

F-2: REMOTE MATHS

EDITION 17

GEOMETRY - INVESTIGATIONS

Mathematical language: shape, square, triangle, sides, corners, lines, pattern.

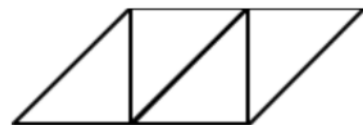
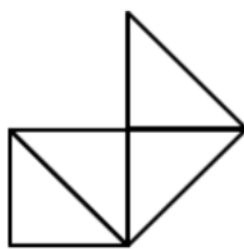
INVESTIGATION 1: TRIANGLES

PART 1: TRIANGLE DESIGNS

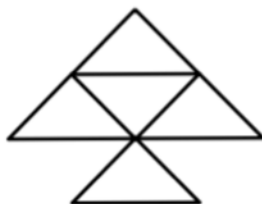
In this task you will be exploring a special triangle called an isosceles triangle. You'll need triangles, scissors (poster paper and glue optional).

- Cut out [20 triangles](#).
- Using only 4 triangles, arrange them to make a shape using these rules:
 - No gaps or overlapping between the triangles,
 - Each triangle must touch at least one other triangle, and
 - Triangles must touch along the same length side.
- How many different shapes can you make using the four triangles?
- Create a poster with all of your shapes.

Like this:



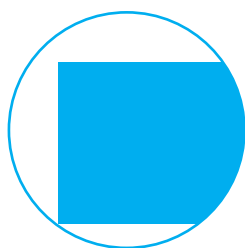
Not like this:



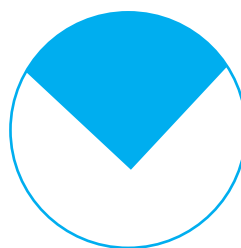
INVESTIGATION 2: VISUALISING SHAPES

PART 1: HIDDEN SHAPES *Adapted from C Danielson*

- Below are a set of shapes. You cannot see the whole shape, rather just a section of them. Imagine you are looking at parts of the shape through a microscope.
- For each image, draw and label the shapes that could be partially hidden.



- Could this be a rectangle?
- What else could it be?



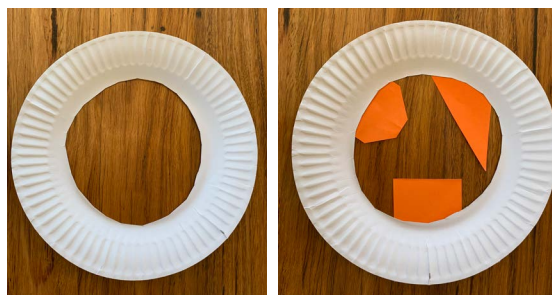
- Could this be a triangle?
- What about a square?
- What else could it be?

PART 2: HIDING SHAPES

Materials: paper plate, paper, scissors

Now it is your turn to hide some shapes!

- Cut out the insides of a paper plate.
- Using the paper, cut out some 2D shapes.
- Hide the shape using the paper plate.
- Take a photo or draw what you have made.
- Ask a family member to guess your hidden shapes.



Look out for more tasks next week!

