put some information in a chart or table.</li> </ul>
<b>Recording / Maths Skills</b>				
	<ul style="list-style-type: none"> <li>*Record findings using standard units e.g. cm, m, minutes, seconds</li> <li>*Record information in a chart or table e.g. tally chart, basic recording table</li> <li>*Sort things using a simple table e.g. animals, plants, materials</li> <li>*Present findings in a simple pictogram using real life pictures</li> </ul>			



## Dene House Primary School Science Curriculum Overview

### KS1 Year B

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>
<p><b><u>Animals Including Humans</u></b></p> 	<p><b><u>Animals Including Humans</u></b></p> 	<p><b><u>Animals Including Humans</u></b></p> 	<p><b><u>Living Things and Their Habitats</u></b></p> 	<p><b><u>Living Things and Their Habitats</u></b></p> 	<p><b><u>Revisit, Research and Investigate</u></b></p> <p style="color: red;">This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.</p>
<p><b>My body and healthy lifestyle</b></p> <p><b>Biology</b> Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can name the parts of the human body that I can see.</li> <li>• I can link the correct part of the human body to each sense.</li> <li>• I can describe why exercise, a balanced diet and good hygiene are important for humans.</li> </ul>	<p><b>Growth and survival</b></p> <p><b>Biology</b> Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can explain the basic stages in a life cycle for animals, including humans.</li> <li>• I can describe what animals and humans need to survive.</li> </ul>	<p><b>Classifying Animals</b></p> <p><b>Biology</b> Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can name a variety of animals including fish, amphibians, reptiles birds and mammals.</li> <li>• I can classify and name animals by what they eat (carnivore, herbivore and omnivore).</li> <li>• I can sort animals into categories (including fish, amphibians, reptiles, birds and mammals).</li> </ul>	<p><b>Living things and their habitat</b></p> <p><b>Biology</b> Living things and their habitats</p> <ul style="list-style-type: none"> <li>• I can sort living and non-living things.</li> <li>• I can identify things that are living, dead and never lived.</li> <li>• I can describe how a specific habitat provides for the basic needs of things living there (plants and animals).</li> </ul>	<p><b>Living things and their habitat</b></p> <p><b>Biology</b> Living things and their habitats</p> <ul style="list-style-type: none"> <li>• I can identify and name plants and animals in a range of habitats.</li> <li>• I can match living things to their habitat.</li> <li>• I can describe how animals find their food.</li> <li>• I can name some different sources of food for animals.</li> <li>• I can explain a simple food chain.</li> </ul>	

### Working Scientifically Skills

Observing Closely	Performing Tests	Identifying and Classifying	Recording Findings
<ul style="list-style-type: none"><li>*Use see, touch, smell, hear or taste to help them answer questions.</li><li>*Use some scientific words to describe what they have seen and measured.</li><li>*Compare several things.</li></ul>	<ul style="list-style-type: none"><li>*Carry out a simple fair test.</li><li>*Explain why it might not be fair to compare two things.</li><li>*Say whether things happened as they expected.</li><li>*Suggest how to find things out.</li><li>*Use prompts to find things out</li></ul>	<ul style="list-style-type: none"><li>*Organise things into groups.</li><li>*Find simple patterns or associations</li><li>*Identify animals and plants by a specific criteria, eg. lay eggs or not; have feathers or not.</li></ul>	<ul style="list-style-type: none"><li>*Use text, diagrams, pictures, charts, or tables to record their observations.</li><li>*Measure using simple equipment.</li></ul>


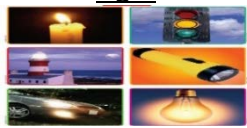
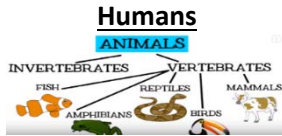


