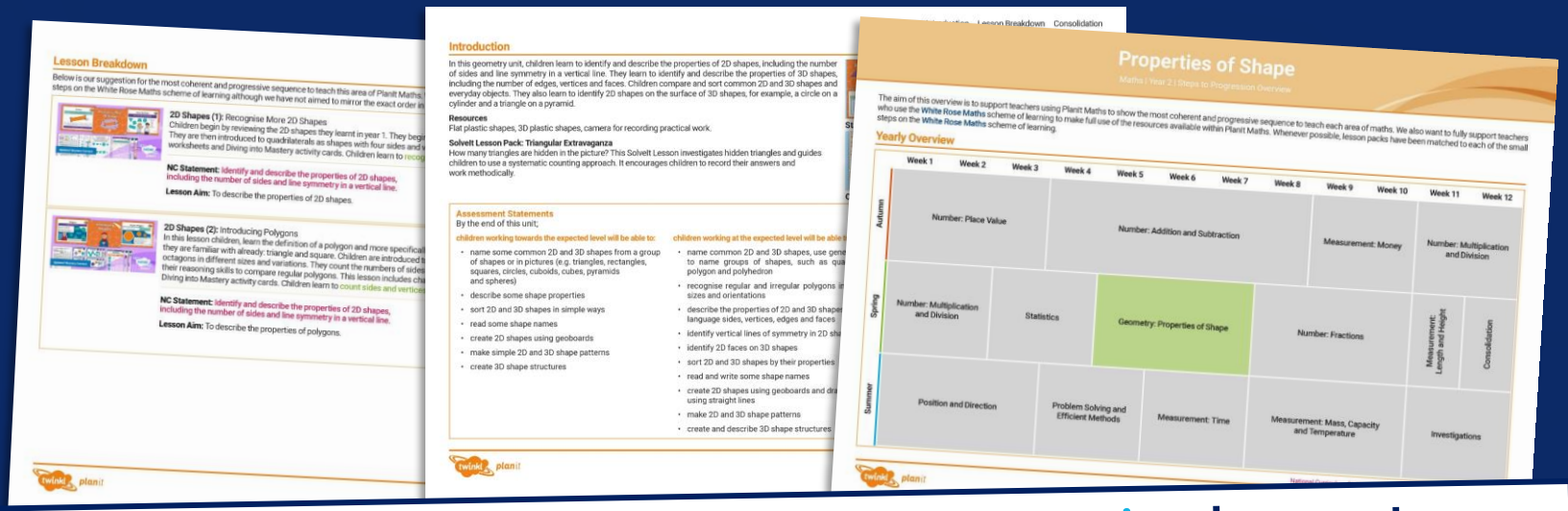
Maths

Properties of Shapes

Need a coherently planned sequence of lessons to complement this resource?



See our Properties of Shapes Steps to Progression document.

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.

twinkl planit

twinkl.com

Vertical Line Symmetry in 2D Shapes

twinkl

twinkl
Quality Standard Approved

Aim

- To recognise vertical line symmetry in 2D shapes.

Success Criteria

- I can recognise and describe common 2D shapes.
- I can fold 2D shapes to explore symmetry.
- I can use a mirror to explore symmetry.

twinkl.com

Remember It

These are 2D shapes. Part of the shapes are hidden.
What could they be? What couldn't they be?

It is a square.

It is a circle.

It is an irregular polygon; a heptagon.

