

Lesson plan

Lessons 2, 3 and 4 could be run together as a circus of activities to alleviate resource requirements, i.e. if few construction kits are available.

Learning objectives

Children should learn:

- to make simple sliding mechanisms;
- how to use tools (e.g. scissors and a hole punch) safely.

Learning outcomes

Children:

- (with some adult support) assemble strips of card to make simple slider mechanisms;
- use tools safely.

Vocabulary

slider

Programme of Study Coverage

2 Pupils should be taught to:

- select tools, techniques and materials for making their product from a range suggested by the teacher
- measure, mark out, cut and shape a range of materials
- assemble, join and combine materials and components.

5 Pupils should be taught the **Knowledge, skills and understanding** through:

- focused practical tasks that develop a range of techniques, skills, processes and knowledge.

- making a slit by folding card and cutting across the fold before opening out;
- adding another piece of card by means of adhesive putty or sticky pads to act as a cover to hold the sliding strip;
- adding strips of card using adhesive putty or sticky pads to act as a guide for the sliding strip.

Activity

Ask the children to try and make their own sliders using one of the ideas that they have seen.

Introduction

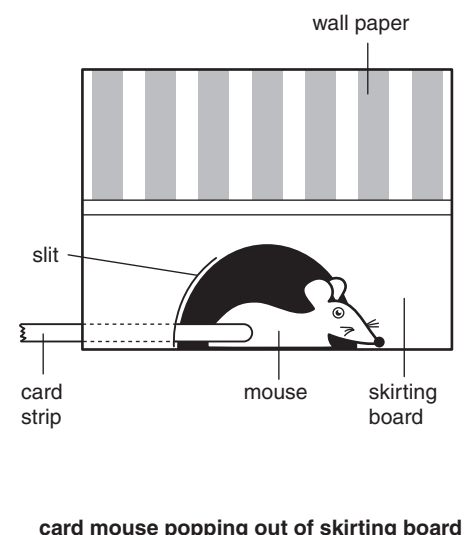
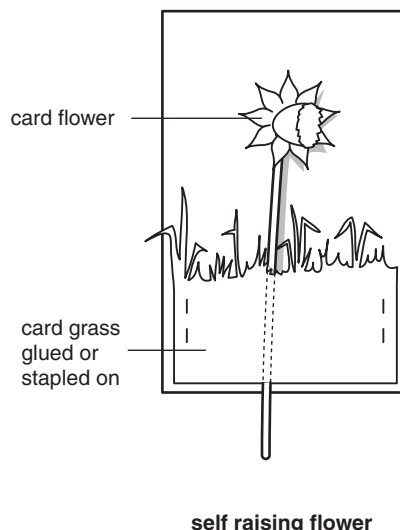
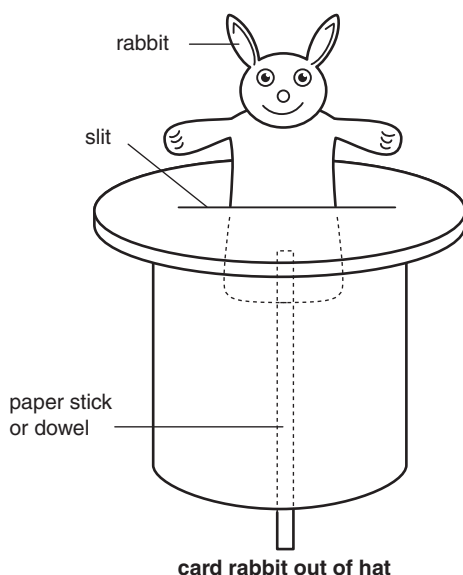
Show the children the pictures of the sliding mechanisms in the *Flipbook* page 1. Talk about the different types of sliding mechanisms. Ask these questions.

- What types of sliding mechanism have you seen?
- Which do you like best? Why?

Demonstrating the skills

Show the children the diagrams in the *Flipbook* page 1 that show how to make a simple slider. Show the children how to make a simple sliding mechanism from card. Techniques/skills they will need to be shown include:

- cutting away from them, and turning the card being cut when corners are reached;



Finishing off

Ask these questions.

- How could you use a slider to make something move?
- How would you make a simple slider?
- How could you make sure that you worked safely?

Differentiation

More able children could try their own ideas for sliders, but less confident children may need the security of a plans such those on resource sheets: slider templates 1 and 2 (pages 12 and 13).

Notes

Resources and preparation

You will need:

- *Flipbook*;
- some samples of simple card sliding mechanisms as shown in the *Flipbook* page 1 for the children to investigate;
- resource sheets: slider templates 1 and 2 photocopied onto card if required;
- paper trimmer;
- adhesive putty;
- card;
- coloured crayons or felt tip pens;
- cutting mats;
- glue and spreaders or glue sticks;

- masking tape;
- mini staplers;
- pencils;
- scissors;
- standard and jumbo paper straws;
- sticky pads.

