

Year: 5
 Term: Spring 2
 Topic: Mechanical systems - Pop-up books



Where does this learning link to aspirations for the future?

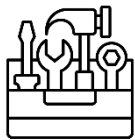
Lothar Meggendorfer was so famous that there is an award named after him to celebrate pop-up books. Maybe you could make a beautiful pop-up book that is published and win the award!

In DT we follow this five step process.

Research



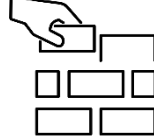
Skills



Design



Make



Evaluate



Glossary

- 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 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.
- pivot** A shaft or pin on which something turns.
- prototype** A simple model that lets you test of your idea, showing how it will look and work.
- sliders** A part of a mechanism, which allows and object to move from side to side.
- structure** Something which stands, usually on its own.

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

input



output

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 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.