### Recording / Maths Skills

- \*Venn diagrams – sorting animals, plants or materials
- \*Carroll diagram – sorting animals
- \*Measure and record findings using standard units e.g. cm, m, minutes, seconds
- \*Record information in a chart or table e.g. tally chart, basic recording table
- \*Measure using simple equipment e.g. thermometers, measuring tape, ruler,
- \*Present findings in a bar chart, pictogram



## Dene House Primary School Science Curriculum Overview

### KS2 Lower Year A


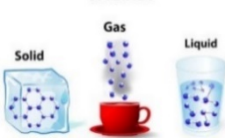



<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>
<p><b>Sound</b></p> 	<p><b>Light</b></p> 	<p><b>Animals Including Humans</b></p> 	<p><b>Animals Including Humans</b></p> 	<p><b>Living Things and Their Habitats</b></p> 	<p><b>Revisit, Research and Investigate</b></p> <p style="color: red;">This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.</p>
<p><b>Sound</b> Physics Sound</p> <ul style="list-style-type: none"> <li>• I can describe how sound is made.</li> <li>• I can explain how sound travels from a source to our ears.</li> <li>• I can explain the place of vibration in hearing.</li> <li>• I can explore the correlation between pitch and the object producing a sound.</li> <li>• I can explore the correlation between the volume of a sound and the strength of the vibrations that produced it.</li> <li>• I can describe what happens to a sound as it travels away from its source.</li> </ul>	<p><b>Light</b> Physics Light</p> <ul style="list-style-type: none"> <li>• I can describe what dark is (the absence of light).</li> <li>• I can explain that light is needed in order to see.</li> <li>• I can explain that light is reflected from a surface.</li> <li>• I can explain and demonstrate how a shadow is formed.</li> <li>• I can explore shadow size and explain.</li> <li>• I can explain the danger of direct sunlight and describe how to keep protected.</li> </ul>	<p><b>Balanced Diet and Skeletons</b> Biology</p> <p>Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can explain the importance of a nutritious, balanced diet.</li> <li>• I can explain how nutrients, water and oxygen are transported within animals and humans.</li> <li>• I can describe and explain the skeletal system of a human.</li> <li>• I can describe and explain the muscular system of a human.</li> <li>• I can describe the purpose of the skeleton in humans and animals.</li> </ul>	<p><b>Digestion and Teeth</b> Biology</p> <p>Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can identify and name the parts of the human digestive system.</li> <li>• I can describe the functions of the organs in the human digestive system.</li> <li>• I can identify and describe the different types of teeth in humans.</li> <li>• I can describe the functions of different human teeth.</li> <li>• I can use food chains to identify producers, predators and prey.</li> <li>• I can construct food chains to identify producers, predators and prey.</li> </ul>	<p><b>Living things and their Habitat</b> Biology</p> <p>Living things and their habitats</p> <ul style="list-style-type: none"> <li>• I can group living things in different ways.</li> <li>• I can use classification keys to group, identify and name living things.</li> <li>• I can create classification keys to group, identify and name living things (for others to use).</li> <li>• I can describe how changes to an environment could endanger living things.</li> </ul>	

