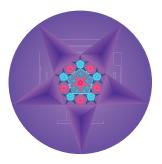
Kaleidoscope



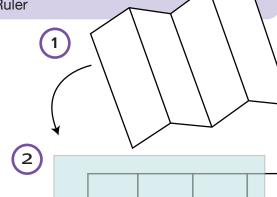


- **1.** Fold the postcard in half and then in half again as shown.
- 2. Cut the plastic to the same size as the postcard.
- **3.** Lay the plastic on top of the postcard and use a ruler to score lines on it to match the postcard folds.
- **4.** Cut out a piece of foil the same size as the postcard.
- **5.** Glue the foil onto the postcard.
- **6.** Lay the plastic on the foil and fold the postcard into a triangular tube, then tape together.
- 7. Cut out a piece of tracing paper larger than the end of the tube.
- **8.** Draw a coloured pattern on the tracing paper.
- **9.** Look through one end of the tube and hold the patterned tracing paper at the other.
- **10.** Point the kaleidoscope to the light and move the paper around.

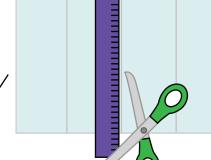
Resources (per kaleidoscope):

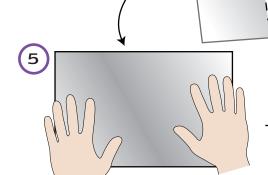
- Postcard
- Stiff plastic
- Foil
- Sticky tape
- Tracing paper
- Coloured pens
- Scissors

















Explaining the Science

The foil inside the kaleidoscope acts like a mirror and reflects the light that shines through the patterned tracing paper. This reflected light then reflects from the other foiled sides of the kaleidoscope, creating interesting patterns.

