









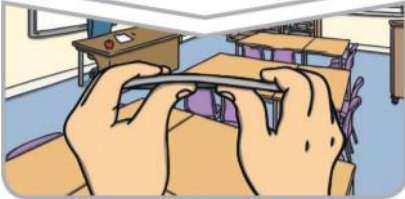




Uses of Materials Science Knowledge Organiser - Year 2 – Autumn Term 2

Vocabulary	Properties of Materials	Prior Knowledge
<p>Materials - What objects are made out of</p> <p>Properties - What the material is like and how it behaves</p> <p>Suitability - Having the properties which are right for a specific purpose</p> <p>Waterproof - Keeps the water out. Keeps things dry</p> <p>Flexible - Will bend easily</p> <p>Stiff - Will not bend</p> <p>Rough - Feels bumpy and textured</p> <p>Absorbent - Soaks up water</p> <p>Dull - Doesn't reflect light, doesn't look bright or shiny</p> <p>Shiny - Reflects light easily</p> <p>Opaque - Not see through</p> <p>Transparent - See through</p> <p>Translucent - Allows light through but no detail</p>	<div>  <p>wood: hard, stiff, strong, opaque, can be carved into any shape.</p> </div> <div>  <p>glass: waterproof, transparent, hard, smooth.</p> </div> <div>  <p>plastic: waterproof, strong, can be made to be flexible or stiff, smooth or rough.</p> </div> <div>  <p>metal: strong, hard, easy to wash.</p> </div> <div>  <p>paper: lightweight, flexible.</p> </div> <div>  <p>cardboard: strong, light, stiff.</p> </div> <div>  <p>fabric: soft, flexible, hard-wearing, can be stretchy, warm, absorbent.</p> </div> <div>  <p>rubber: hard-wearing, elastic, flexible, strong.</p> </div>	<ul style="list-style-type: none"> • Can distinguish between an object and the material from which it is made. • Can identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock. • Can describe simple physical properties of a variety of everyday materials. • Can compare and group together a variety of everyday materials on the basis of their simple physical properties.
		<h3>Property Testing</h3> <div>  <ul style="list-style-type: none"> • What did you do? • What did you find out? • Did anything surprise you? • Why? </div>

Shapes of solid objects made from some materials can be changed	Type of Science
<div> <p>Squash an object by pushing both hands together.</p>  </div> <div> <p>Bend an object by grabbing both ends of the object and bringing the ends inwards together.</p>  </div> <div> <p>Twist an object by turning your hands in opposite directions.</p>  </div> <div> <p>Stretch an object by pulling your hands slowly and gently apart.</p>  </div>	