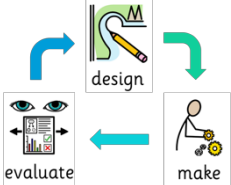

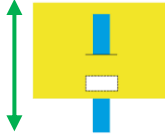


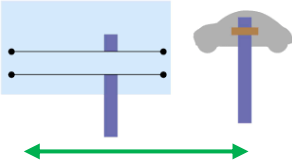
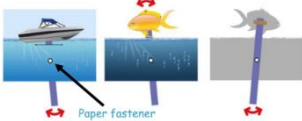

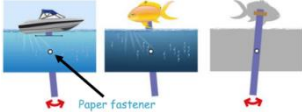








# Year 1 – Spring – DT – Pupil Knowledge Organiser



What do I already know?	What am I learning now?		
<ul style="list-style-type: none"> <li>Design Technology is about designing a product for a specific purpose.</li> <li>The process we follow is Design, Make, Evaluate.</li> <li>We can join materials using a range of methods, e.g. glue, staples, stitching.</li> </ul>	<ol style="list-style-type: none"> <li>How do slider mechanisms create movement?</li> <li>How do simple lever mechanisms create movement?</li> <li>Can I apply my learning to design a product?</li> <li>How do we bring our design to life?</li> <li>How do we assemble our mechanisms?</li> <li>How well does our product meet our design criteria?</li> </ol> 		
Key Knowledge: Mechanisms	Design, Make, Evaluate	Key Vocabulary	
<p>Simple mechanisms move in different ways:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>in a straight line</p> </div> <div style="text-align: center;">  <p>Sliders move in straight lines, for example up and down.</p> </div> <div style="text-align: center;">  <p>Levers move in a curve, left to right, around the pivot (split pin/paper fastener).</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>in a straight line, both backwards and forwards</p> </div> <div style="text-align: center;">  <p>They can also move in straight lines, left to right.</p> </div> <div style="text-align: center;">  <p>Here a card strip is used as the lever and is pushed through a slot in the backing card.</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>round and round</p> </div> <div style="text-align: center;"> <p>Here a track has been cut out of the backing card to let the slider through.</p> </div> <div style="text-align: center;">  <p>The top is then attached to a decorative item.</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>in a curve/arch</p> </div> <div style="text-align: center;"> <p>A decorative item is then attached to the top.</p> <p>The bottom is the handle.</p> </div> <div style="text-align: center;"> <p>The bottom is the handle.</p> </div> </div>	<p>In Design and Technology, we follow a process:</p> <div style="text-align: center;">  <p>design</p> </div> <p>Come up with ideas based on who will use our product and what for.</p> <div style="text-align: center;">  <p>make</p> </div> <p>Safely assemble, join and combine materials.</p> <div style="text-align: center;">  <p>evaluate</p> </div> <p>Discuss what is good based on who will use the product and what for.</p>	<p>push</p> <p>pull</p> <p>slider</p> <p>lever</p> <p>fulcrum</p> <p>pivot</p> <p>slot</p> <p>design</p> <p>evaluate</p> <p>audience</p>	<p>Applying a force to move something away.</p> <p>Applying a force to move something closer.</p> <p>A mechanism that moves backwards and forwards in a straight line along a fixed track or rail.</p> <p>A mechanism where a long bar moves around a fixed point.</p> <p>The point where something can balance and pivot.</p> <p>A shaft or pin on which something turns.</p> <p>A long, narrow slit for something to be inserted.</p> <p>To think up and plan something based on a specific purpose.</p> <p>To explore how well something meets the purpose it was made for.</p> <p>A group that listens to, watches or uses a product.</p>