

# Year 5: Mechanical systems– Pop-up books

## 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**)

## 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:



**Aesthetic:** How an object or product looks.



**CAD:** Computer-aided-design. To use the computer to design a product, diagram or drawing.



**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.



**Prototype:** A simple model that lets you test out your idea, showing how it will look and work.



**Pivots:** A shaft or pin on which something turns.

