

Making a Moving Picture Card

Design and Technology KS1 Year 2



Making a Moving Picture Card

Design and Technology

Key Stage 1 Year 2

Learning Objectives:

- make a moving picture card
- look at some mechanical systems
- plan, prepare and create a card

Curriculum Links:

The Design, Make and Evaluate aspects are covered.

Technical knowledge:

- build structures, exploring how they can be made stronger, stiffer and more stable
- explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products

Keywords

Mechanism. Lever. Pivot. These can also be found at the end of this PDF.

Before this lesson you will need:

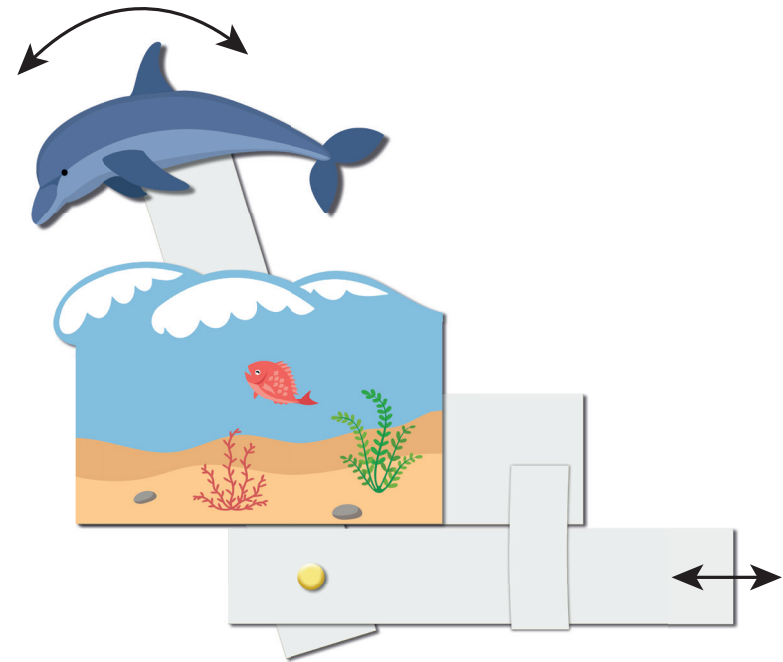
- scissors
- corrugated card
- glue
- brass split pins
- paper or card
- printed dolphin and sea (on the following pages)
- colouring pens (optional, if you would like the children to colour in the pictures)



