

Spectacular Symmetry



twinkl

Lesson 1

Aim

- I can recognise line symmetry in 2D shapes.

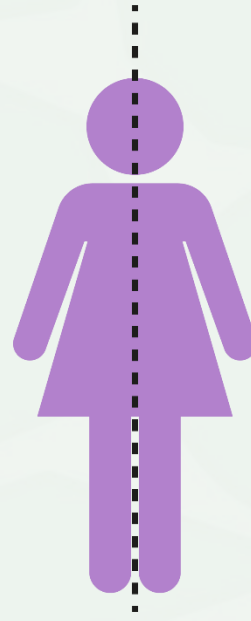
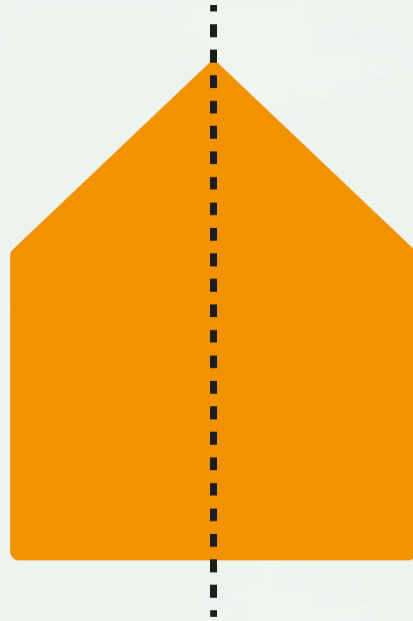
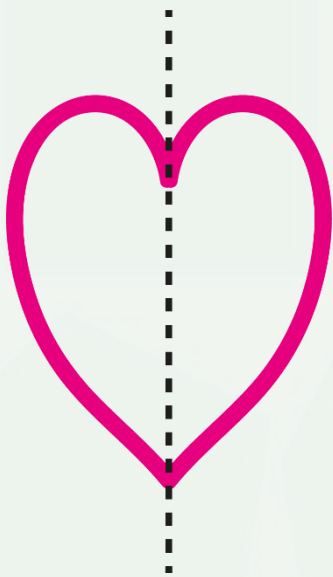
Success Criteria

- I can fold 2D shapes to explore symmetry.
- I can draw the lines of symmetry.

Symmetry

Reflective Symmetry

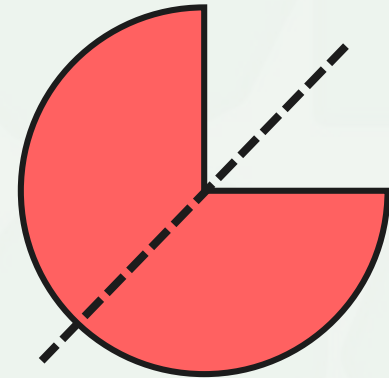
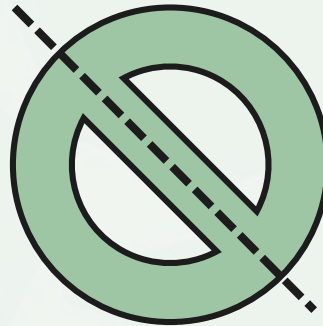
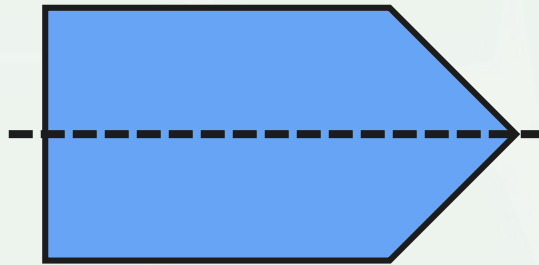
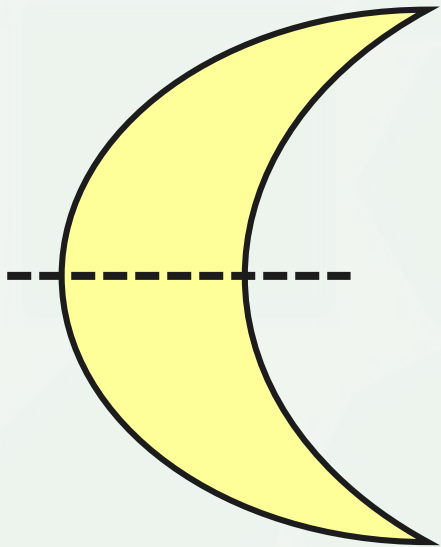
Reflection symmetry is where one half of the image is the reflection of the other half. You could fold the image and have both halves match exactly.



