

# KNOWLEDGE ORGANISER – St Gregory’s RC Primary School

**Topic: Design Technology**

**Year Group: 1 Spring 1**

**Strand: Mechanisms - Sliders and Levers – Mother’s Day Card**

What I should already know	Sticky knowledge	Key skills
<ul style="list-style-type: none"> <li>I can operate mechanical toys by turning the knob on a wind-up toy and pulling back on a friction car.</li> <li>I can make toys work by pressing parts or lifting flaps to make it move or make a sound.</li> <li>I can construct for a purpose using different resource</li> </ul>	<ul style="list-style-type: none"> <li>I know that mechanisms are the parts that make something work</li> <li>I know some existing products which use leavers and sliders.</li> <li>I know how to create a working slider</li> <li>I know how to create a working leaver.</li> <li>I know what a plan/ design is.</li> <li>I know how to make a moving picture with leavers and sliders</li> <li>I know how to make my mechanism stronger.</li> </ul>	<p><b>Design:</b> I can use own ideas to design something that moves. I can describe how my idea works.</p> <p><b>Make:</b> With support, I can cut and shape paper/ card. With support, I can attach card using temporary methods (glue and tape) I can name the tools I am using.</p> <p><b>Evaluate:</b> I can use a guide to make a slider stronger and more stable I can say what I like and do not like about my product and begin to explain why.</p> <p><b>Technical Knowledge:</b> I can use a guide to make a slider stronger and more stable</p>
Design brief		
<p>Can you make a Valentine’s Day Card for your family that has at least one moving part? Remember to think about the colours and materials that you are going to use so that they will enjoy receiving your card.</p>		

Vocabulary		Diagrams/Pictures
Bridge	Something that helps to strengthen a slider.	<p>The diagrams show five examples of mechanisms. Top left: A green car on a grey slider with a purple support. Top right: A green car on a brown lever with a purple support. Middle left: A boat on a pivot with a purple support. Middle right: A yellow fish on a lever with a purple support. Bottom right: A grey fish on a slider with a purple support. A green double-headed arrow is between the top two diagrams, and red curved arrows are at the bottom of the fish diagrams.</p>
Design	A plan that shows what you are going to make	
Evaluate	Make a judgement on how good a product is.	
Guide	Something that helps to change how a slider or leavers moves	
Leaver	A mechanism which makes something move on a pivot	
Make	A way to create something by putting parts together	
Mechanisms	A part that makes something move.	
Pivot	A pivot is when something turns or rotates.	
Slider	A mechanism that slides either left and right, or up and down	
Slot	A slit in something that you can insert a slider	

