

## 2 Day Emergency Plan Maths Day 2

### Learning focus

Learn to recognise vertical lines of symmetry on shapes and letters and how the mirror line can help you.

This lesson includes:

- a catch-up quiz
- one video
- one learning summary
- two interactive activities

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### Quiz

To get started, let's see how well you know this topic already. Take the catch-up quiz below to find out.

<https://www.bbc.co.uk/bitesize/articles/z8nw4xs>

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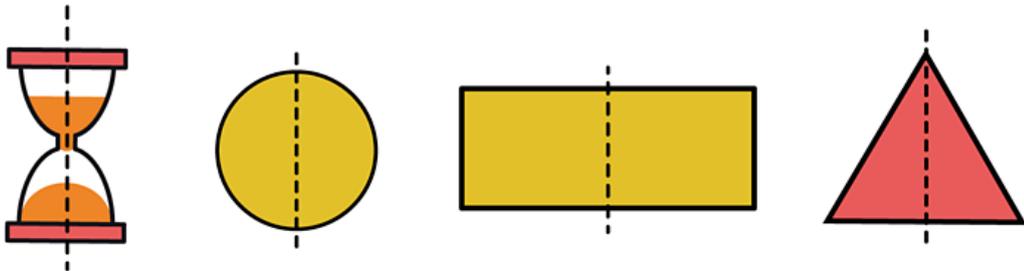
### Learn

Watch this Teacher Talk all about symmetry.

<https://www.bbc.co.uk/bitesize/articles/z8nw4xs>

Learn about vertical lines of symmetry.

Look at the shapes below. What do you notice about them? How are they the same?



They all have **vertical symmetry**. This means you can draw a **mirror line** down through the middle of each shape and divide it into two reflected halves.

Remember **vertical** means from top to bottom.

**Top tip**

It's called a mirror line because when a mirror is placed on this line, you will see the hidden half of the shape in the mirror.

If you cut each shape from paper or card, you could fold along the mirror line and the two halves would fit onto each other.



Watch the video from [BBC Teach](#) to see examples of a mirror line.

**Example 1:**

**Which of these letters have vertical symmetry?**

A E H P

A and H can be divided down the middle to make two reflected halves.

E and P cannot.

**Example 2:**

**Only one of these numbers has vertical symmetry. Which one?**

1 2 3 4 5 6 7 8 9

Only number 8 has vertical symmetry.

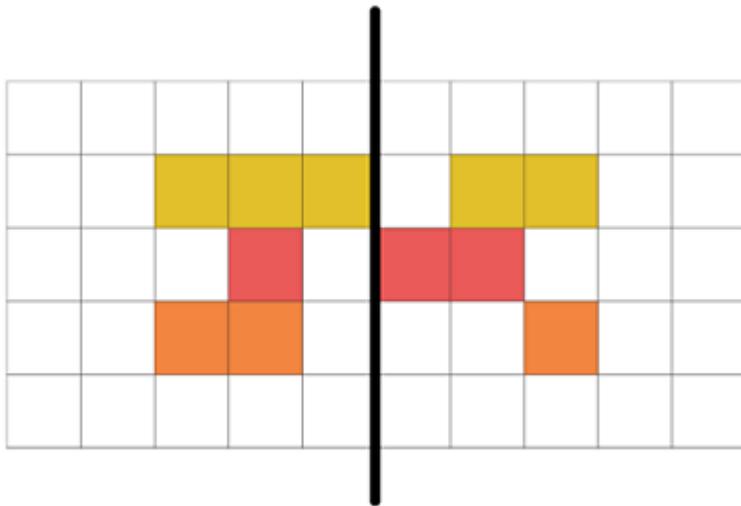
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**Practise**

**Activity 1**

This pattern is made of squares. The finished pattern has vertical symmetry.

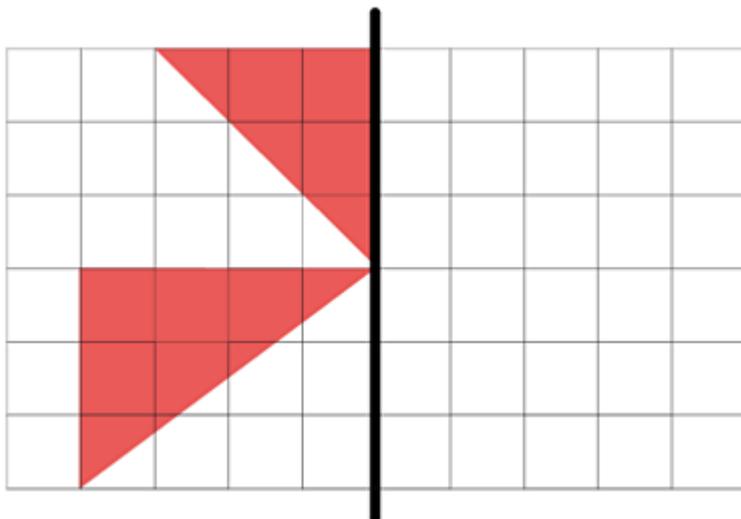
Some of the squares are filled in, can you see how to complete the pattern by colouring in 3 more squares?



**Activity 2**

Here is part of a design that has vertical symmetry.

Can you see how to complete the design on the right side of the mirror line?



**Now draw a variety of shapes and show their lines of symmetry.**

Answers on the next page!

**Answers**

The finished patterns should look like this.