Health and safety

Teach children that they must cut away from them and turn material being cut when corners are reached.

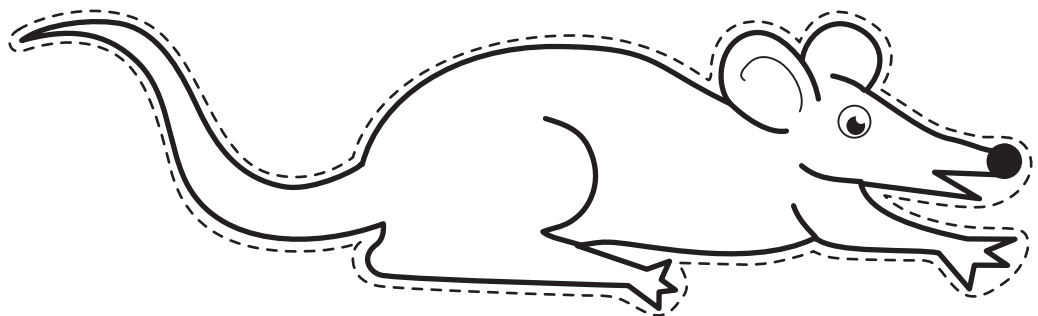
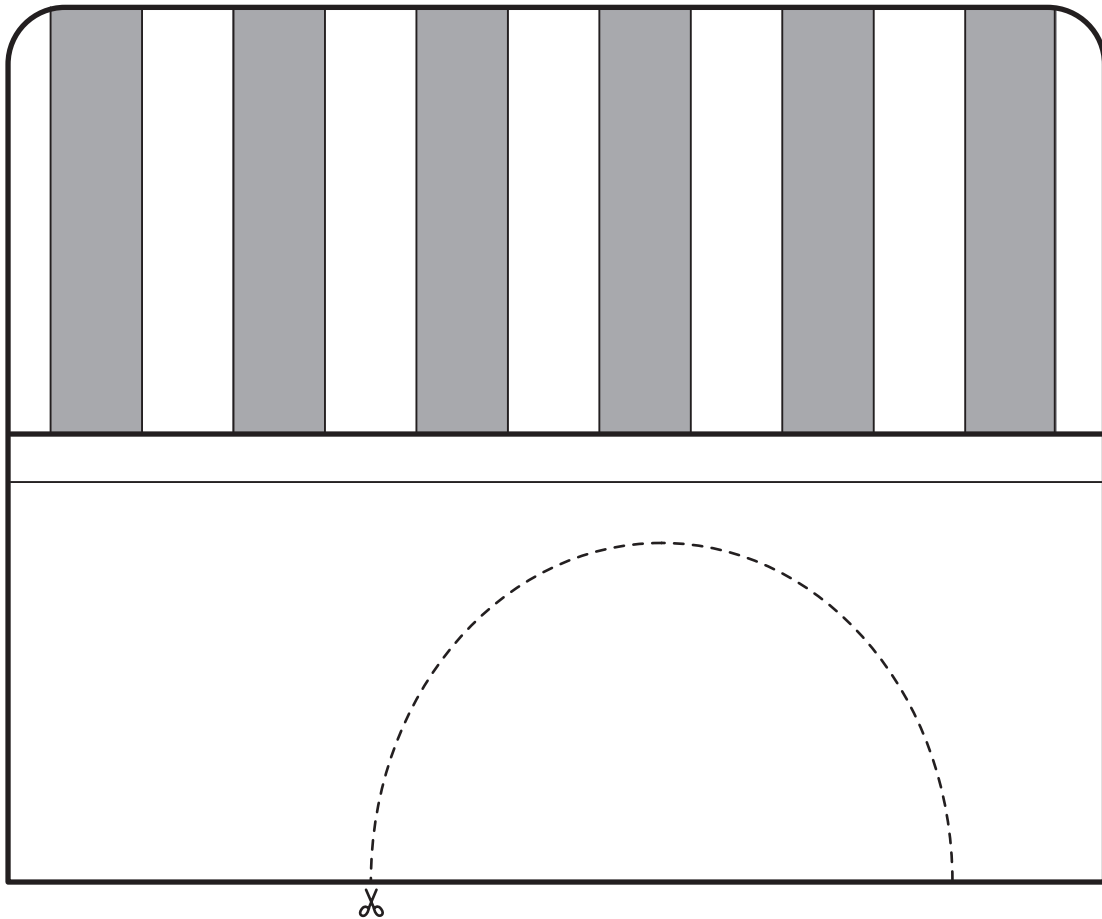
Further ideas

Save some of the sliders children make as a stimulus for future groups.

