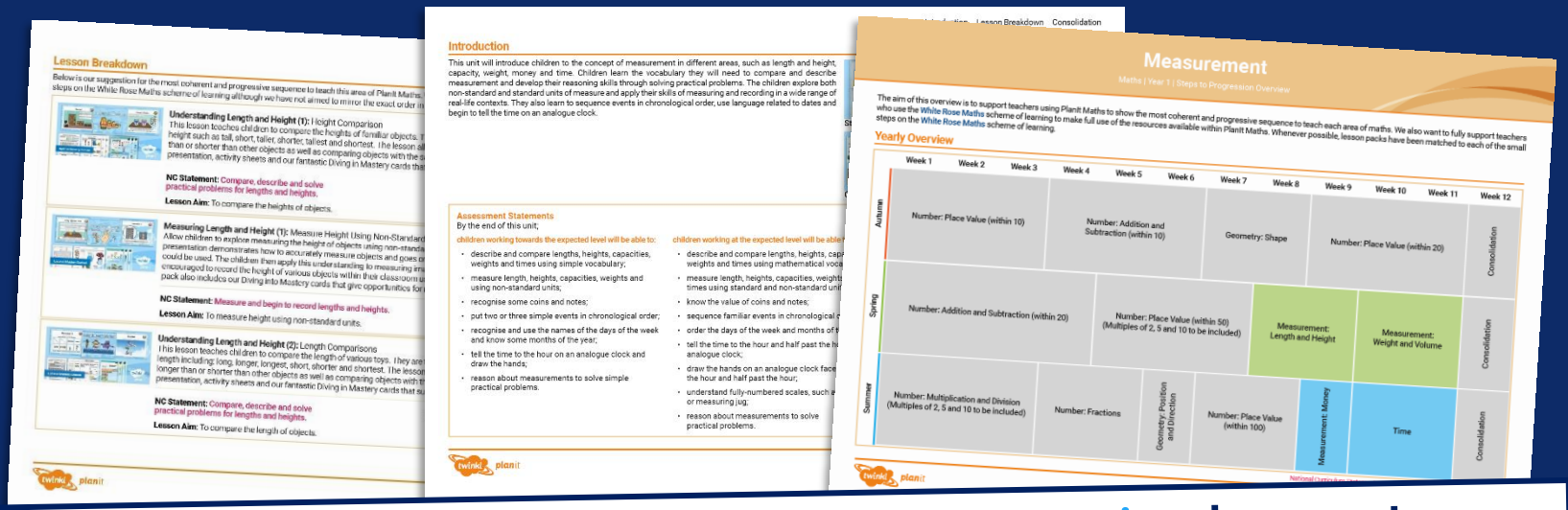
Maths

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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Make 3D Shape Patterns

Aim

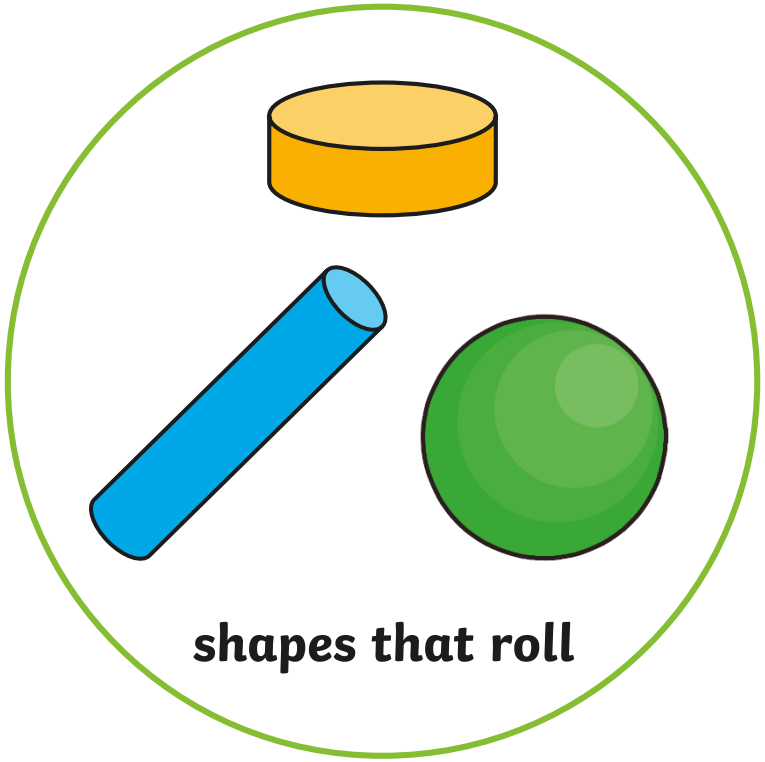
- To introduce 3D shape patterns.

