

Year 5 Knowledge Organiser – Pop-up Book



Key Facts:

Input is the motion used to start a mechanism. Output is the motion that happens as a result of the input.



Think of a see-saw, when you sit on your side of the see-saw (input) your friend goes up on the other side. (output)



Key Vocabulary:

- Aesthetic** – How an object or product looks.
- CAD** – Computer-aided-design. To use the computer to design a product, diagram or drawing.
- Caption** – A short piece of writing under a picture that describes or explains the picture.
- Design** – To make, draw or write plans for something.
- Design Brief** – A description of what you are going to design and make and how it will work.
- Design Criteria** – To help designers focus their ideas and test the success of them.
- Exploded-diagram** – A diagram which shows all of the parts of a product including the internal and external parts.
- Function** – How an object or product operates or works.
- Input** – Input is the motion used to start a mechanism.
- Linkage** – A set of bars linked together to form a mechanism.
- Mechanism** – A system of parts working together.
- Motion** – The movement an object makes when controlled by an input or output (e.g. left, right, up, down).
- Output** – Output is the motion that happens as a result of starting the input.
- Pivots** – A shaft or pin on which something turns.

Did you know?



Did you know that the first children's pop-up books were invented in the 1700s? That's over 300 years ago! Lothar Meggendorfer was a well-known pop-up author in the 1800s.

Key Vocabulary: Continued

- Prototype** – A simple model that lets you test out your idea, showing how it will look and work.
- Sliders** – A part of a mechanism which allows an object to move from side-to-side (e.g. left-to-right).
- Structure** – Something which stands, usually on its own.
- Template** – A stencil made of metal, plastic, or paper, used for making many copies of a shape or to help cut material accurately (e.g. biscuit cutter)