

Learning Progression: Materials

	<b>Nursery</b>	<b>Reception</b>	<b>Year One</b>			<b>Year Two</b>		
<b>Objectives Covered</b>	<ul style="list-style-type: none"> <li>Use all their senses in hands-on exploration of natural materials</li> <li>Explore collections of materials with similar and/or different properties</li> <li>Explore how things work</li> <li>Explore and talk about different forces they can feel</li> <li>Talk about the differences between materials and the changes they notice</li> </ul>	<ul style="list-style-type: none"> <li>Explore the natural world around them</li> </ul> <p><b>ELG</b></p> <ul style="list-style-type: none"> <li>Understand some important processes and changes in the natural world around them, including seasons and changing states of matter</li> </ul>	<ul style="list-style-type: none"> <li>Distinguish between an object and the material from which it is made</li> <li>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</li> <li>Describe the simple physical properties of a variety of everyday materials</li> <li>Compare and group together a variety of everyday materials on the basis of their simple physical properties</li> </ul>			<ul style="list-style-type: none"> <li>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</li> <li>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</li> </ul> <p>Revisit and extend:</p> <ul style="list-style-type: none"> <li>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</li> <li>Compare and group together a variety of everyday materials on the basis of their simple physical properties</li> </ul>		
<b>Vocabulary</b>	<p><b>Red – statutory</b></p> <p><b>Blue – non-statutory</b></p> <p><b>Black - additional</b></p> <p>material soft fluffy heavy light shiny wood plastic stone</p>	<p>object material soft fluffy heavy light shiny glass metal strong bendy</p>	<p>object material wood plastic glass metal water rock properties</p>	<p>hard soft stretchy stiff shiny dull rough smooth bendy waterproof absorbent opaque transparent</p>	<p>brick paper fabric elastic foil</p> <p>rigid fragile delicate breakable translucent</p>	<p>suitable wood metal plastic glass brick rock paper cardboard uses</p>	<p>shape solid object change squash bend twist stretch</p>	<p>suitable unsuitable</p> <p>modern past invented</p>
<b>Skills</b>	<ul style="list-style-type: none"> <li>Learn new vocabulary</li> <li>Understand and ask ‘why’ questions about materials</li> <li>Talk about and make observations of materials using taught vocabulary</li> <li>Comment on similarities, differences, patterns and change</li> <li>Know about similarities and differences materials</li> <li>Use senses to explore materials</li> <li>Identify some materials within own environment</li> </ul>	<ul style="list-style-type: none"> <li>Learn new vocabulary and use it in different contexts</li> <li>Articulate their ideas and thoughts in well-formed sentences.</li> <li>Ask questions to find out more and to check what has been said to them</li> <li>Make comments about what they have heard and ask questions to clarify their understanding</li> <li>Make comments and observations of materials using taught vocabulary</li> <li>Observe and find out about materials using first-hand experience and their senses</li> <li>Make comments about materials based on their experiences and what has been read to them</li> <li>Describe observations in some detail.</li> <li>Use talk to help work out problems and organize thinking and activities, and to explain how things work and why they might happen</li> </ul>	<ul style="list-style-type: none"> <li>Ask questions about materials</li> <li>Observe different objects closely using magnifying glasses</li> <li>Identify and classify different materials</li> <li>Suggest answers to questions about materials</li> <li>Perform simple tests about properties of materials</li> <li>Record data</li> <li>Suggest answers using observations</li> </ul>			<ul style="list-style-type: none"> <li>Ask questions about materials in the past and now</li> <li>Compare uses of everyday materials</li> <li>Identify and classify</li> <li>Record observations</li> <li>Suggest answers to questions about suitability of materials</li> <li>Perform simple tests about suitability of materials</li> <li>Record data</li> <li>Suggest answers using observations</li> </ul>		

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		<ul style="list-style-type: none"> <li>• Discuss observed similarities and differences about materials</li> <li>• Explain why some things occur</li> </ul>		
<b>Example Activities</b>	<ul style="list-style-type: none"> <li>• Nursery garden opportunities</li> </ul>	<ul style="list-style-type: none"> <li>• Sort materials</li> <li>• Magnets</li> <li>• Three Little Pigs</li> </ul>	<ul style="list-style-type: none"> <li>• Absorbent/not absorbent experiment</li> </ul>	<ul style="list-style-type: none"> <li>• Compare materials used to make objects in the past</li> <li>• John McAdam</li> </ul>