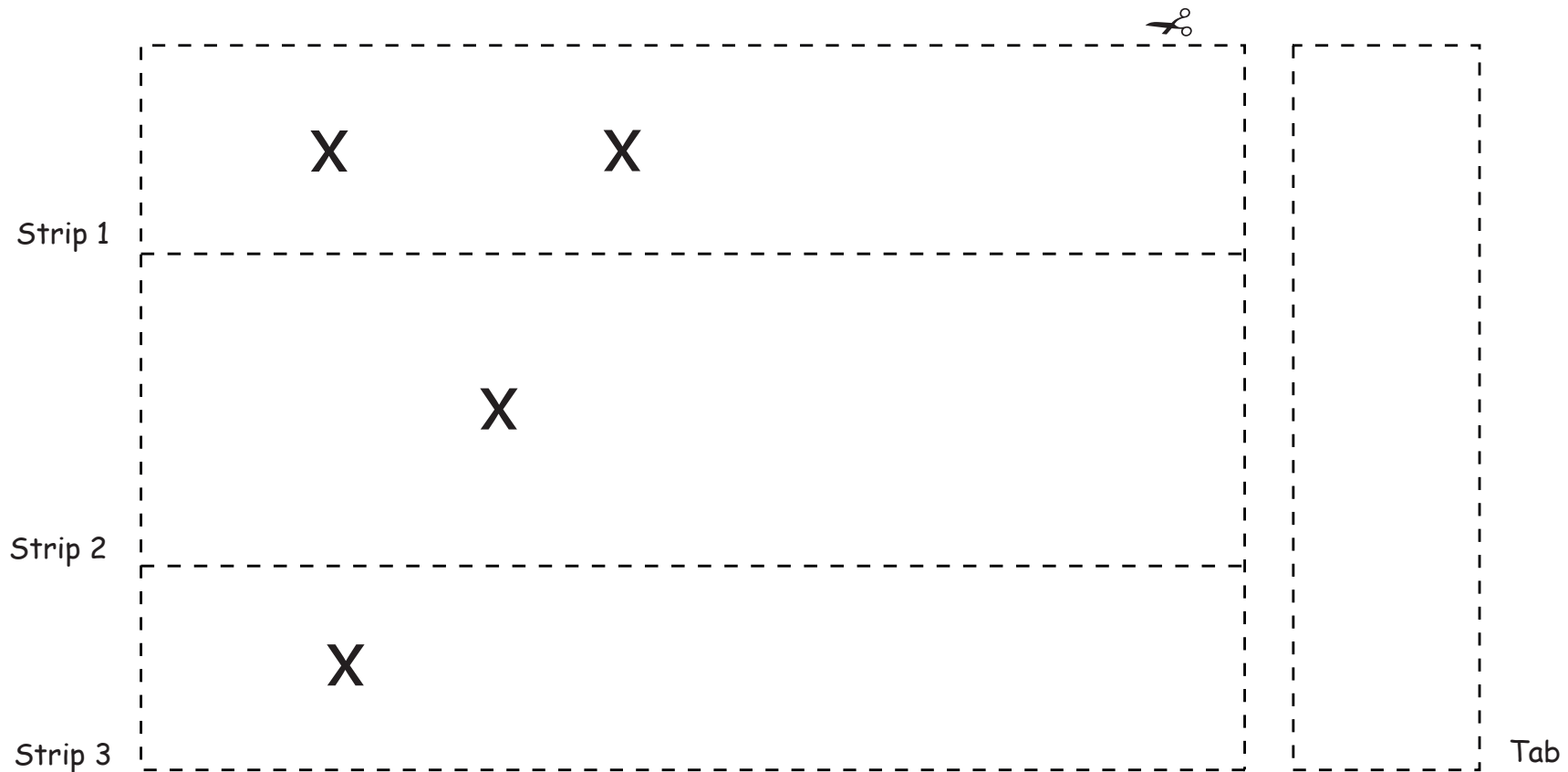
PowerPoint Presentation

The accompanying PowerPoint has 13 slides with the following learning points:

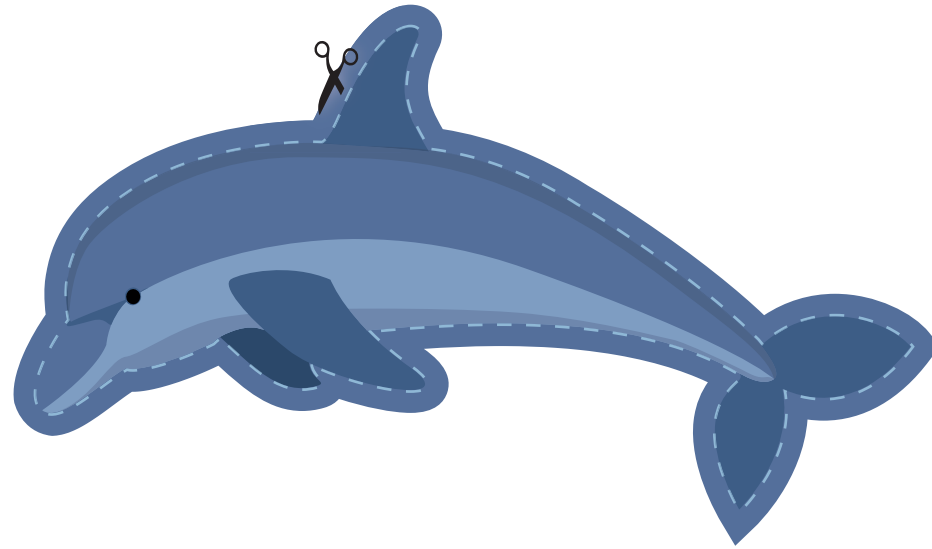
- Slides 1 and 2 introduce the lesson.
- Slide 3 introduces turning mechanisms.
- Slide 4 explains levers and pivots
- Slides 5 and 6 demonstrate a seesaw using levers and pivots
- Slide 7 is a simple example of a sliding card
- Slide 8 the children plan their own moving picture card
- Slide 9 the children ensure they have all the appropriate tools
- Slide 10 asks the children to follow the instructions on their printed sheet to create their card. The children will need help making any holes in the card and using split pins.
- Slide 11 goes through the safety measures the children need to consider.
- Slide 12 Evaluation.
- Slide 13 is the closing slide.