<b>Working Scientifically Skills</b>		
<b>Planning</b>	<b>Obtaining and Presenting Evidence</b>	<b>Considering Evidence and Evaluating</b>
<ul style="list-style-type: none"> <li>*Set up a simple fair test to make comparisons</li> <li>*Plan a fair test and isolate variables, explaining why it was fair and which variables have been isolated</li> <li>*Suggest improvements and predictions</li> <li>*Decide which information needs to be collected and decide which is the best way for collecting it</li> <li>*Use their findings to draw a simple conclusion</li> </ul>	<ul style="list-style-type: none"> <li>*Take measurements using different equipment and units of measure and record what they have found in a range of ways</li> <li>*Make accurate measurements using standard units</li> <li>*Explain their findings in different ways (display, presentation, writing)</li> </ul>	<ul style="list-style-type: none"> <li>*Find any patterns in their evidence or measurements</li> <li>*Make a prediction based on something they have found out</li> <li>*Evaluate what they have found using scientific language, drawings, labelled diagrams, bar charts and tables.</li> <li>*Use straightforward scientific evidence to answer questions or to support their findings</li> <li>*Identify differences, similarities or changes related to simple scientific ideas or processes</li> </ul>
<b>Recording / Maths Skills</b>		
<ul style="list-style-type: none"> <li>*Record information in a chart or table (Drawn independently)</li> <li>*Present findings using bar charts (Scaled)</li> <li>*Venn diagrams – sorting animals, plants or materials</li> <li>*Carroll diagram – sorting animals</li> <li>*Measure and record findings using standard units e.g. cm, m, minutes, seconds to 1 decimal place</li> <li>*Round measurements with one place to the nearest whole number.</li> </ul>	<ul style="list-style-type: none"> <li>*Interpret and present data using bar charts and time graphs</li> <li>*Compare information presented in bar charts, tables, and other graphs.</li> <li>*Find patterns in their evidence / measurements</li> <li>*Use a range of equipment and measure accurately</li> </ul>	



## Dene House Primary School Science Curriculum Overview

### KS2 Lower Year B

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>
<b>Electricity</b> 	<b>States of Matter</b> 	<b>Rocks and Solids</b> 	<b>Forces and Magnets</b> 	<b>Plants</b> 	<b>Revisit, Research and Investigate</b> This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.
<b>Electricity</b> <b>Physics</b> Electricity <ul style="list-style-type: none"> <li>• I can identify and name appliances that require electricity to function.</li> <li>• I can construct a series circuit.</li> <li>• I can identify and name the components in a series circuit (including cells, wires, bulbs, switches and buzzers).</li> <li>• I can draw a circuit diagram.</li> <li>• I can predict and test whether a lamp will light within a circuit.</li> <li>• I can describe the function of a switch in a circuit.</li> <li>• I can describe the difference between a conductor and insulators; giving examples of each.</li> </ul>	<b>States of Matter</b> <b>Chemistry</b> States of matter <ul style="list-style-type: none"> <li>• I can group materials based on their state of matter (solid, liquid, gas).</li> <li>• I can describe how some materials can change state.</li> <li>• I can explore how materials change state.</li> <li>• I can measure the temperature at which materials change state.</li> <li>• I can describe the water cycle.</li> <li>• I can explain the part played by evaporation and condensation in the water cycle.</li> </ul>	<b>Rocks</b> <b>Chemistry</b> Rocks <ul style="list-style-type: none"> <li>• I can compare and group rocks based on their appearance and physical properties, giving a reason.</li> <li>• I can describe how fossils are formed.</li> <li>• I can describe how soil is made.</li> <li>• I can describe and explain the difference between sedimentary and igneous rock.</li> </ul>	<b>Forces and Magnets</b> Forces and magnets <ul style="list-style-type: none"> <li>• I can explore and describe how objects move on different surfaces.</li> <li>• I can explain how some forces require contact and some do not, giving examples.</li> <li>• I can explore and explain how objects attract and repel in relation to objects and other magnets.</li> <li>• I can predict whether objects will be magnetic and carry out an enquiry to test this out.</li> <li>• I can describe how magnets work.</li> <li>• I can predict whether magnets will attract or repel and give a reason.</li> </ul>	<b>Plants</b> <b>Biology</b> Plants <ul style="list-style-type: none"> <li>• I can describe the function of different parts of flowing plants and trees.</li> <li>• I can explore and describe the needs of different plants for survival.</li> <li>• I can explore and describe how water is transported within plants.</li> <li>• I can describe the plant life cycle, especially the importance of flowers.</li> </ul>	



