Design and Technology PKC

Build Pop-Up Books

PKC Primary Knowledge Curriculum

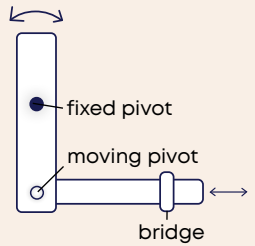
KEY VOCABULARY

mechanism	a **system of component parts** working together **in a machine**
component part	**part** of a mechanism
pivot	a **point** around which an object can **move or rotate**
lever	a mechanism which uses a **bar and a pivot** to **move heavy loads** a lever moves in an **oscillating motion** (in a curve, backwards and forwards) around a pivot – a see saw is an example of a lever
fixed pivot	a pivot which is **fixed in place** to a base structure, it **moves at one point only**
moving pivot	a pivot which is **not fixed** to a base structure and **moves freely**
base structure	the bottom layer of something, to which a pivot can be fixed
slider	a mechanism made up of a **bar** which moves in a **linear motion** (up and down or across) sometimes through a **slot**
linkage	a mechanism that **joins together levers** to **change the direction of motion** – linkages have fixed and moving pivots and create different types of motion
prototype	a **model** to try out or test a product – making prototypes can be part of the **design process**

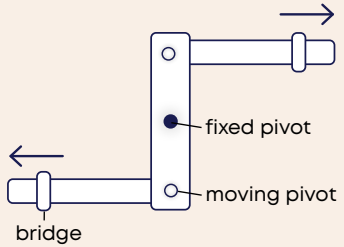
toolbox using linkages

page of a pop-up book using levers and sliders

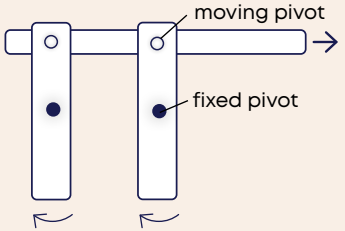
linkage mechanisms



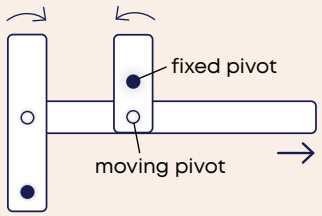
oscillating motion



reverse motion



parallel motion



opposite motion

each different type of linkage creates a different type of motion

design criteria

user
who is the product for?

purpose or **function**
what is the product for?

aesthetic appeal
how is the design of the product pleasing to look at?