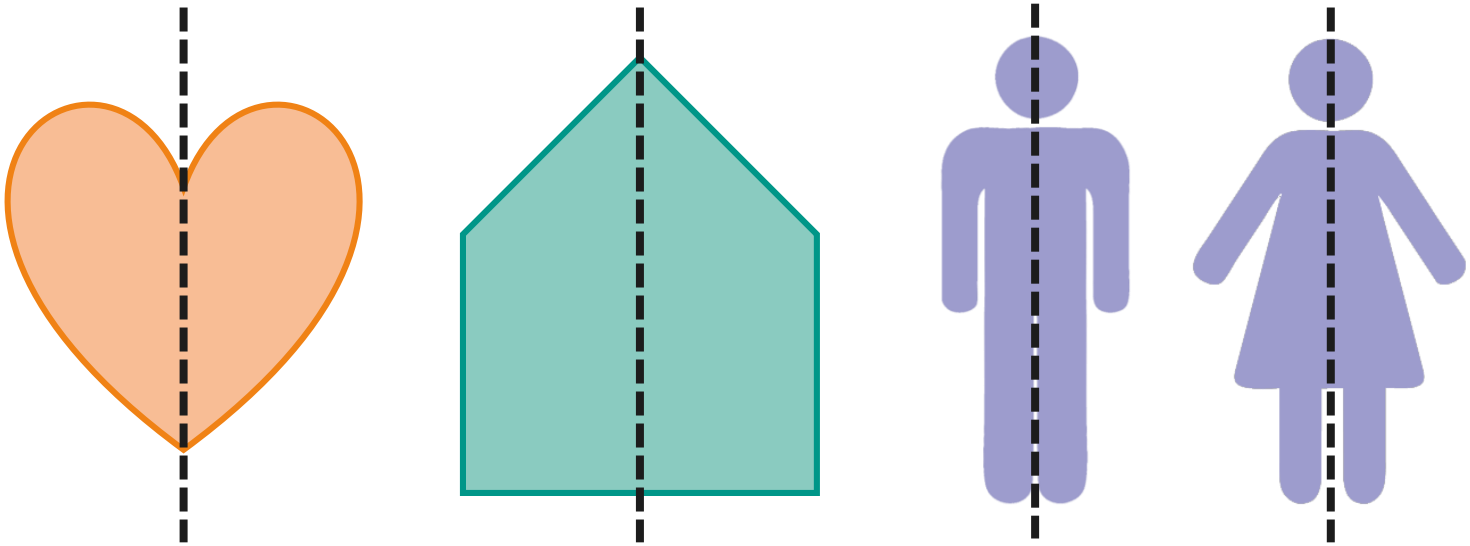
Are some shapes easier to identify than others? **Explain why**.

twinkl.com

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.



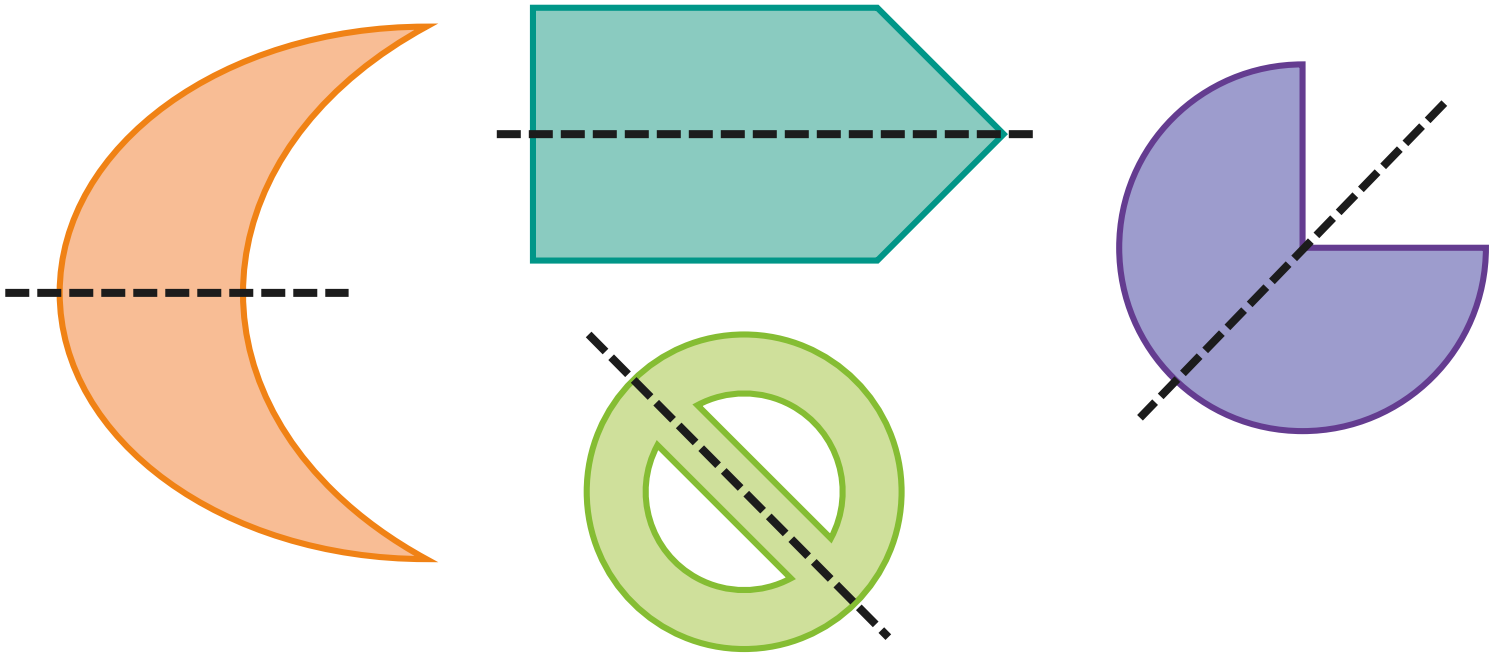
These are vertical lines of symmetry.