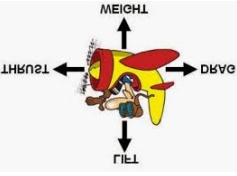



<b>Working Scientifically Skills</b>		
<b>Planning</b>	<b>Obtaining and Presenting Evidence</b>	<b>Considering Evidence and Evaluating</b>
<ul style="list-style-type: none"> <li>*Set up a simple fair test to make comparisons</li> <li>*Plan a fair test and isolate variables, explaining why it was fair and which variables have been isolated</li> <li>*Suggest improvements and predictions</li> <li>*Decide which information needs to be collected and decide which is the best way for collecting it</li> <li>*Use their findings to draw a simple conclusion</li> </ul>	<ul style="list-style-type: none"> <li>*Take measurements using different equipment and units of measure and record what they have found in a range of ways</li> <li>*Make accurate measurements using standard units</li> <li>*Explain their findings in different ways (display, presentation, writing)</li> </ul>	<ul style="list-style-type: none"> <li>*Find any patterns in their evidence or measurements</li> <li>*Make a prediction based on something they have found out</li> <li>*Evaluate what they have found using scientific language, drawings, labelled diagrams, bar charts and tables.</li> <li>*Use straightforward scientific evidence to answer questions or to support their findings</li> <li>*Identify differences, similarities or changes related to simple scientific ideas or processes</li> </ul>
<b>Recording / Maths Skills</b>		
<ul style="list-style-type: none"> <li>*Record information in a chart or table (Drawn independently)</li> <li>*Present findings using bar charts (Scaled)</li> <li>*Venn diagrams – sorting animals, plants or materials</li> <li>*Carroll diagram – sorting animals</li> <li>*Measure and record findings using standard units e.g. cm, m, minutes, seconds to 1 decimal place</li> <li>*Round measurements with one place to the nearest whole number.</li> </ul>	<ul style="list-style-type: none"> <li>*Interpret and present data using bar charts and time graphs</li> <li>*Compare information presented in bar charts, tables, and other graphs.</li> <li>*Find patterns in their evidence / measurements</li> <li>*Use a range of equipment and measure accurately</li> </ul>	



## Dene House Primary School Science Curriculum Overview

### KS2 Upper Year A

<u>Autumn 1 and 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>
<p><b><u>Properties and Changes of Materials</u></b></p> 	<p><b><u>Earth and Space</u></b></p> 	<p><b><u>Forces in Action</u></b></p> 	<p><b><u>Animals Including Humans</u></b></p> 	<p><b><u>Revisit, Research and Investigate</u></b></p> <p style="color: red;">This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.</p>
<p><b>Properties and Changes of Materials</b> <b>Chemistry</b></p> <ul style="list-style-type: none"> <li>• I can compare and group materials based on their properties (e.g. hardness, solubility, transparency, conductivity, [electrical &amp; thermal], and response to magnets).</li> <li>• I can describe how a material dissolves to form a solution; explaining the process of dissolving.</li> <li>• I can describe and show how to recover a substance from a solution.</li> <li>• I can describe how some materials can be separated.</li> <li>• I can demonstrate how materials can be separated (e.g. through filtering, sieving and evaporating).</li> <li>• I know and can demonstrate that some changes are reversible and some are not.</li> <li>• I can explain how some changes result in the formation of a new material and that this is usually irreversible.</li> <li>• I can discuss reversible and irreversible changes.</li> <li>• I can give evidenced reasons why materials should be used for specific purposes.</li> </ul>	<p><b>Earth and Space</b> <b>Physics</b> <b>Earth and space</b></p> <ul style="list-style-type: none"> <li>• I can describe and explain the movement of the Earth and other planets relative to the Sun.</li> <li>• I can describe and explain the movement of the Moon relative to the Earth.</li> <li>• I can explain and demonstrate how night and day are created.</li> <li>• I can describe the Sun, Earth and Moon (using the term spherical).</li> </ul>	<p><b>Forces in Action</b> <b>Forces</b></p> <ul style="list-style-type: none"> <li>• I can explain what gravity is and its impact on our lives.</li> <li>• I can identify and explain the effect of air resistance.</li> <li>• I can identify and explain the effect of water resistance.</li> <li>• I can identify and explain the effect of friction.</li> <li>• I can explain how levers, pulleys and gears allow a smaller force to have a greater effect.</li> </ul>	<p><b>Animals Including Humans</b> <b>Biology</b></p> <p>Animals, including humans</p> <ul style="list-style-type: none"> <li>• I can identify and name the main parts of the human circulatory system.</li> <li>• I can describe the function of the heart, blood vessels and blood.</li> <li>• I can discuss the impact of diet, exercise, drugs and lifestyle on health.</li> <li>• I can describe the ways in which nutrients and water are transported in animals, including humans.</li> </ul>	

