

Design & Technology Linkage & Lever Cards Year 3

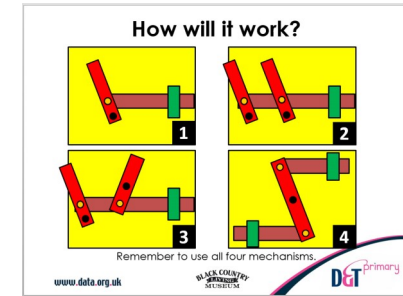
Key Vocabulary

Card	Paper that is thicker than standard—often more sturdy
Linkage	Two moving parts that are linked together and move in relation to each other
Lever	A rigid bar resting or attached to a pivot point and used to lift or move.
Split Pin	A metal pin with two prongs designed to combine two pieces of paper
Design	The process of choosing elements or ideas to create something new
Mechanism	A system of parts working together in a machine.
Pivot	The fixed point, pin or shaft on which a mechanism rotates/moves
Rotate	The movement of an object around a fixed point.
Affect	The impact one object has on another.
Symmetry	The reflection of something in the opposing direction.



Resources

- Paper
- Pencil
- Ruler
- Card Stock
- Split pins
- Colouring pencils
- Coloured Paper



What key knowledge will I have by the end of this unit?

I will know:

- How to design parts that will move in a diagram
- Draw exploded diagrams effectively
- Identify areas of weakness in a design
- How to choose appropriate pieces for specific purposes

What key skills will I have by the end of this unit?

I will develop the skill of:

- Drawing a plan that I will follow
- Practicing with experiments to help inform my design in the future.
- Measuring using a ruler accurately
- Drawing an attractive design based on a moving mechanism
- Test my design throughout the build

In Year 3:	In Year 4:	In Year 5:	
<p>Moving Cards We will create cards that can move using a range of linkages and levers. Our outcome will be a card that can be given to someone.</p>	<p>Roman Chariots We will create a solid frame that can support an axle and wheels, inspired by the chariots used during the Roman period.</p>	<p>Cam Toys We will use our knowledge of axles and frames to use one piece of machinery to move another, ensuring accurate measurements.</p>	