twinkl.com

Symmetry

Reflective Symmetry

Reflection symmetry can be in different orientations.

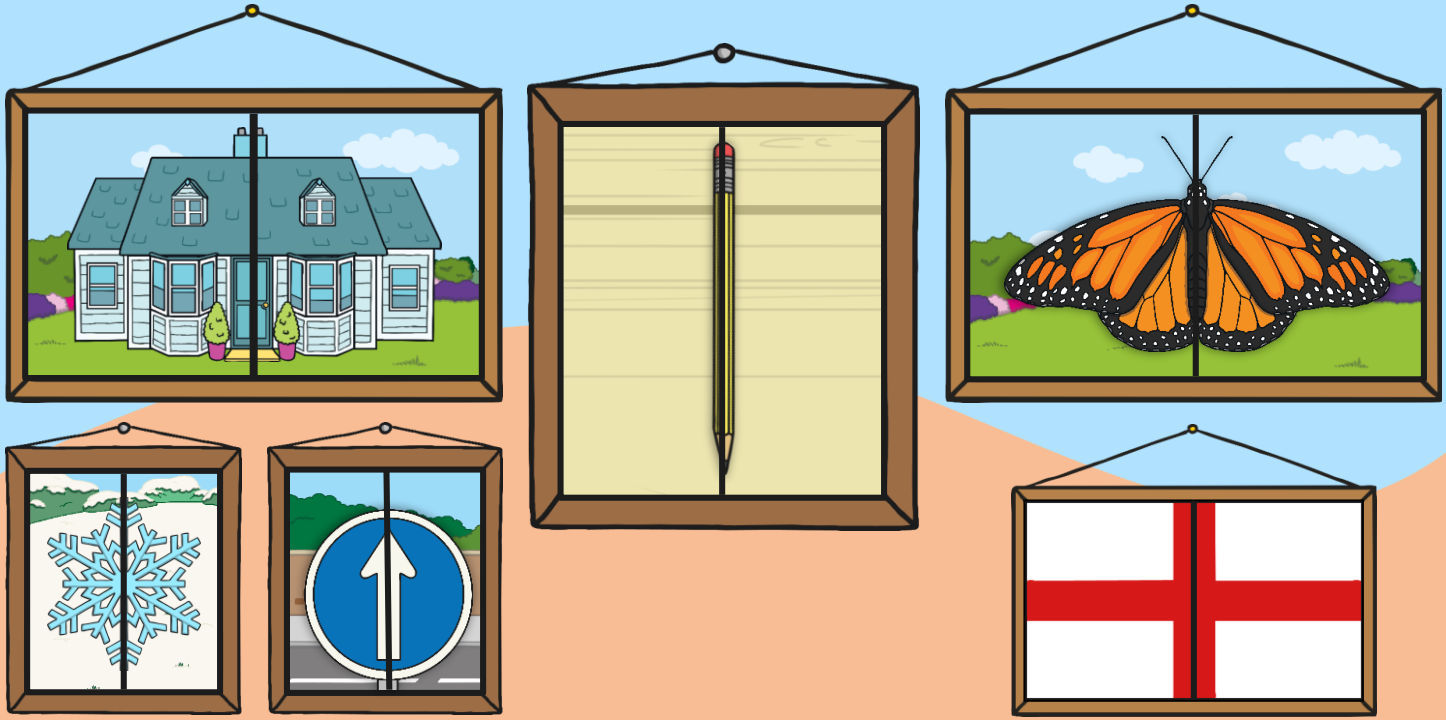


twinkl.com

Symmetry

Whole Class

Lots of real-life objects are symmetrical.



These real-life objects have vertical lines of symmetry.

