

Knowledge Organiser – Science – Autumn Term : Materials



Enquiry questions.  
 Would a Tudor house really be so bad?  
 Are paper towels the best material for a spillage?

Key ideas	
<p><i>Identify and compare the suitability of a variety of everyday materials for a particular use.</i></p>	<p><i>Find out how the shapes of some solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</i></p>
<p><i>Working scientifically: asking simple questions and recognising that they can be answered in different ways.</i></p> <p><i>Observing closely, using simple equipment.</i></p> <p><i>Performing simple tests</i></p> <p><i>Identifying and classifying gather and record data, using observations and ideas to suggest answers to questions.</i></p>	

Tier 3 vocabulary	
<p><b>Transparent</b></p> <p><b>Translucent</b></p> <p><b>Opaque</b></p>	<p>Changing the shape of materials:</p> <p style="text-align: center;"><b>Squash Bend Twist Stretch</b></p>
<p><b>Reflective:</b> When light bounces back off a material.</p>	<p><b>Absorbent:</b> A material which can soak up liquid.</p>
<p style="font-size: 2em; font-weight: bold;">Flexible</p> <p>Flexible materials can easily be bent without breaking.</p>	<p><b>Rigid:</b> Stiff and not flexible</p> <p style="color: red; font-weight: bold;">A brick is rigid and hard</p>
	<p style="font-size: 2em; font-weight: bold;">Waterproof</p> <p>Waterproof materials do not let any water through nor do they soak up any water.</p>

Investigation skills	
<p><b>Predict:</b> What do you think will happen?</p>	<p><b>Record:</b> Using tables, diagrams and pictures to record the findings.</p>
<p><b>Evaluate:</b> Were the results as expected?</p>	<p><b>Conclusion:</b> What did you learn?</p>