



Key Facts	Designers/styles	
<ul style="list-style-type: none"> <li>Function: Sliders and levers are used to create movement and change in a design. They have a specific function and are designed to perform a certain task.</li> <li>Design Process: The design process involves identifying a problem, generating ideas, creating a prototype, testing and evaluating the prototype, and refining the design based on feedback.</li> <li>Materials: Different materials can be used to create sliders and levers, and the choice of material can affect the function and durability of the design.</li> <li>Creativity: Design technology allows for creativity and innovation, as students are encouraged to come up with their own ideas and solutions to problems.</li> </ul>	<p>KS1 - Simple slider</p> <p>KS1 - Simple lever</p> <p>Guide/bridge on back of picture</p> <p>Paper fastener pivot</p> <p>Sliders move from side to side and up and down</p> <p>Use a single hole punch to make a hole then cut a slot</p> <p>Tape or staple car onto card strip</p> <p>Tape or staple car onto card strip</p> <p>Sticky fixers on back of card strip</p> <p>A card strip could be used instead of cutting slots to allow movement</p> <p>Masking tape</p> <p>Rabbit moves up and down</p> <p>Levers can be used with or without a slot</p> <p>Paper fastener</p> <p>As an enhancement to this project children could add flaps to their moving pictures. Some children may find flaps, which can be used to make a picture appear and disappear, easier to make than levers or sliders.</p> <p>Where children have a particularly good understanding of levers and sliders in Key Stage 1, they could be introduced to the simplest lever and linkage mechanism used in Key Stage 2. This will introduce them to the idea of loose and fixed pivots.</p> <p>● Fixed pivot ○ Loose pivot</p>	
Key Learning:	Prior Learning:	Books for support/ Enrichment Opportunities:
<ul style="list-style-type: none"> <li>To understand what sliders and levers are</li> <li>To identify sliders and levers in everyday objects</li> <li>To design and create simple sliders and levers</li> <li>To use sliders and levers to create movement and change in a design</li> </ul>	<ul style="list-style-type: none"> <li>Basic construction techniques and materials through activities such as building with blocks, creating structures with play dough, and using simple tools such as scissors and glue.</li> <li>Cause-and-effect relationships by manipulating objects and observing the outcomes.</li> </ul>	<p>BBC Bitesize: What are sliders and levers? <a href="https://www.bbc.co.uk/bitesize/topics/zt7xk2p/articles/zpbdpbk">https://www.bbc.co.uk/bitesize/topics/zt7xk2p/articles/zpbdpbk</a></p> <p>Teaching Ideas: Design and make a slider <a href="https://www.teachingideas.co.uk/designandtechnology/design-and-make-a-slider">https://www.teachingideas.co.uk/designandtechnology/design-and-make-a-slider</a></p> <p>Twinkl: Sliders and Levers Design Activity Sheet <a href="https://www.twinkl.co.uk/resource/t-t-5016-sliders-and-levers-design-activity-sheet">https://www.twinkl.co.uk/resource/t-t-5016-sliders-and-levers-design-activity-sheet</a></p> <p>YouTube: How do sliders work? <a href="https://www.youtube.com/watch?v=kgFbq-4q_8g">https://www.youtube.com/watch?v=kgFbq-4q_8g</a></p>

Subject Specific Vocabulary	
Key word	Definition
Bridge	a short card strip used to keep sliders in place and control movement.
Design	a plan or drawing produced to show the look and function of an object
Guide	a short card strip used to keep sliders in place and control movement.
Lever	a rigid bar that pivots around a fixed point, used to move a heavy or firmly fixed load
Material	substances used to make something
Mechanism	A device used to create movement in a product
Movement	a change in position or orientation
Prototype	a first or preliminary model of something
Slider	a moving part that slides back and forth along a track or groove
Slot	the hole through which a lever or slider is placed to enable a part of a picture to move.