Your evaluation

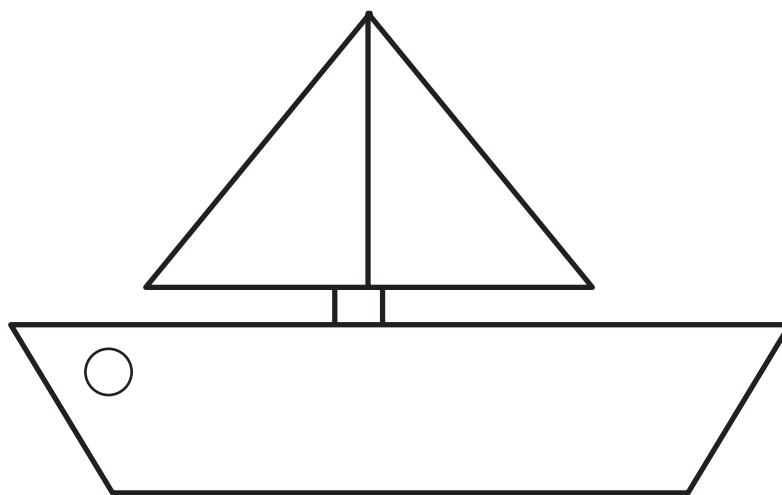
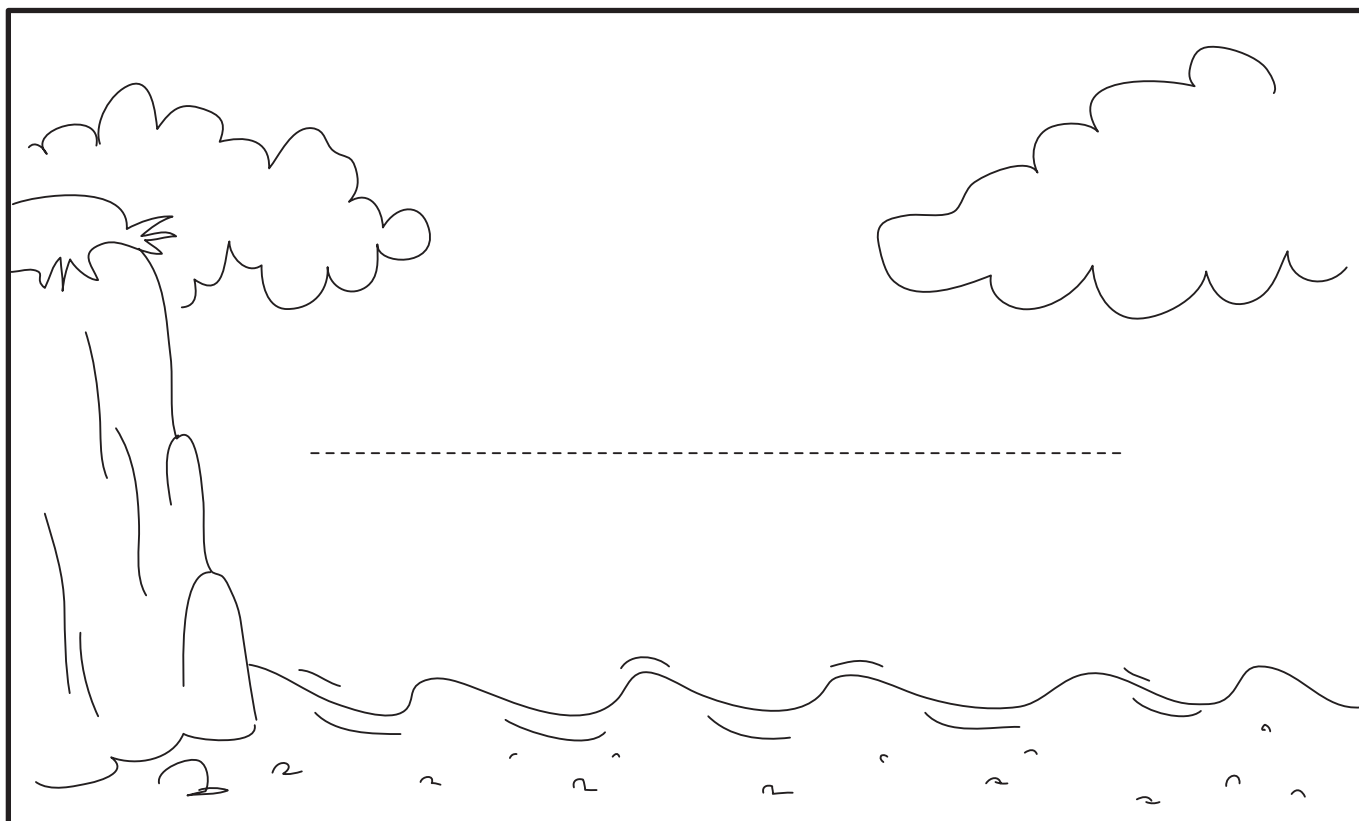
Resource sheet: slider templates 1

Cut out the mouse and the wall.



Use an art straw sliding mechanism to make the mouse run out of the hole.

Resource sheet: slider templates 2



Cut out the beach picture and the boat.

Cut a slit along the dotted line in the sea.

Stick a card strip on the back of the boat.

Slide it along the sea.