

A Shape Stays the Same Shape

Elaboration 2 · Turning and flipping shapes without changing them

ELABORATION FOCUS

Manipulating shapes and recognising that different orientations do not change the shape; a cut-out shape keeps its name even when it is upside down or on its side.

LEARNING INTENTION I can name a shape even when it is turned around.

Turn

Flip

Same

Name

Sides

1

Cut It Out

Step 1: cut out a paper shape.
Step 2: count its sides and name it.

2

Turn It Around

Step 3: turn the shape on its side. Step 4: count the sides again.

3

Check the Name

Step 5: the count has not changed. Step 6: so the name has not changed.

MODEL · ONE TRIANGLE, FOUR POSITIONS

The same triangle is turned to a new position each time, and it is still a triangle.



start



turned



on its side



upside down

If the number of sides has not changed, the name of the shape has not changed.

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Deciding a shape has a new name because it is tilted or upside down.

REMEMBER

Say it to students as: "Count the sides again. Has anything really changed?"

MATERIALS

Card shapes, scissors, paper cut-outs, geoboards, mirrors, blu-tack.

Teacher note: hand each student a cut-out shape and ask them to turn it as they name it. Students who only meet shapes sitting flat on a page often build a very narrow idea of what a triangle looks like.