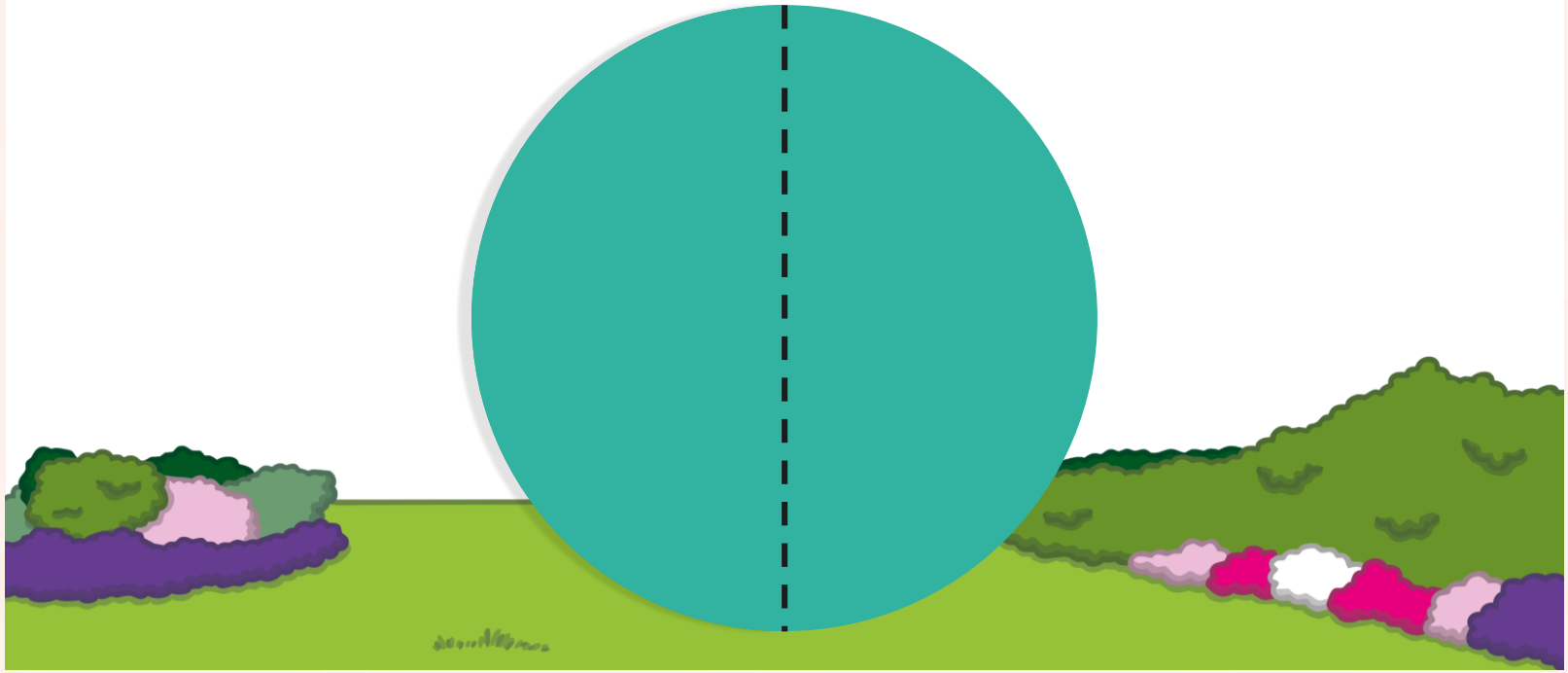
twinkl.com

Symmetry

Whole Class

To find a line of symmetry you could cut a shape out and fold it in half.

If one half fits exactly on top of the other half,
then you have found a line of symmetry.



twinkl.com

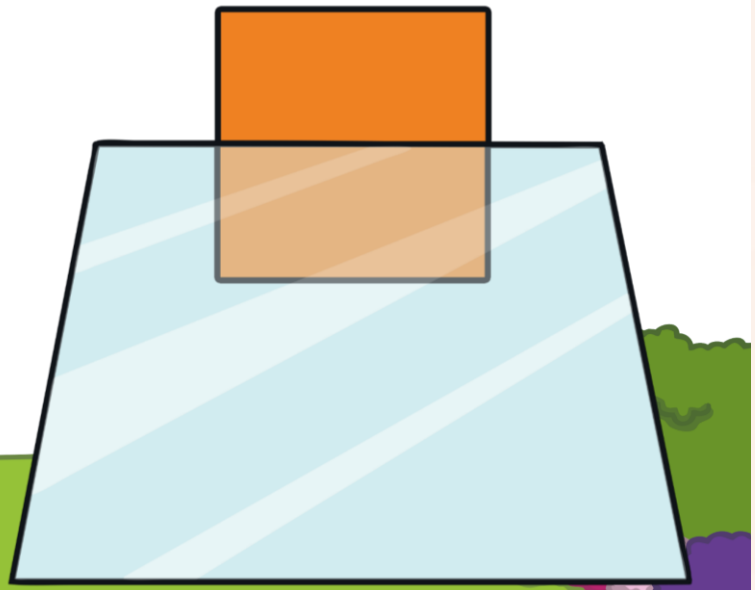
Symmetry

You can also find a line of symmetry using a mirror.

Look carefully at the shape and think about where you think the vertical line of symmetry is.

Place the mirror along the line of symmetry and look into the mirror.

If the shape looks the same in the mirror as it does when you take the mirror away, then you have found the line of symmetry.

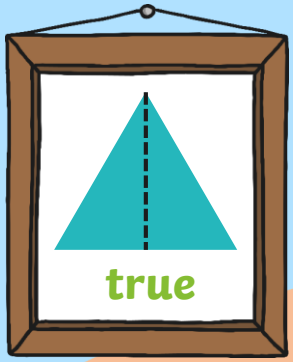


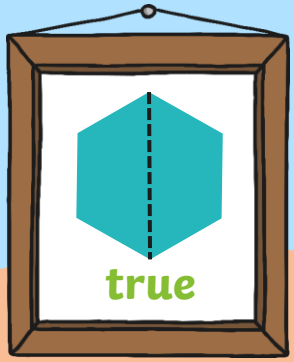
The line of symmetry is sometimes called the mirror line.

