

# Exploring Everyday Materials : Science : Year 2

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to identify a variety of materials and sort them according to a variety of criteria.	Children will identify and describe some common materials, then think of similar materials that could be grouped in the same ways.	<ul style="list-style-type: none"> <li>Can children identify and name a variety of different materials?</li> <li>Can children organise a variety of materials into groups according to given criteria?</li> <li>Can children organise a variety of materials into groups according to their own criteria?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Picture Sheet</li> <li>Worksheet 1A/1B/1C</li> <li>Variety of different materials (FSD? activity only)</li> <li>Hoops (FSD? activity only)</li> </ul>
<b>Lesson 2</b>	To be able to identify natural and man-made materials.	Children will identify some natural and man-made materials and describe them, then continue to find out about, sort and describe a range of materials.	<ul style="list-style-type: none"> <li>Can children recognise that some materials are naturally occurring and some are not?</li> <li>Can children name some naturally occurring materials?</li> <li>Can children identify objects that are made from naturally occurring materials?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 2A/2B/2C</li> <li>Variety of natural and man-made materials (FSD? activity only)</li> <li>Paper, glue, scissors for collages (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To identify that some materials can change shape by squashing, bending, stretching and twisting, and others can't.	Children will squash, bend, twist and stretch a range of materials, then predict how other materials might behave. They will also conduct investigations, recording their findings.	<ul style="list-style-type: none"> <li>Do children know that some materials change shape when you bend, squash, stretch or twist them?</li> <li>Can children identify some materials that can change shape temporarily?</li> <li>Can children identify some materials that cannot change shape at all?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 3A/3B/3C/3D</li> <li>Plasticine, elastic bands, stones</li> <li>Variety of objects to test (FSD? activity only)</li> </ul>
<b>Lesson 4</b>	To identify the suitability of metal and plastic for a variety of purposes	Children will look at a variety of objects made using metal or plastic and consider why each material has been used. They will go on to sort and describe a range of plastic and metal objects.	<ul style="list-style-type: none"> <li>Do children know that metal and plastic are different materials?</li> <li>Can children identify some different things metal and plastic are used for?</li> <li>Can children explain why a particular material is chosen to be made into an object.</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 4A/4B/4C</li> <li>Variety of metal and plastic objects</li> <li>Fact Cards (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To identify different products that can be made from wood and their features and purposes.	Children will learn about how trees are turned into materials we use. They will then either describe how paper is made in their own words, or make and test paper models.	<ul style="list-style-type: none"> <li>Do the children know that paper and cardboard are made from wood?</li> <li>Can the children identify features of wood, cardboard and paper?</li> <li>Can children explain the advantages and disadvantages of using different wood products?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 5A/5B/5C</li> <li>Fact Sheet A/B</li> <li>Challenge Card (FSD? activity only)</li> <li>Eight sheets of paper per group, sticky tape, one toy car, rubber (FSD? activity only)</li> </ul>
<b>Lesson 6</b>	To identify different materials that are used for the same product.	Children will consider why different objects are made using metal or plastic, then describe the uses of objects and the materials they are made from.	<ul style="list-style-type: none"> <li>Do the children know that different materials can be used to make the same product?</li> <li>Can the children identify which materials have been used in a product?</li> <li>Can children explain how the purpose of a product might affect the material that is used?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 6A/6B/6C/6D/6E</li> <li>Objects: teddy bear, pencil, book, bottle, table, spade, wall, fence (FSD? activity only)</li> </ul>
<b>Lesson 7</b>	To identify material inventions and discoveries.	Children will learn about some man-made materials, their uses and their inventors. They will then describe some products and do an end of unit quiz.	<ul style="list-style-type: none"> <li>Do the children know that products are improved and changed over time?</li> <li>Can the children identify the different ways materials have been used?</li> <li>Can children explain why their invention is an improvement on the original product?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 7A/7B/7C/7D</li> <li>Reason Cards</li> <li>Invention Sheet A/B/C (FSD? activity only)</li> </ul>