

Year 5 DT Pop-Up Books

Key Skills

1. To design a pop-up book
2. To follow my design brief to make my pop up book
3. To use layers and spacers to cover the working of mechanisms
4. To create a high-quality product suitable for a target user



Vocab/Key Words

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

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).

Sliders—A part of a mechanism which allows an object to move from side-to-side (e.g. left-to-right).

Key Knowledge

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**)

Websites/Signposting/Connection to a famous person

<https://www.youtube.com/watch?v=pZiVuo4wF24>

<https://www.kapowprimary.com/subjects/design-technology/upper-key-stage-2/year-5/mechanical-systems-making-a-pop-up-book/lesson-1-pop-up-book-page-design/>

Previous Learning

- ◆ Slingshot cars (Year 4)
- ◆ Pneumatic toys (Year 3)
- ◆ Moving Monsters and Ferris Wheels (Year 2)
- ◆ Moving storybook and wheels and axles (Year 1)

What I will know/be able to do by the end

- Designing a pop-up book for younger children. After choosing an appropriate story to base their pop-up book on, children draw out the pages, write the captions and specify the mechanisms they will use and the resulting movement they envisage
- I can follow health and safety rules
- I can suggest appropriate design criteria points to fulfil the design brief