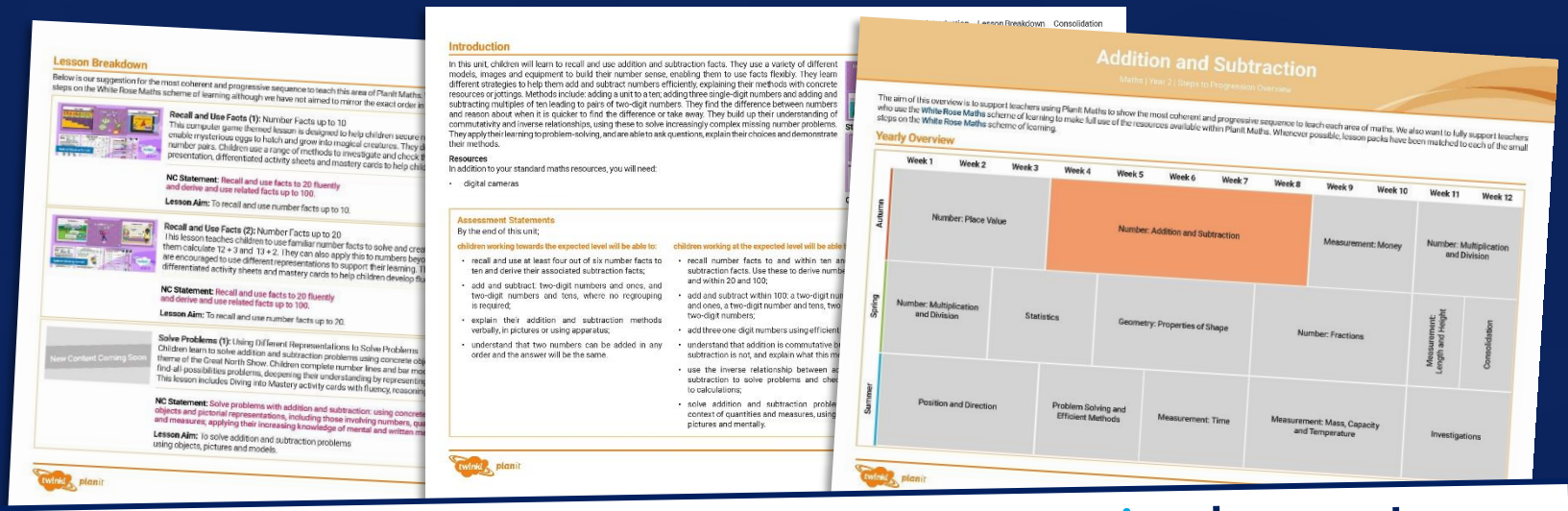
Maths

Properties of Shapes

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



See our Properties of Shapes Steps to Progression document.

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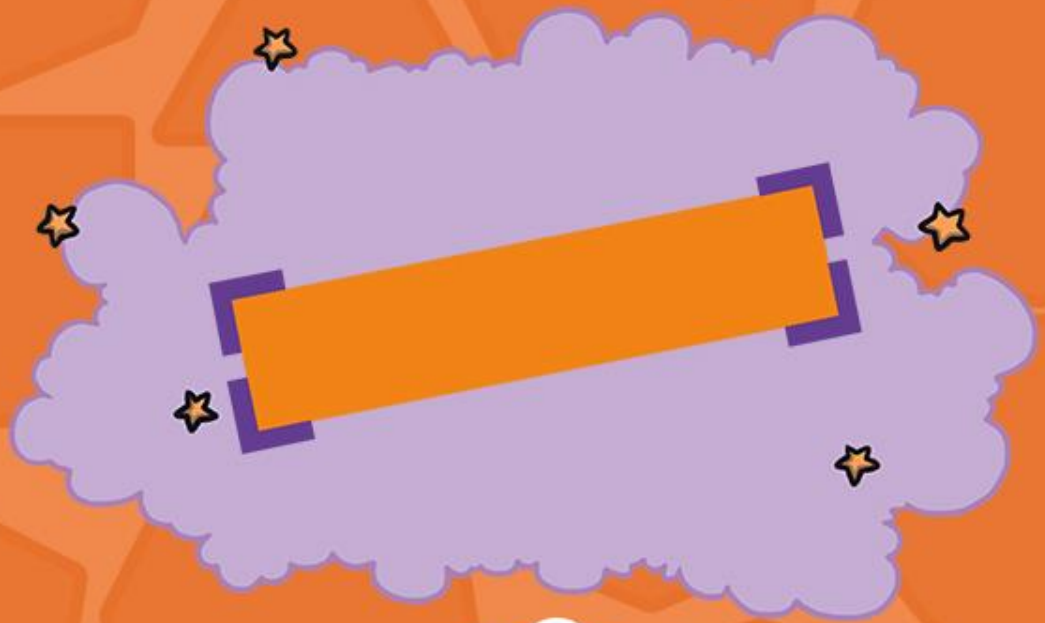
Recognise More 2D Shapes



