planit

## Maths

## Properties of Shape

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



See our Properties of Shapes Steps to Progression document.

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

## M@Be 2D

Shope Poutterns


## Aim

- To introduce 2D shape patterns.


## Success Criteria

- I can identify the core of 2D shape patterns.
- I can continue 2 D shape patterns.
- I can complete 2D shape patterns.
- I can create 2D shape patterns.

How have these 2D shapes been sorted?


How would you sort these shapes into 2 groups?


What can you tell me about each group?


## What are patterns?

Can you see the patterns on these classroom objects?


What can you tell me about them?
Can you see any patterns in your classroom?

## What can you tell me about this pattern?




What's the same about the shapes in this pattern?
The shapes are all circles.


What's different?
The circles are different sizes.

What's the same about the shapes in this pattern?
The shapes are all triangles.


What's different?
The triangles are facing different directions.

Say the name of each shape as it appears.


What would the next shape be?
Saying the pattern can help you work out what comes next.


Say the name of each shape as it appears.


What would the next 2 shapes be?

## Whtiöthstropprei iss Ihaffonæettreerraitungybe?



Whiouthsthapmeisisafferrttheereratanghlee?

Take turns with a talk partner to give clues about a shape.
Use these words to help you.


The part of a pattern that repeats is called the core.


What can you tell me about the core of this pattern?

Can you find the core of this pattern?


What can you tell me about the core of this pattern?

Can you continue this pattern?


What strategies could help?

Say the pattern.


Find the core.

Which strategy worked for you?

Can you continue this pattern?


Which strategy will you use?

## Which shape is missing from the pattern?



What can you do to find out?

Say the pattern.

Find the core.

## Where do these shapes belong in the pattern?



How did you know where to place each shape?

Use these shapes to make a pattern on your whiteboard.


Compare your patterns.
What's the same about them?
What's different?


## Diving into Mastery

Dive in by completing your own activity!


Are these patterns correct?


Can you spot the mistakes?
What would you do to correct them?

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