

## Mechanical Posters



Prior Learning	
<p>This unit will build on the knowledge and skills learned in KS1                  Prior learning will be the understanding of products using levers, wheels and winding mechanisms, designing products which have a clear purpose and intended user, making them and refining the design as the work progresses.</p>	
Key vocabulary for this unit	
Mechanical systems Annotated diagram Prototype Lever Linkage Evaluate Input and output Design criteria Design brief	
Learning Sequence	
<b>Mechanical Systems</b>	<ul style="list-style-type: none"> <li>To investigate and analyse a range of existing lever and linkage mechanisms.</li> </ul>
<b>Levers and Linkages</b>	<ul style="list-style-type: none"> <li>To make a mechanical system following a set of instructions which uses levers and linkages.</li> </ul>
<b>Designing</b>	<ul style="list-style-type: none"> <li>To develop design criteria for an innovative, functional and appealing moving poster to promote recycling that is fit for purpose, aimed at individuals or groups</li> <li>To use annotated sketches to generate and developing ideas to make a moving poster.</li> </ul>
<b>Prototypes</b>	<ul style="list-style-type: none"> <li>To use prototypes to develop ideas.</li> </ul>
<b>Finishing a Product</b>	<ul style="list-style-type: none"> <li>To select and use the correct tools and equipment make a moving poster.</li> <li>To select materials and use different techniques</li> </ul>
<b>Evaluating Our Posters</b>	<ul style="list-style-type: none"> <li>To name the parts and functions of a lever and linkage mechanical system.</li> <li>To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work, in the context of evaluating their moving poster.</li> </ul>

## Assessment milestones

### **Working practically:**

- Generate ideas related to design criteria aimed at a particular audience.
- Use at least 2 different linkages/techniques in a moving poster.

### **Mechanical Knowledge:**

- Recognise and know the difference between a lever and a linkage.
- Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product
- To name the parts and functions of a lever and linkage mechanical system.