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Quality Standard
Approved

Aim

- To describe the properties of 2D shapes.

Success Criteria

- I can name common 2D shapes.
- I can describe the properties of 2D shapes using the words 'sides' and 'vertices'.
- I can recognise quadrilaterals by counting their sides and vertices.

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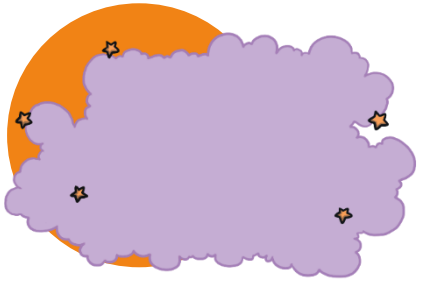
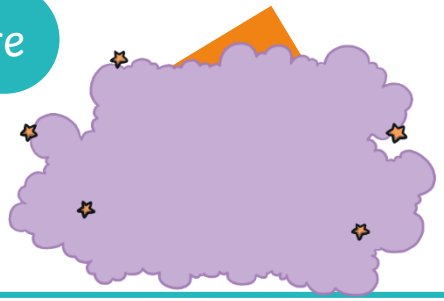
Remember It

Can you identify the 2D shapes from the parts you can see?
Click the shape to reveal the answer.

circle

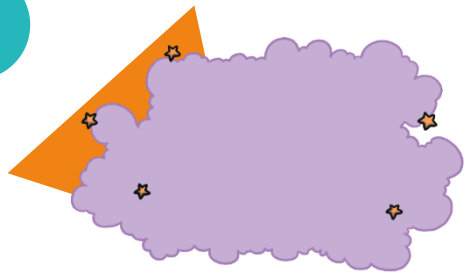


square



rectangle

triangle



Can you name these shapes and describe their properties?

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Vertices

Before, we used the word **corner** to name the point where 2 sides meet.
How many corners does this 2D shape have?

Now, we learn the mathematical term for a corner. One corner is called a **vertex**. If we have more than one, we use the word **vertices**.

This rectangle has **4 vertices**.

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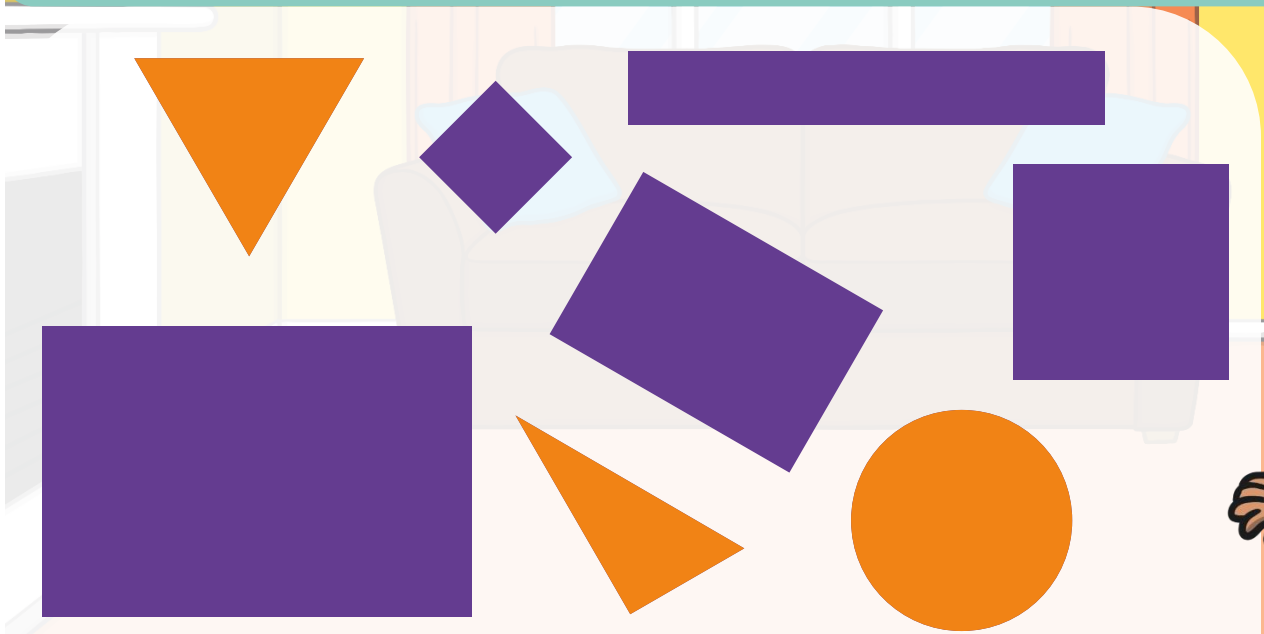
Vertices