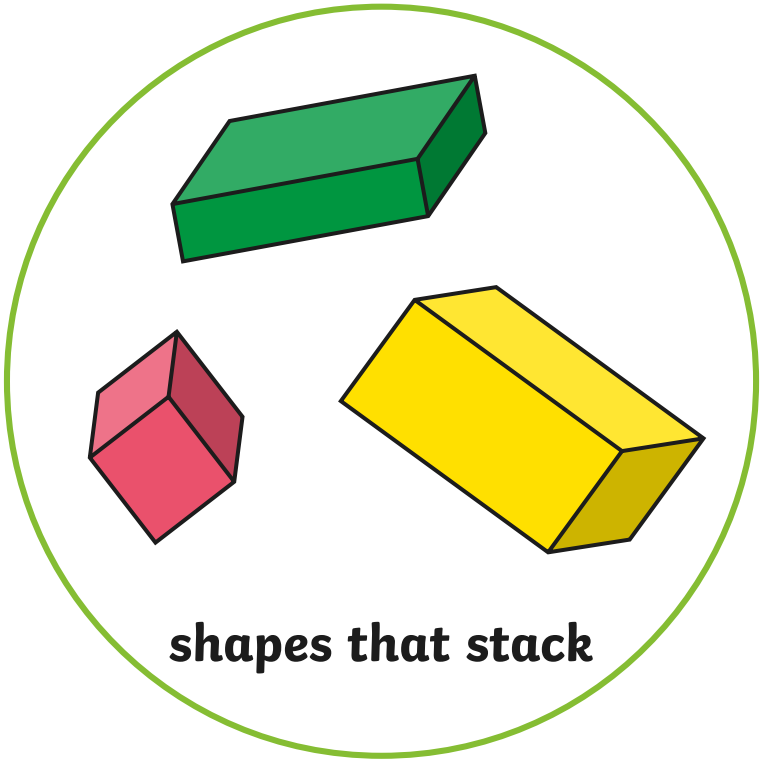
Success Criteria

- I can identify the core of 3D shape patterns.
- I can continue 3D shape patterns.
- I can complete 3D shape patterns.
- I can create 3D shape patterns.

Remember It

How have these shapes been sorted?

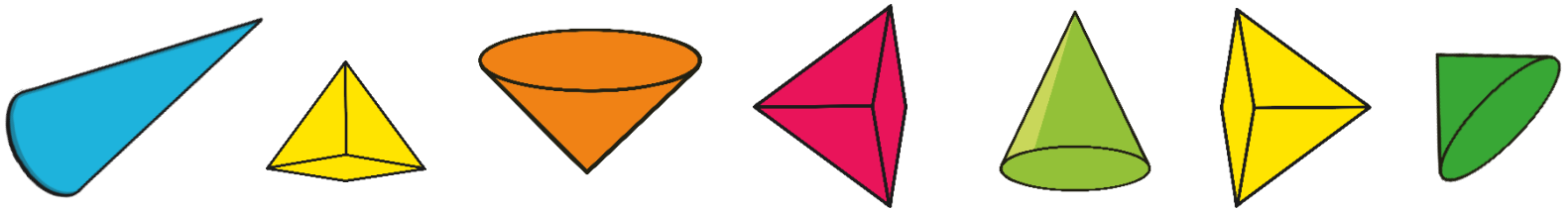




Can you see anything in the classroom that you could add to each group?

Remember It

Can you sort these shapes into 2 groups?



