






























Caroline Haslett Primary School: Spring 1

Uses of Everyday Materials Year 2

What should I already know?
<ul style="list-style-type: none"> • Objects are things that you can touch or see. • Objects are made from materials. • Some materials that objects are made from (e.g. glass, wood, plastic) • Some words to describe materials (e.g. shiny, soft, rough, absorbent) • Materials which are natural and which are man-made.

What will I know by the end of the unit?
<p>What are materials used for?</p> <ul style="list-style-type: none"> • Materials are used for different purposes based on their properties. • For example, wood is used to make furniture and floors. • Metal can be used to make coins, cans, cars and cutlery. • Glass can be used to make windows. <div style="display: flex; justify-content: space-around; align-items: center;">      </div> <div style="display: flex; justify-content: space-around; align-items: center;">       </div>
<p>What properties of materials make them suitable for a particular use?</p> <ul style="list-style-type: none"> • Glass can be used to make windows because it is transparent. • Rulers can be made from wood, plastic or rubber because these materials are smooth and can be cut straight. • Spoons are made from metal, because it is waterproof and can be cleaned easily. • They can also be made from plastic for children because plastic is light and it cannot hurt children's growing teeth. <div style="display: flex; justify-content: space-around; align-items: center;">     </div> <div style="display: flex; justify-content: space-around; align-items: center;">      </div> <div style="display: flex; justify-content: space-around; align-items: center;">      </div>

How can you change the shape of materials?	<ul style="list-style-type: none"> • The shape of some materials can be changed when they are stretched, twisted, bent and squashed. <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
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Vocabulary	
absorbent	material that soaks up liquid easily
bendy	an object that bends easily into a curved shape
brick	rectangular blocks of baked clay used for building walls, which are usually red or brown
dull	a colour or light that is not bright
elastic	a rubber material that stretches when you pull it and returns to its original size and shape when you let it go
fabrics	cloth or other material produced by weaving together cotton, wool or other threads.
foil	sheets of metal as thin as paper
glass	a hard transparent material
man-made	things are created by people
metal	a hard substance such as iron, steel, gold, or lead
natural	things that exist in nature and are not made by people
opaque	if an object or substance is opaque , you cannot see through it
plastic	a material which is light in weight and does not break easily
process	a series of actions used to produce something or reach a goal.
properties	the qualities or features that belong to something and make it recognisable
purpose	the reason for which it is made or done
recyclable	waste or materials which can be processed and used again
rock	the hard substance which the Earth is made of
rough	uneven and not smooth
shiny	things are bright and reflect light
smooth	no roughness, lumps, or holes
soft	not rough or hard
squash	pressed or crushed with such force that something loses its shape
stiff	firm or does not bend easily
stretchy	slightly elastic
suitable	something that is suitable for a particular purpose or occasion is right or acceptable for it
transparent	If an object is transparent , you can see through it
twist	turn something to make a spiral shape
unsuitable	Someone or something that is unsuitable for a particular purpose or situation does not have the right properties for it
waterproof	does not let water pass through it
wood	the material which forms the trunks and branches of trees

Investigate!
<ul style="list-style-type: none"> • Compare the uses of everyday materials in and around the school with materials found in other places (at home, the journey to school, on visits, and in stories, rhymes and songs) • Observe closely the uses of different materials, and record your observations. • Distinguish between absorbent and waterproof materials. Discuss what happens when water is placed on these materials. • Consider why some properties of materials make them suitable or unsuitable for different uses. • Investigate if some items can be made by more than one material (e.g. cutlery) and explain why. • Investigate if some materials can be used to make more than one thing. • Discuss which materials are recyclable and why. Follow the recycling process. • Investigate how some objects can be changed by squashing, bending, twisting and stretching. • Find out about people who have developed useful new materials, for example John Dunlop, Charles Macintosh or John McAdam

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Working Scientifically	<p>Questions can help us find out about the world. Ask and answer scientific questions about the world around them.</p> <p>Tests can be carried out by following a set of instructions. A prediction is a guess for what might happen in an investigation. Follow a set of instructions to perform a range of simple tests, making simple predictions for what might happen and suggest ways to answer their questions. Simple equipment is used to take measurements and observations eg. timers, hand lenses, metre sticks and trundle wheels. Use simple equipment to measure and make observations. Objects, materials and living things can be looked at, compared and grouped according to their features. Observe objects, materials, living things and changes over time, sorting and grouping them based on their features and explaining their reasoning.</p> <p>Data can be recorded and displayed in different ways, including tables, charts, pictograms and drawings. Use a range of methods (tables, charts, diagrams and Venn diagrams) to gather and record simple data with some accuracy.</p> <p>Begin to notice patterns and relationships in their data and explain what they have done and found out using simple scientific language. The results are information that has been found out from an investigation and can be used to answer a question.</p>
Materials	<p>A material's physical properties make it suitable for particular purposes, such as glass for windows and brick for building walls. Many materials are used for more than one purpose, such as metal for cutlery and cars.</p> <p>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</p> <p>Compare the suitability of a range of everyday materials for particular uses.</p> <p>Some objects and materials can be changed by squashing, bending, twisting, stretching, heating, cooling, mixing and being left to decay.</p> <p>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p> <p>Describe how some objects and materials can be changed and how these changes can be desirable or undesirable.</p>