Whole Class

These shapes all have 4 vertices. **True or false?**
Explain how you know.



False. A circle has no vertices. A triangle has 3 vertices.

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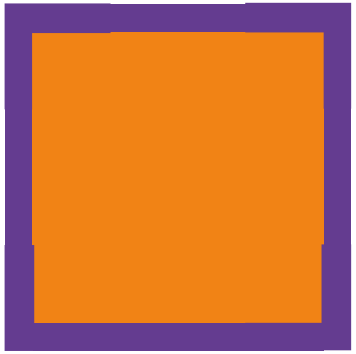
Quadrilaterals

Quadrilaterals are shapes with **4 sides** and **4 vertices**. The 4 sides are always straight. Do you know any quadrilaterals already?

A rectangle is a quadrilateral.



A square is a quadrilateral.

Let's check they each have 4 vertices.

Let's check they each have 4 sides.

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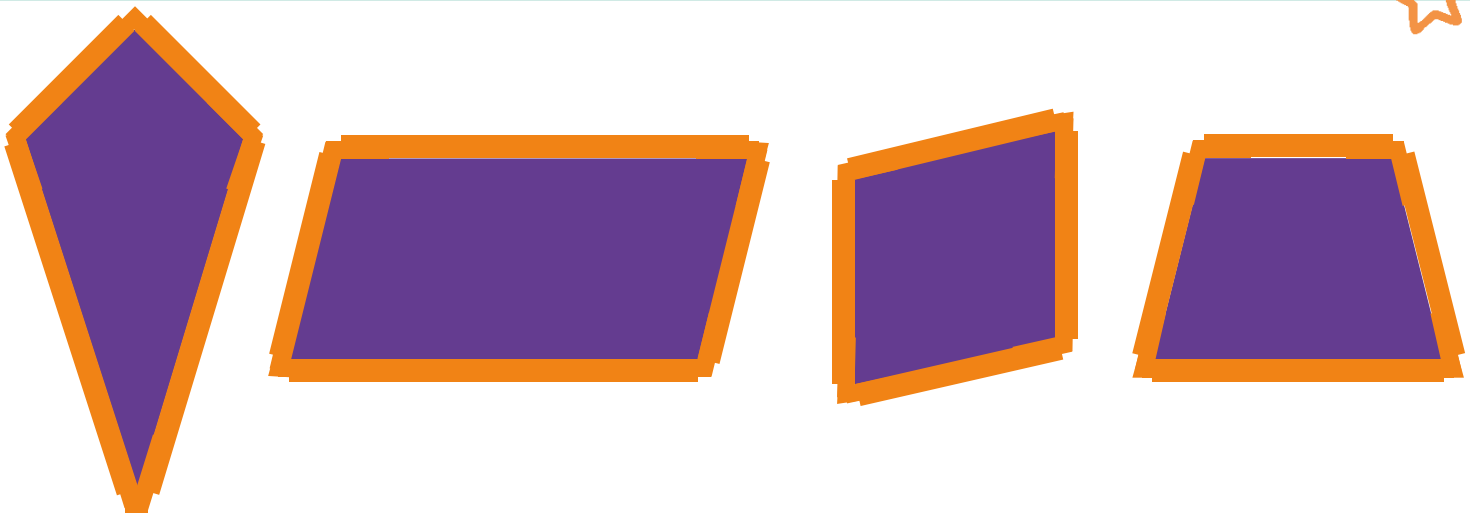
Quadrilaterals

