



Year Two Science: Uses of Everyday Materials

Key Knowledge

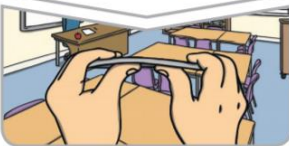
Properties of Materials

 <p>wood: hard, stiff, strong, opaque, can be carved into any shape.</p>	 <p>glass: waterproof, transparent, hard, smooth.</p>
 <p>plastic: waterproof, strong, can be made to be flexible or stiff, smooth or rough.</p>	 <p>metal: strong, hard, easy to wash.</p>
 <p>paper: lightweight, flexible.</p>	 <p>cardboard: strong, light, stiff.</p>
 <p>fabric: soft, flexible, hard-wearing, can be stretchy, warm, absorbent.</p>	 <p>rubber: hard-wearing, elastic, flexible, strong.</p>

Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



Stretch an object by pulling your hands slowly and gently apart.





Absorbent

Can soak up liquid easily.

Flexible

Bending without breaking.

Key Vocabulary

Materials	Materials are what objects are made from
Properties	This is what a material is like and how it behaves (soft, stretchy, waterproof)
Suitability	Suitability means having the properties which are right for a specific purpose
Transparent	Objects behind can be seen clearly.
Translucent	A material which allows light to pass through but is not clear.
Opaque	A material which does not allow light to pass.
John McAdam	 <p>A Scottish engineer who experimented with using new materials to build roads, inventing a new process called 'macadamisation'. His process was so successful that roads were built in this way right across the world.</p>
Julie Brusaw	 <p>An American scientist who has developed technologies within roads to use Solar power from the Sun.</p>

Skills

Observe	To watch and look carefully to notice even small details														
Table	<p>Where you record data and information.</p> <p>How many marbles can children on my table hold?</p> <table border="1"> <tr> <td>Name</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Number of marbles held</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Name							Number of marbles held						
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Number of marbles held															
Data	Information that you have gathered from a test, experiment or research														