

## Key Learning – Working Scientifically / Working Like a Scientist

Using vocabulary		Curiosity and asking questions	
<ul style="list-style-type: none"> <li>• Use appropriate vocabulary to talk about what they see, hear and feel whilst in the natural world and beyond</li> <li>• Use simple vocabulary to name and describe objects, events, materials, living things and environments.</li> </ul>		<b>Explore / observe</b> <ul style="list-style-type: none"> <li>• Look closely at and talk about what they notice whilst exploring the world around them.</li> </ul>	<b>Questioning</b> <ul style="list-style-type: none"> <li>• Show an interest in and be curious about the world around them</li> <li>• Whilst playing and exploring, ask questions such as 'I wonder...?' and 'What would happen if...?' and 'How can we...?' <ul style="list-style-type: none"> <li>•</li> </ul> </li> </ul>
Finding things out (testing and gathering data)			
<b>Make observations using equipment</b> <ul style="list-style-type: none"> <li>• Use senses or simple equipment to make observations and develop their small motor skills, (e.g., magnifiers, pipettes, egg timers, simple digital microscopes, etc.)</li> <li>• Collect a series of observations over longer periods of time (e.g., ice changing over a day, a tree changing through the seasons, a plant growing over a few weeks)</li> </ul>	<b>Compare, identify, sort and group</b> <ul style="list-style-type: none"> <li>• Make direct comparisons and notice similarities and differences in the natural world, including themselves and others, plants and animals, weather, seasons and materials</li> <li>• Sort / group collections of things using their own criteria</li> <li>• Begin to identify and name objects/living things (and some of their features) by matching them with pictures</li> </ul>	<b>Test</b> <ul style="list-style-type: none"> <li>• Test things out to make comparisons and to answer questions during play or exploration</li> <li>• Show resilience, when trying to find things out</li> <li>• Work with others when testing their ideas or the ideas of others</li> <li>• Use talk to help work out problems, organise thinking and activities, and to explain how things work and why they might happen</li> </ul>	<b>Research</b> <ul style="list-style-type: none"> <li>• Talk to people (visits/visitors/family) to find things out and answer questions</li> <li>• Think of questions to ask to find out about ...</li> <li>• Use first hand experiences and secondary sources, (e.g. books, photographs, internet) to find things out and answer questions</li> </ul>

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Recording (recording evidence)		Answering the question
<p><b>Describe experiences and events in some detail</b></p> <ul style="list-style-type: none"> <li>• Talk about and describe the changes they notice and things that happen, based on real experiences or books read to them.</li> </ul>	<p><b>Record</b></p> <ul style="list-style-type: none"> <li>• Draw pictures, take photographs, make models or use music, dance and role-play to represent their observations</li> <li>• Record in scrapbooks, as part of a display or using digital media</li> <li>• Add or write simple labels to annotate drawings, photographs, models, images</li> <li>• With support, use sorting rings/boxes, simple prepared tick sheets/tables to record observations and comparisons.</li> <li>• Count objects, actions and sounds</li> <li>• With support, make comparisons using hands and feet and other non-standard measures such as building blocks, pieces of string, small straws</li> </ul>	<p><b>Explaining and understanding (what has happened / changed)</b></p> <ul style="list-style-type: none"> <li>• Use their observations to help them to answer their questions</li> <li>• Talk about they have done and noticed</li> <li>• Talk about what they have observed and found out e.g., "The big block of ice changed/became to water. It took a long time." "The blue car was the best. It went [down the ramp] the fastest."</li> <li>• Use measurement vocabulary to express simple comparisons between things e.g., "My mummy's feet are bigger than mine", "Sam's plant is taller than mine", "My stone is heavier than Sophie's."</li> <li>• Talk about how their actions changed an outcome e.g. "I pushed the car really hard, and it went a long way."</li> <li>• Make direct comparisons or use their recorded observations to talk about what they found out and answer the question, where appropriate</li> <li>• Use appropriate vocabulary to express their understanding (relevant to EY experiences and context)</li> </ul>