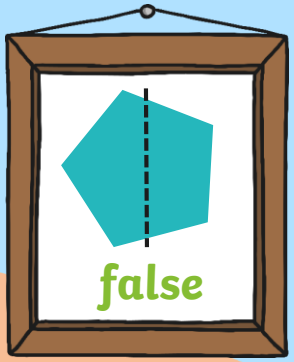
twinkl.com

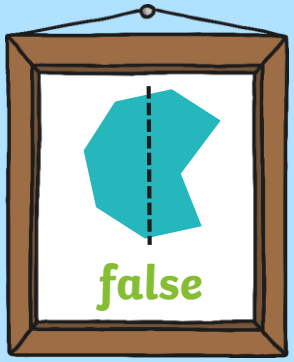
Symmetry Check

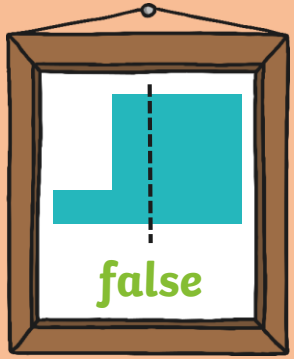
These shapes have got vertical lines of symmetry. **True or false?**
How do you know?

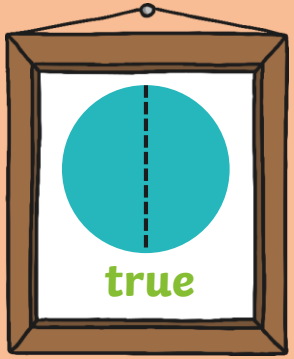






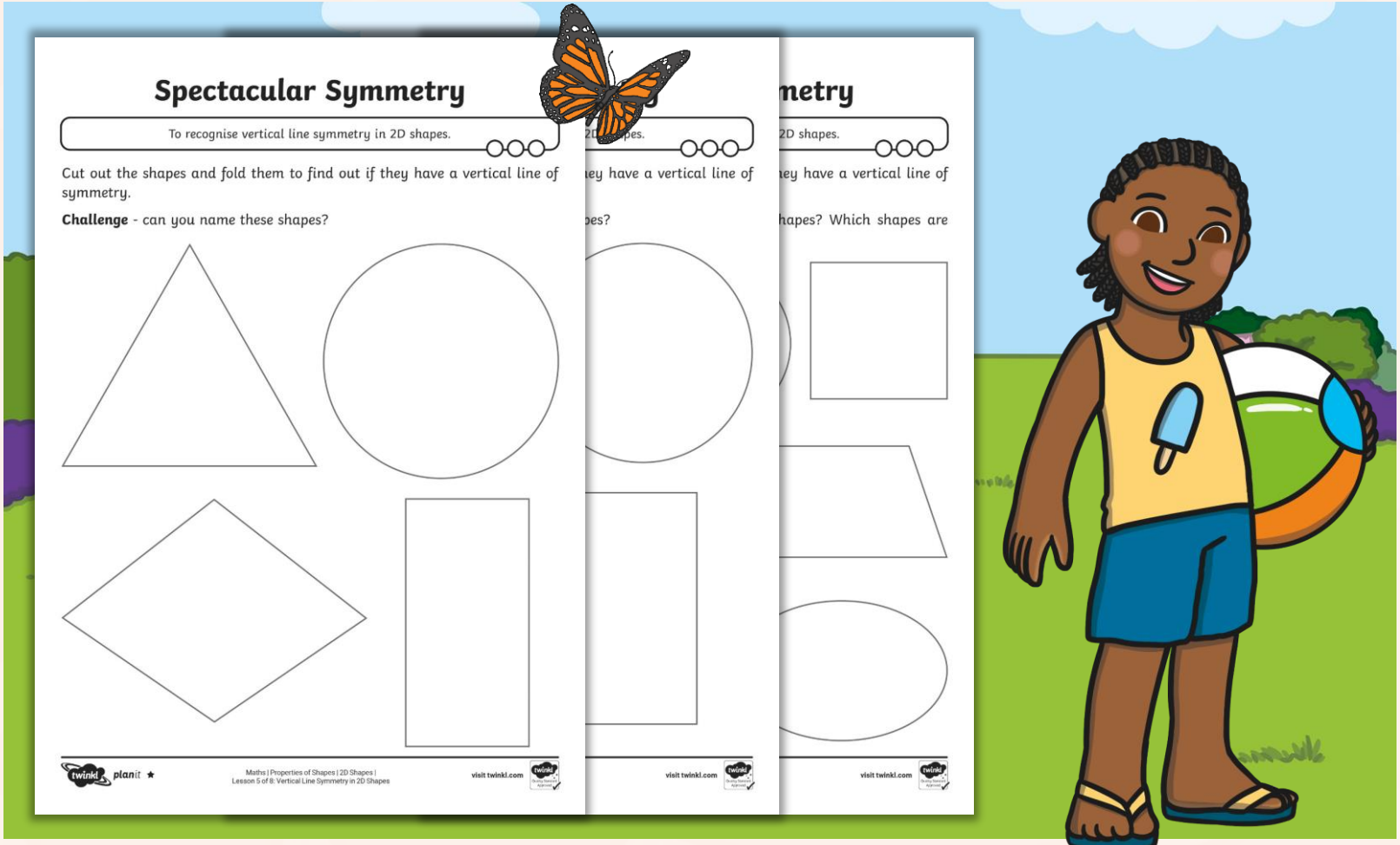






twinkl.com