<b>Working Scientifically Skills</b>		
<b>Planning</b>	<b>Obtaining and Presenting Evidence</b>	<b>Considering Evidence and Evaluating</b>
<ul style="list-style-type: none"> <li>*Set up a simple fair test to make comparisons</li> <li>*Plan a fair test and isolate variables, explaining why it was fair and which variables have been isolated</li> <li>*Suggest improvements and predictions</li> <li>*Decide which information needs to be collected and decide which is the best way for collecting it</li> <li>*Use their findings to draw a simple conclusion</li> </ul>	<ul style="list-style-type: none"> <li>*Take measurements using different equipment and units of measure and record what they have found in a range of ways</li> <li>*Make accurate measurements using standard units</li> <li>*Explain their findings in different ways (display, presentation, writing)</li> </ul>	<ul style="list-style-type: none"> <li>*Find any patterns in their evidence or measurements</li> <li>*Make a prediction based on something they have found out</li> <li>*Evaluate what they have found using scientific language, drawings, labelled diagrams, bar charts and tables.</li> <li>*Use straightforward scientific evidence to answer questions or to support their findings</li> <li>*Identify differences, similarities or changes related to simple scientific ideas or processes</li> </ul>
<b>Recording / Maths Skills</b>		
<ul style="list-style-type: none"> <li>*Record information in a chart or table (Drawn independently)</li> <li>*Present findings using bar charts (Scaled)</li> <li>*Venn diagrams – sorting animals, plants or materials</li> <li>*Carroll diagram – sorting animals</li> <li>*Measure and record findings using standard units e.g. cm, m, minutes, seconds to 1 decimal place</li> <li>*Round measurements with one place to the nearest whole number.</li> </ul>	<ul style="list-style-type: none"> <li>*Interpret and present data using bar charts and time graphs</li> <li>*Compare information presented in bar charts, tables, and other graphs.</li> <li>*Find patterns in their evidence / measurements</li> <li>*Use a range of equipment and measure accurately</li> </ul>	