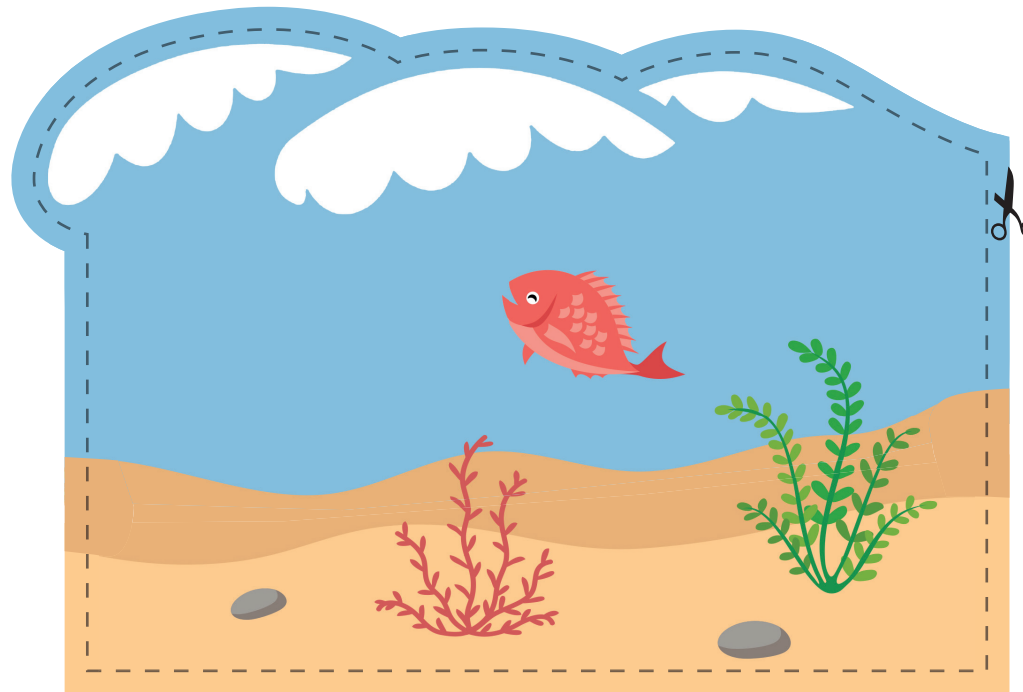
Making a Moving Picture Card Template



Dolphin



Sea



Making a Moving Picture Card

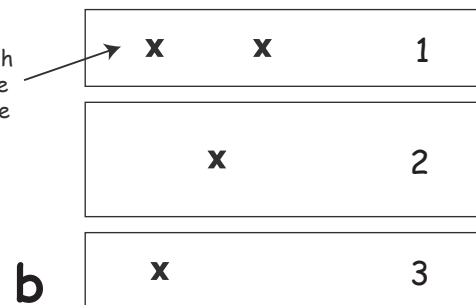
You will need:

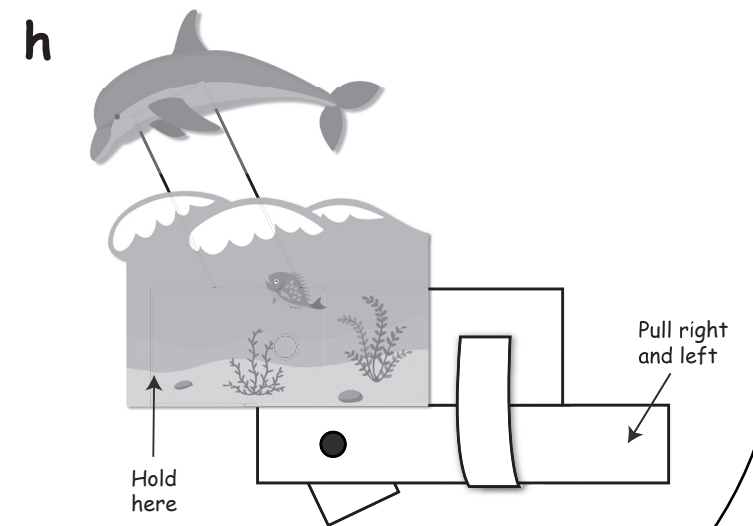
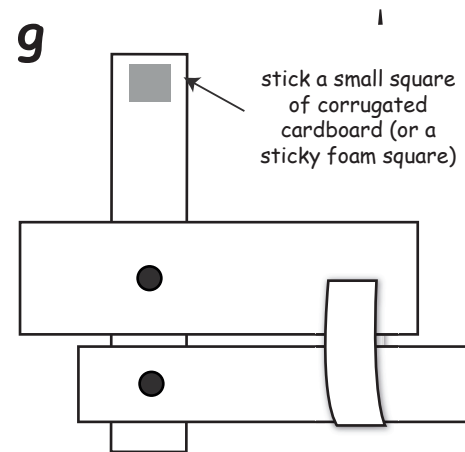
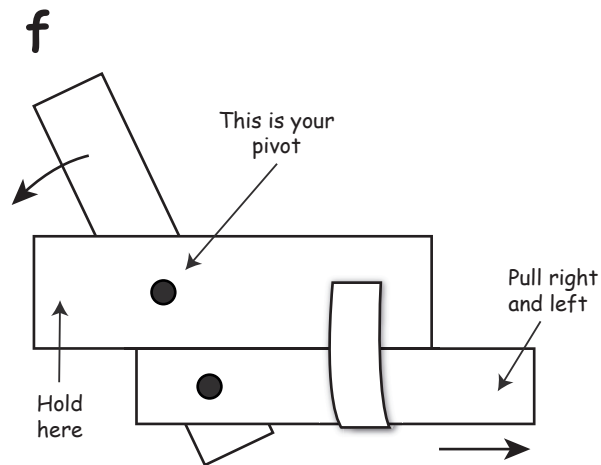
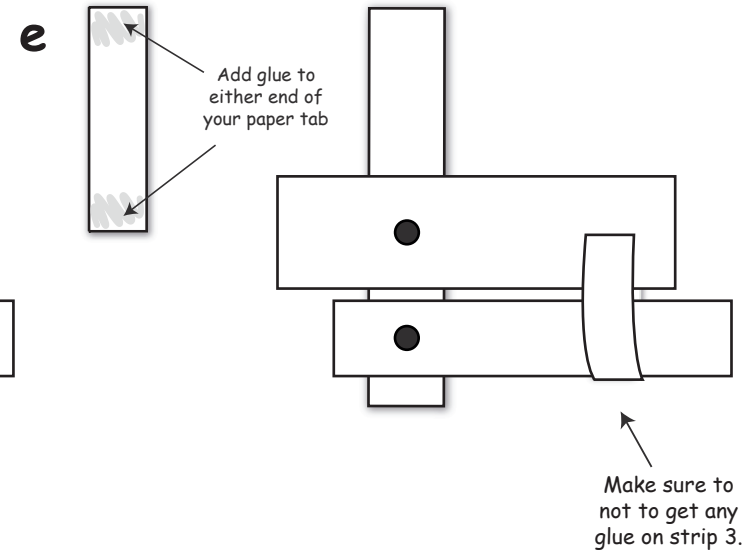
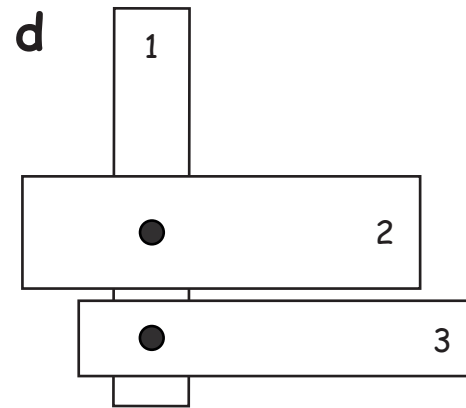
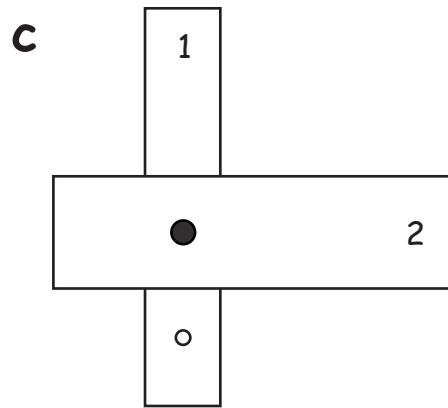
Paper, A4 printer card, scissors, split pins, a pencil, glue stick, corrugated cardboard, printed dolphin and sea.

1. Print page 3, this is your template. Print page 4 onto printer card, this is your design.
2. Stick your paper template to some corrugated card (a) and carefully cut them out (b).
3. Using a pencil, poke a hole through the card wherever there is an X (b).
4. Lay strip 1 vertically with the holes at the bottom. Lay strip 2 horizontally on top so the hole lines up with the top hole of strip 1. Insert your first split pin and fasten at the back (c).
5. Lay strip 3 horizontally over strip 1 below strip 2 and line up the hole with the bottom hole of strip 1. Insert your second split pin and fasten at the back (d).
6. Use your cut out paper tab to secure strips 2 and 3 as shown. It's important not to get any glue on strip 3 (e).
7. Test your pivot as shown (f).
8. Now it's time to add your design. Cut out your dolphin and sea carefully.
9. Cut out a small square of corrugated cardboard and stick at the top of strip 1 (g), then stick your dolphin on top. Stick your sea on to the left end of strip 2 (h).
10. Hold card as shown and watch your dolphin jump over the waves! (h)



Make holes through at these x's all the way through to the other side





Making a Moving Picture Card: Keywords Flashcards



Mechanism

Lever

Pivot



Mechanism



Lever



Pivot

