


Year 4 Class 3 22-23	Term	Long Term as only taught once in primary so needs to be embedded	Term	Term	Summer Term- due to investigations	Term
<b>Science Knowledge</b> 	<b>Animals Including humans</b> <ul style="list-style-type: none"> <li>describe the simple functions of the basic parts of the digestive system in humans</li> <li>identify the different types of teeth in humans and their simple functions</li> </ul>	<b>Sound</b> <ul style="list-style-type: none"> <li>identify how sounds are made, associating some of them with something vibrating</li> <li>recognise that vibrations from sounds travel through a medium to the ear</li> <li>find patterns between the pitch of a sound and features of the object that produced it</li> <li>find patterns between the volume of a sound and the strength of the vibrations that produced it</li> <li>recognise that sounds get fainter as the distance from the sound source increases.</li> </ul>	<b>Living things and their habitats</b> <ul style="list-style-type: none"> <li>recognise that living things can be grouped in a variety of ways.</li> <li>explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.</li> <li>recognise that environments can change and that this can sometimes pose dangers to living things.</li> <li>construct and interpret a variety of food chains, identifying producers, predators and prey.</li> </ul>		<b>States of matter</b> <ul style="list-style-type: none"> <li>compare and group materials together, according to whether they are solids, liquids or gases</li> <li>observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)</li> <li>identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature .</li> </ul>	<b>Electricity</b> <ul style="list-style-type: none"> <li>identify common appliances that run on electricity.</li> <li>construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</li> <li>identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery</li> <li>recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.</li> <li>recognise some common conductors and insulators, and associate metals with being good conductors.</li> </ul>
<b>Working Scientifically</b> <b>Red= must be done</b> <b>Amber = this will be an easy link</b>	<ul style="list-style-type: none"> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and dataloggers.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and</li> </ul>	<ul style="list-style-type: none"> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays</li> </ul>	<ul style="list-style-type: none"> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and dataloggers.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and</li> </ul>		<ul style="list-style-type: none"> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and dataloggers.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and</li> </ul>	<ul style="list-style-type: none"> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and dataloggers.</li> <li>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions.</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and</li> </ul>

	<p>written explanations, displays or presentations of results and conclusions</p> <ul style="list-style-type: none"> <li>• using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>• identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>• using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<p>or presentations of results and conclusions</p> <ul style="list-style-type: none"> <li>• using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>• identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>• using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<p>conclusions</p> <ul style="list-style-type: none"> <li>• using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>• identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>• using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>		<p>conclusions</p> <ul style="list-style-type: none"> <li>• using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>• identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>• using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<p>conclusions</p> <ul style="list-style-type: none"> <li>• using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>• identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>• using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>
<p><b>Enquiry types</b></p> <p>Red= that method MUST be done linked to the subject knowledge aspect but the other methods can be chosen to suit investigations</p>	<ul style="list-style-type: none"> <li>• observing changes over periods of time,</li> <li>• noticing patterns,</li> <li>• grouping and classifying things,</li> <li>• carrying out simple comparative and fair tests</li> <li>• and finding things out using secondary sources</li> </ul>	<ul style="list-style-type: none"> <li>• observing changes over periods of time,</li> <li>• noticing patterns,</li> <li>• grouping and classifying things,</li> <li>• carrying out simple comparative and fair tests</li> <li>• and finding things out using secondary sources</li> </ul>	<ul style="list-style-type: none"> <li>• observing changes over periods of time,</li> <li>• noticing patterns,</li> <li>• grouping and classifying things,</li> <li>• carrying out simple comparative and fair tests</li> <li>• and finding things out using secondary sources</li> </ul>		<ul style="list-style-type: none"> <li>• observing changes over periods of time,</li> <li>• noticing patterns,</li> <li>• grouping and classifying things,</li> <li>• carrying out simple comparative and fair tests</li> <li>• and finding things out using secondary sources</li> </ul>	<ul style="list-style-type: none"> <li>• observing changes over periods of time,</li> <li>• noticing patterns,</li> <li>• grouping and classifying things,</li> <li>• carrying out simple comparative and fair tests</li> <li>• and finding things out using secondary sources</li> </ul>
<p><b>WS ongoing</b></p>	<ul style="list-style-type: none"> <li>• Ask their own questions about what they observe.</li> <li>• Draw simple conclusions and use some scientific language, first, to talk about and, later, to write about what they have found out.</li> </ul>					