Quadrilaterals are shapes with **4 sides** and **4 vertices**.
Are these shapes **quadrilaterals**?



They are quadrilaterals because they have 4 sides and 4 vertices.

Explain how you know.

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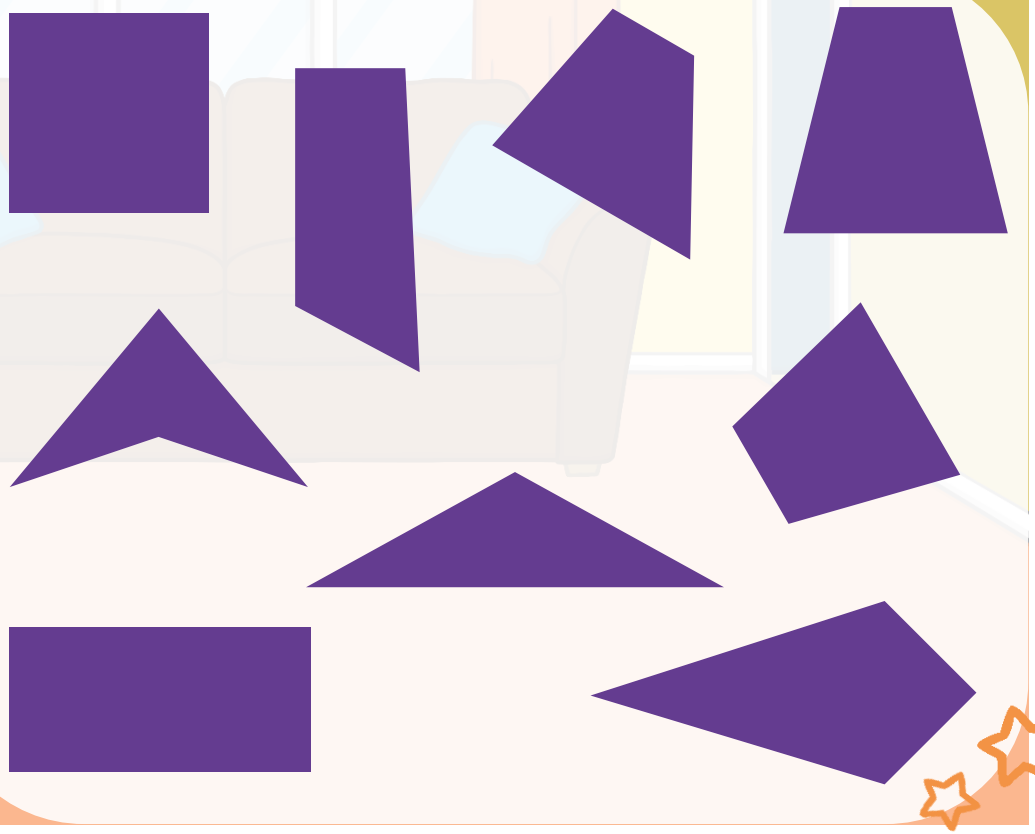
Quadrilaterals

Whole Class

Here are some 2D shapes. Which is the odd one out? Why?

The triangle is the odd one out because it has 3 sides and 3 vertices. Therefore, it is not a quadrilateral.