Symmetry

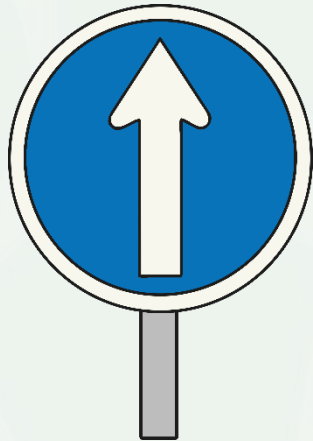
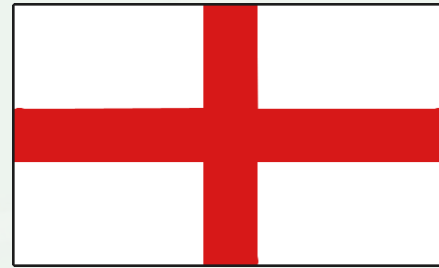
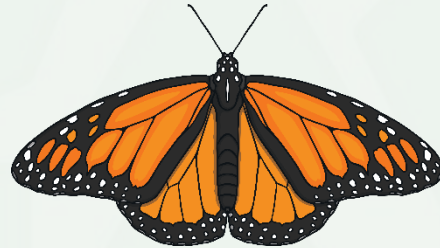
Reflective Symmetry

Reflection symmetry can be in different orientations.



Symmetry

Lots of real life objects are symmetrical.



Butterfly Patterns



Divide a paper in half with a line and pretend the two halves are butterfly wings.
Make a symmetrical pattern with a partner.

One person draws a 2D shape on one wing and the other person draws the same shape in the correct position on the other wing. Take turns to draw on each wing..



1. Look at the shapes in activity 1.

Cut out the shapes and see if you can fold them to find one line of symmetry.

Draw down the line of symmetry fold.

2. Put the shapes that don't have a line of symmetry in the bin.

3. Let's take another look at the shapes with one line of symmetry!

Have they any more lines of symmetry?

Find them by folding and drawing down the lines of symmetry.

eg. The square has 4 lines of symmetry!

4. Look at activity 2.

This time don't cut the shapes out. See if you can just draw the lines of symmetry. Some of the shapes don't have one!

Lesson 2

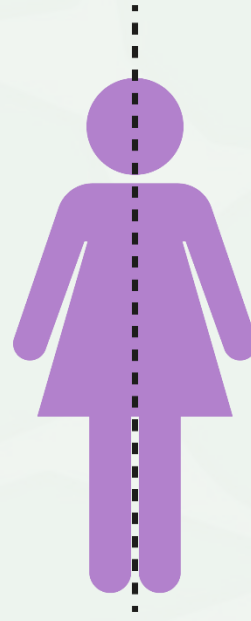
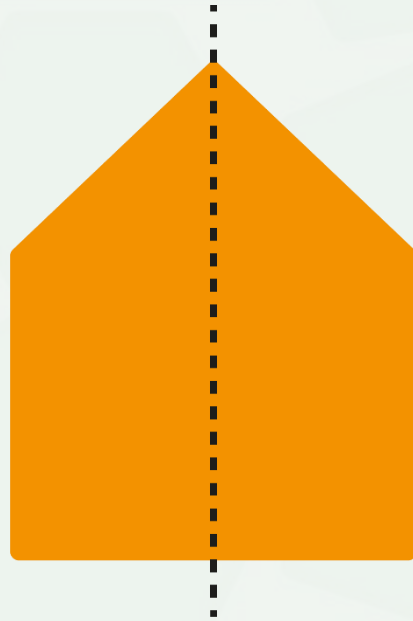
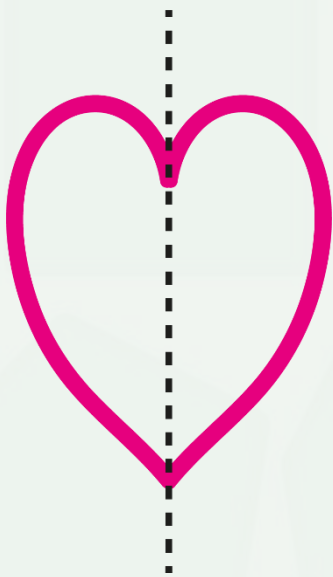
Recap

What is a line of symmetry?
What is a symmetrical shape?

