

**Design brief**

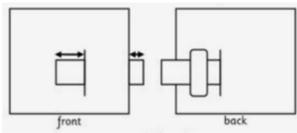
To design and make an interactive factfile using levers, flaps and sliders for a Year 3 student that teaches them about the importance of protecting our oceans.

**Purpose**

To educate about the threats and importance of our oceans.

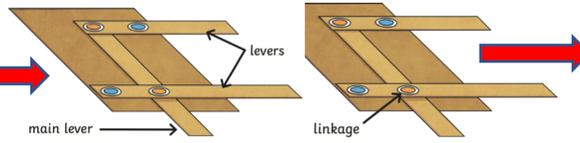
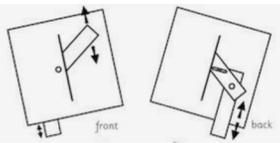
**User**

A 7 – 8 year old who has basic knowledge of the oceans and its marine life.



**Slider and spacer**

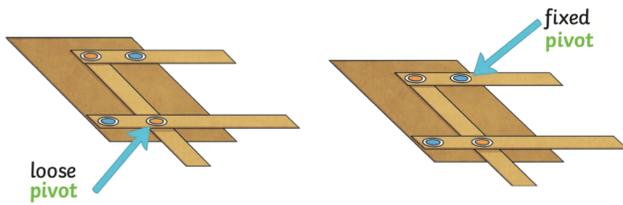
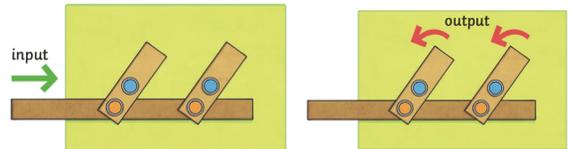
A slider is a mechanism that moves forwards and backwards. It needs spacers to keep it in secure.



**Levers**

A lever is a mechanism with a long arm and linkage, which is where the arm pivots (a turning point).

**Fixed pivot** joins the card strips to the backing card.  
**Loose pivot** joins two card strips together.



**The Design Process**

**Design criteria:** The illustrated factfile must include at least one flap, lever and slider as well as interesting facts about the ocean. It needs to be engaging and informative for a young reader.

**Generating ideas:** Exploring different pop-up books and think about how they could be adapted. Creating an annotated sketch of your idea.



**Prototype:** Explore the first example of what your mechanisms will look like. It is used for testing, development and evaluation.

**Make the product:** Use your annotated sketches and prototype mechanisms to help create your factfile.

**Evaluation:** Check that the product meets the design criteria and has achieved its purpose.

**Vocabulary Tier 2**

- Design
- Investigate
- Build
- Evaluate
- Criteria
- Function
- Make
- Product
- Process
- Motion
- Pivot
- Pull
- Push
- Slot
- Join

**Vocabulary Tier 3**

- Mechanism
- Sliders
- Fastener
- Linkage
- Spacers
- Layer
- Lever
- Loose pivot lever
- Fixed-pivot lever
- Prototype
- Input/Output

