

Things I already know

I know how to experiment with levers and sliders to find different ways of making things move in a 2D plane.

Key Facts

Pop-up books are often used for children's stories, educational books and special greeting cards.

They engage readers by adding movement and making stories more interactive.

The earliest pop-up book was created in the 13th century.

Key Vocabulary

Mechanisms - Any tool used to convert or control motion or transmit control or power e.g. seesaw.

Levers - Is a bar with a balance point called the fulcrum. One good example of a lever in action would be a seesaw,

Linkages - A linkage is a mechanism which is made by connecting levers together through joints known as pivot points.

design criteria - A design is a plan that helps people to make a product

pivot - a rod or pin upon which another part rotates, swings, or moves back and forth. e.g. *Bike wheels turn on pivots.*

Questions I can answer

What steps are needed to create a page of a pop-up book?

Why do we need to plan before we create a pop-up book?

What do we know about Pop-up books?

Significant people

Lothar Meggendorfer

FRUITS

Faith – The project fosters confidence in creativity and problem-solving.

Relationships – Collaborative activities, such as group work and peer evaluations, strengthen teamwork and communication skills, fostering positive relationships among students.

Intellect – Engaging in design, investigation, and problem-solving develops critical thinking, engineering skills, and comprehension of mechanical systems.