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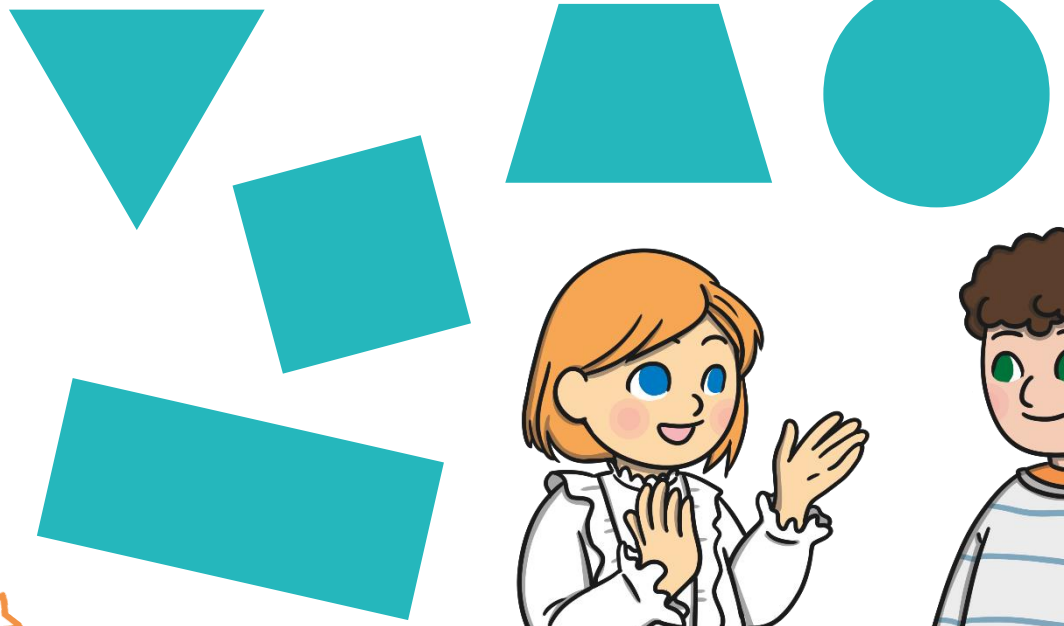
Guess My Shape

Choose a shape and describe it to your partner.
Can they guess which one you have described?



Words to use:

vertices
sides
curved
straight
long
short
quadrilateral

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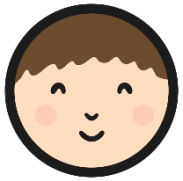
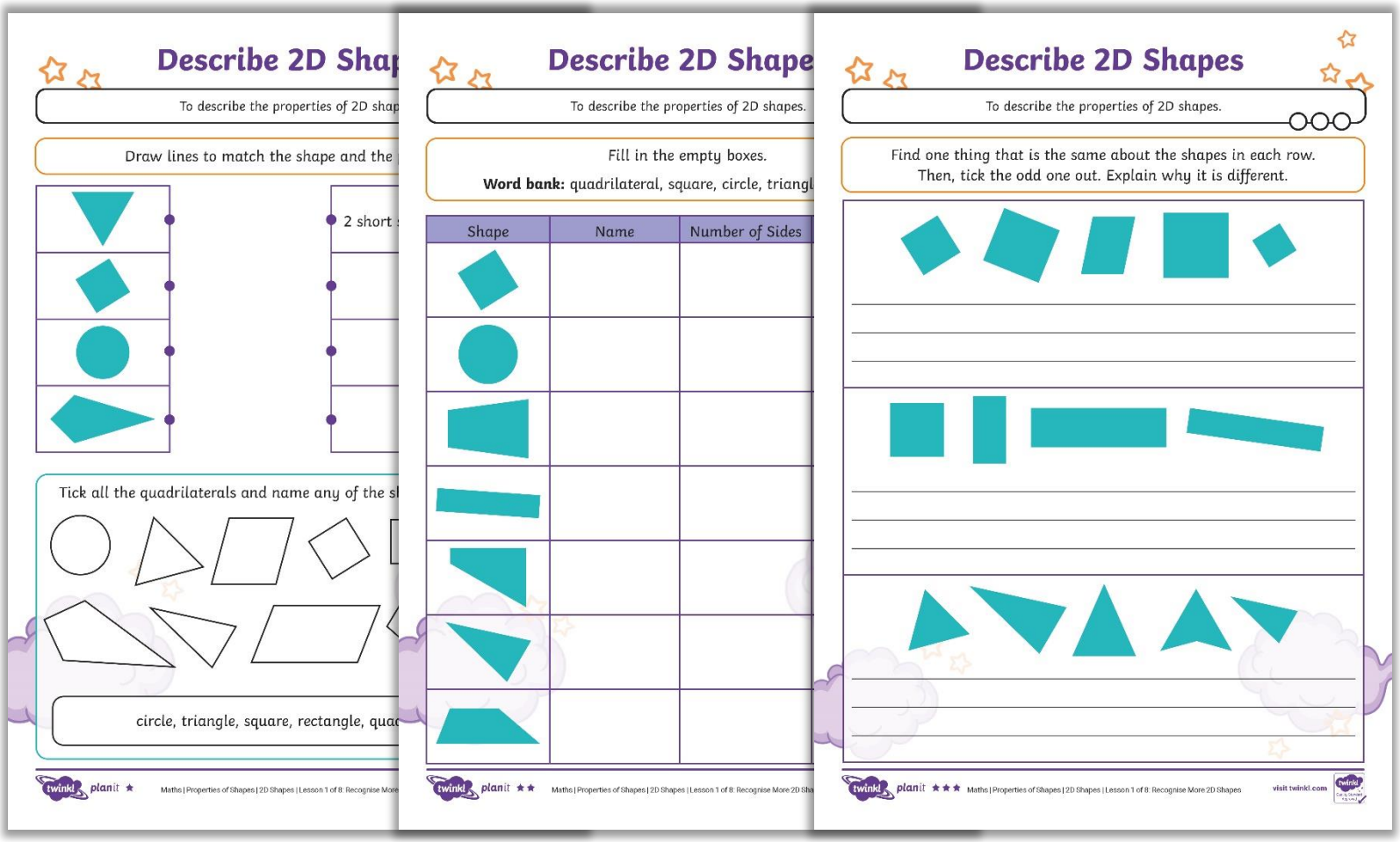
Describe 2D Shapes