Symmetry

Reflective Symmetry

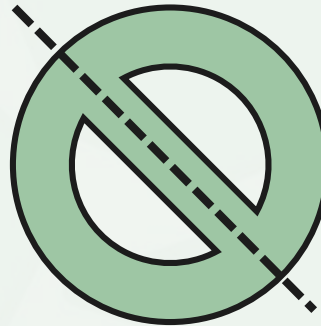
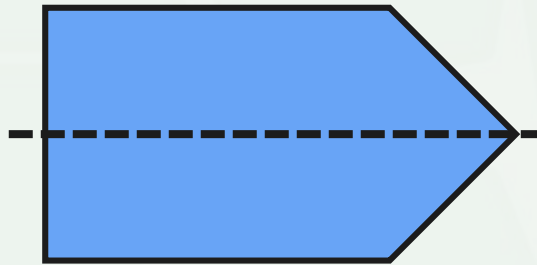
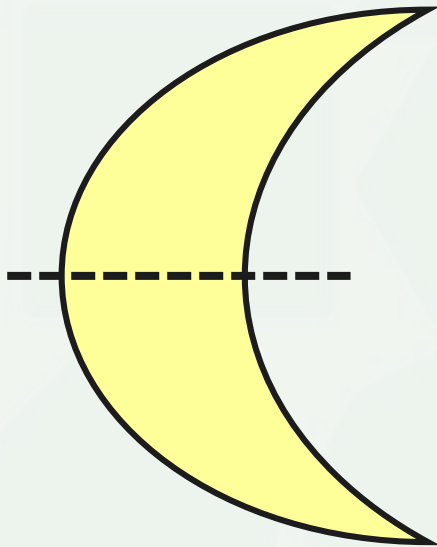
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Symmetry

Reflective Symmetry

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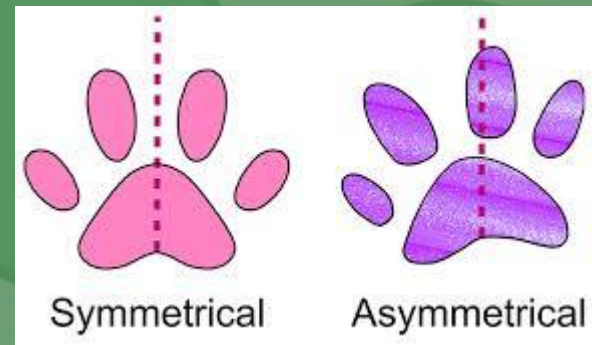
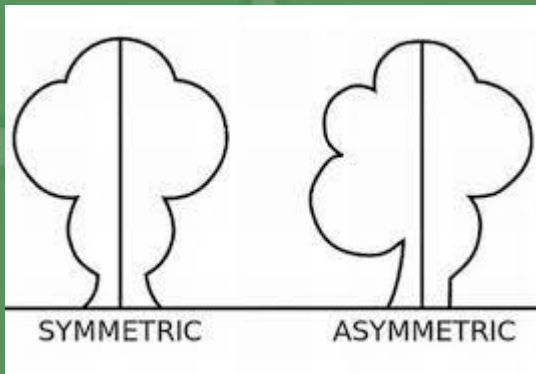
Lots of real life objects are
symmetrical.
Find some in your house!



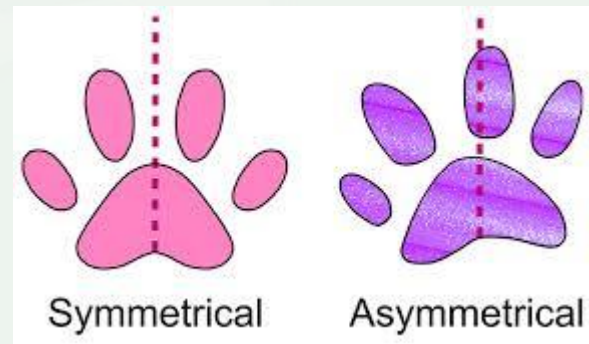
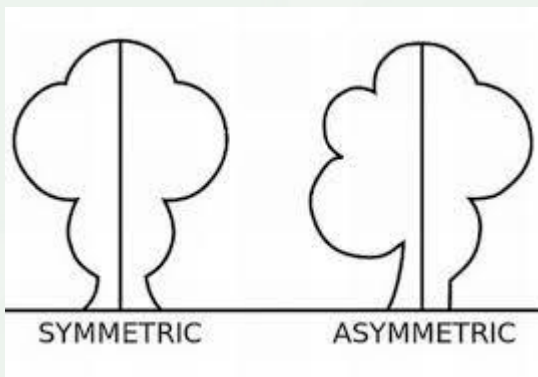
Aim



I can sort pictures into those that are symmetrical and those that are asymmetrical.



Asymmetrical shapes and objects have two sides that don't match.
They don't match up perfectly when folded in half.



Look at activity 3.

Find the shapes that are symmetrical and draw **one** line of symmetry down them. Sort the shapes onto the table under the headings symmetrical and asymmetrical.

Lesson 3

Aim

I can complete symmetrical patterns and pictures.

Look at activity 4

Finish the symmetrical patterns off by colouring in the squares.
Remember both sides have to be exactly the same.

Look at activity 5

Finish the symmetrical pictures off by drawing the other side.

Lesson 4

Aim

Can you apply your knowledge of symmetry to solving a problem?

Try Activity 6!