## Dene House Primary School Science Curriculum Overview

### KS2 Upper Year B

<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer</u>	<u>Summer 2</u>
<b><u>Living Things and Their Habitats/ Animals Including Humans</u></b> 	<b><u>Living things in their Habitats</u></b> 	<b><u>Evolution and Inheritance</u></b> 	<b><u>Electricity</u></b> 	<b><u>Light</u></b> 	<b><u>Revisit, Research and Investigate</u></b> This time will be used to perform additional scientific investigations to consolidate and apply working scientifically skills and link topics taught to P4C questions.
<p>Living Things and their Habitats : Life Cycles Animals including Humans : Changes of Growth in Humans <b>Biology</b> <b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>• I can describe the life cycle of different living things, e.g. mammal, amphibian, insect bird.</li> <li>• I can describe the differences between different life cycles.</li> <li>• I can describe the process of reproduction in plants.</li> <li>• I can describe the process of reproduction in animals.</li> </ul> <p><b>Animals, including humans</b></p> <ul style="list-style-type: none"> <li>• I can create a timeline to indicate stages of growth in humans.</li> </ul>	<p>Living things in their habitats : <b>Classification</b> <b>Biology</b> Living things and their habitats</p> <ul style="list-style-type: none"> <li>• I can classify living things into broad groups according to observable characteristics and based on similarities &amp; differences.</li> <li>• I can describe how living things have been classified.</li> <li>• I can give reasons for classifying plants and animals in a specific way.</li> </ul>	<p>Evolution And Inheritance <b>Biology</b> Evolution and inheritance</p> <ul style="list-style-type: none"> <li>• I can describe how the earth and living things have changed over time.</li> <li>• I can explain how fossils can be used to find out about the past.</li> <li>• I can explain about reproduction and offspring (recognising that offspring normally vary and are not identical to their parents).</li> <li>• I can explain how animals and plants are adapted to suit their environment.</li> <li>• I can link adaptation over time to evolution.</li> <li>• I can explain evolution.</li> </ul>	<p>Electricity Changing Circuits <b>Physics</b> Electricity</p> <ul style="list-style-type: none"> <li>• I can explain how the number &amp; voltage of cells in a circuit links to the brightness of a lamp or the volume of a buzzer.</li> <li>• I can compare and give reasons for why components work and do not work in a circuit.</li> <li>• I can draw circuit diagrams using correct symbols.</li> </ul>	<p>Light <b>Physics</b> Light</p> <ul style="list-style-type: none"> <li>• I can explain how light travels.</li> <li>• I can explain and demonstrate how we see objects.</li> <li>• I can explain why shadows have the same shape as the object that casts them.</li> <li>• I can explain how simple optical instruments work, e.g. periscope, telescope, binoculars, mirror, magnifying glass etc.</li> </ul>	

### Working Scientifically Skills

Planning	Obtaining and Presenting Evidence	Considering Evidence and Evaluating
<ul style="list-style-type: none"> <li>*Explore different ways to test an idea, choose the best way, and give reasons</li> <li>*Vary one factor whilst keeping the others the same in an experiment then explain why they do this</li> <li>*Plan and carry out an investigation by controlling variables fairly and accurately</li> <li>*Make a prediction with reasons</li> <li>*Use information to help make a prediction</li> <li>*Use test results to make further predictions and set up further comparative tests</li> <li>*Explain, in simple terms, a scientific idea and what evidence supports it</li> <li>*Present a report of their findings through writing, display and presentation</li> </ul>	<ul style="list-style-type: none"> <li>*Explain why they have chosen specific equipment (including ICT based equipment)</li> <li>*Decide which units of measurement they need to use</li> <li>*Explain why a measurement needs to be repeated</li> <li>*Record their measurements in different ways (incl bar charts, tables and line graphs)</li> <li>*Take measurements using a range of scientific equipment with increasing accuracy and precision</li> </ul>	<ul style="list-style-type: none"> <li>*Find a pattern from their data and explain what it shows</li> <li>*Use a graph to answer scientific questions</li> <li>*Link what they have found out to other science</li> <li>*Suggest how to improve their work and say why they think this</li> <li>*Record more complex data and results using scientific diagrams, classification keys, tables, bar charts, line graphs and models</li> <li>*Report findings from investigations through written explanations and conclusions</li> <li>*Identify scientific evidence that has been used to support to refute ideas or arguments</li> <li>*Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations</li> </ul>

### Recording / Maths Skills

- \*Measure and record findings using standard units e.g. cm, m, minutes, seconds to 1 decimal place
- \*Round measurements with one place to the nearest whole number.
- \*Use a range of equipment and measure accurately with increasing accuracy and precision
- \*Take repeat findings accurately where appropriate
- \*Record more complex data and results using scientific diagrams, labels, classification keys, scatter graphs, bar charts, line graphs and models.
- \*Interpret and present data using bar, line and time graphs
- \*Compare information presented in bar charts, tables, and other graphs.
- \*Find patterns in their evidence / measurements