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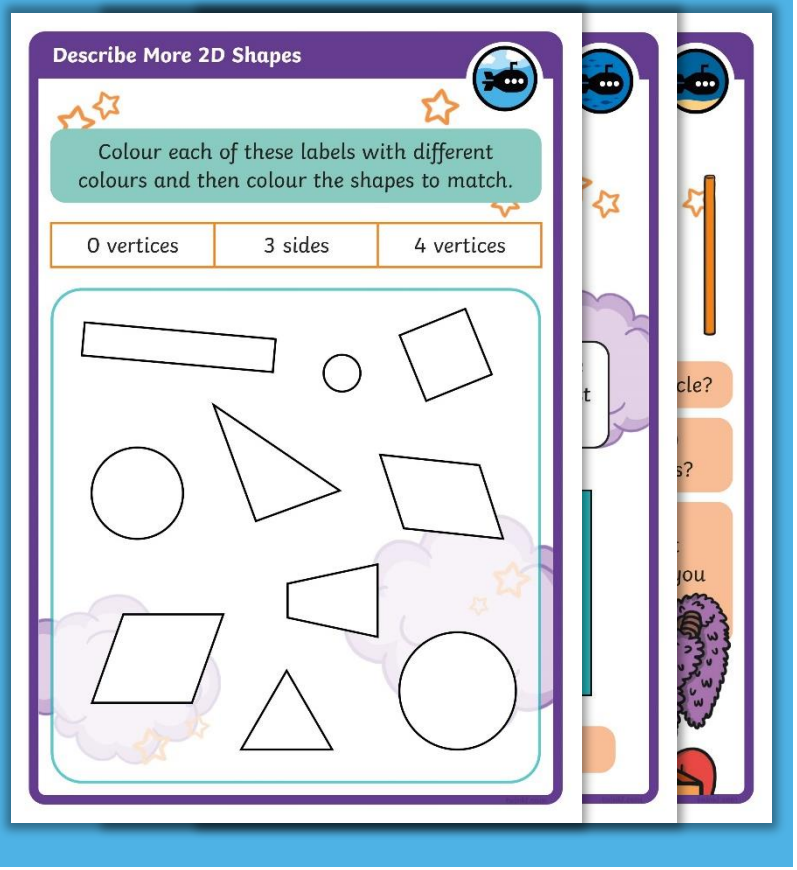
Diving into Mastery

Dive in by completing your own activity!



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