

# Making Boxes

**You need**  a classmate  paints, crayons, or felt-tip pens  
 different-shaped small boxes  scissors  tape  
 light cardboard  a ruler  square grid paper

**A net is a pattern of polygons that can be folded up to form a solid shape called a polyhedron.**

## Activity

Room 7 are making boxes to put sweets in.

- Follow these instructions to make your own box.
  - Carefully pull apart two or three different-shaped boxes and look at the nets.
  - Design a net for a smaller version of your box on square grid paper.
  - Cut out the net and make up the box.
  - If you like the design, enlarge the net and copy it onto cardboard. The base needs to be at least 5 centimetres by 5 centimetres square.
  - If you don't like your box, design another net.
- Now you are ready to decorate the net and make it up.
  - Make a stencil to use to decorate the net.
  - Use the stencil to decorate one face of the net.
  - Translate, reflect, or rotate the design onto the other faces of the net.
  - Tape your box together.
  - Show your box to a classmate and describe your design.