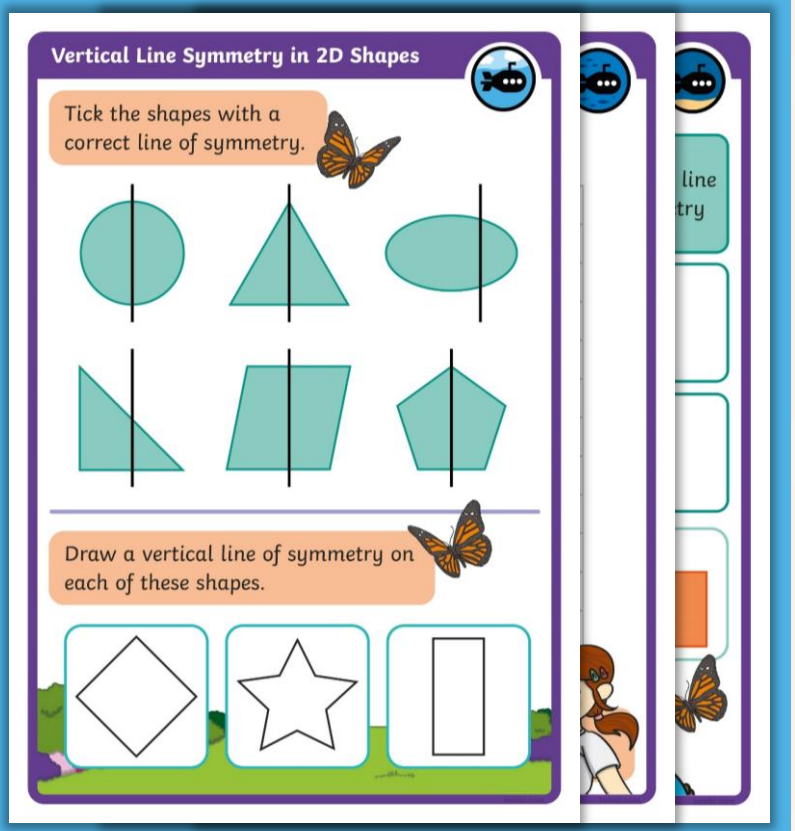
Spectacular Symmetry



twinkl.com

Diving into Mastery

Dive in by completing your own activity!



twinkl.com

Aim

- To recognise vertical line symmetry in 2D shapes.

Success Criteria

- I can recognise and describe common 2D shapes.
- I can fold 2D shapes to explore symmetry.
- I can use a mirror to explore symmetry.

twinkl.com