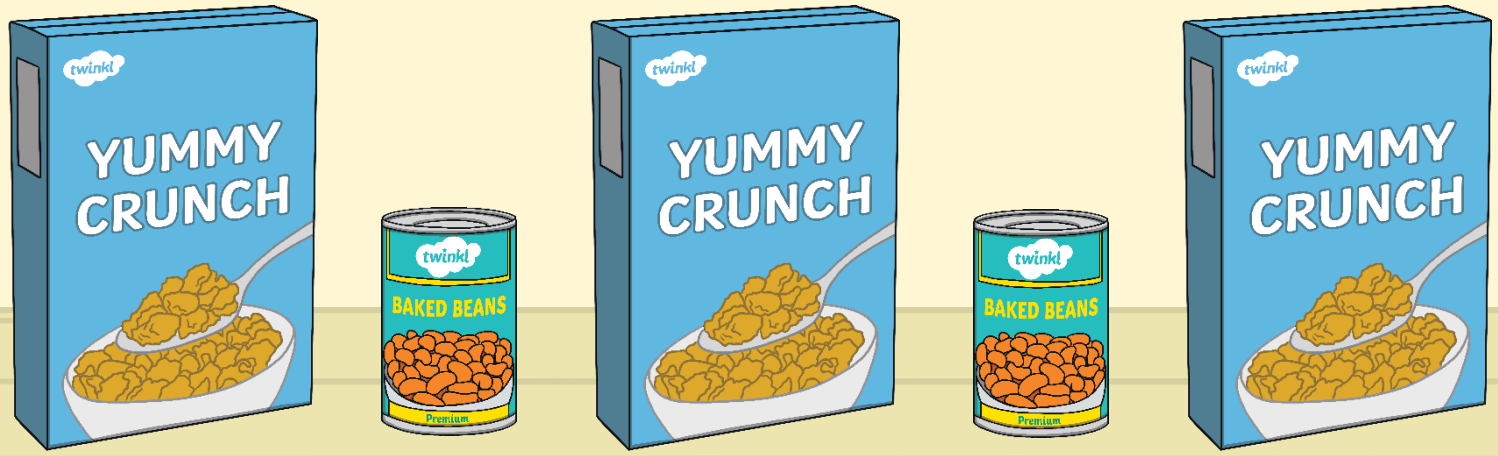
What can you tell me about each group?

cones

pyramids

Describe Patterns

Can you see the pattern made by these objects?



What can you tell me about them?

Describe Patterns

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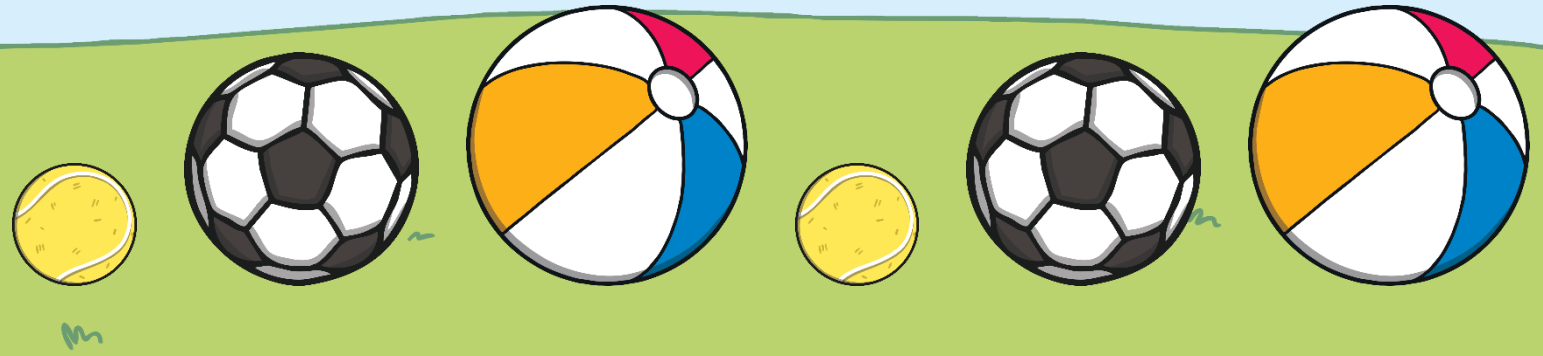
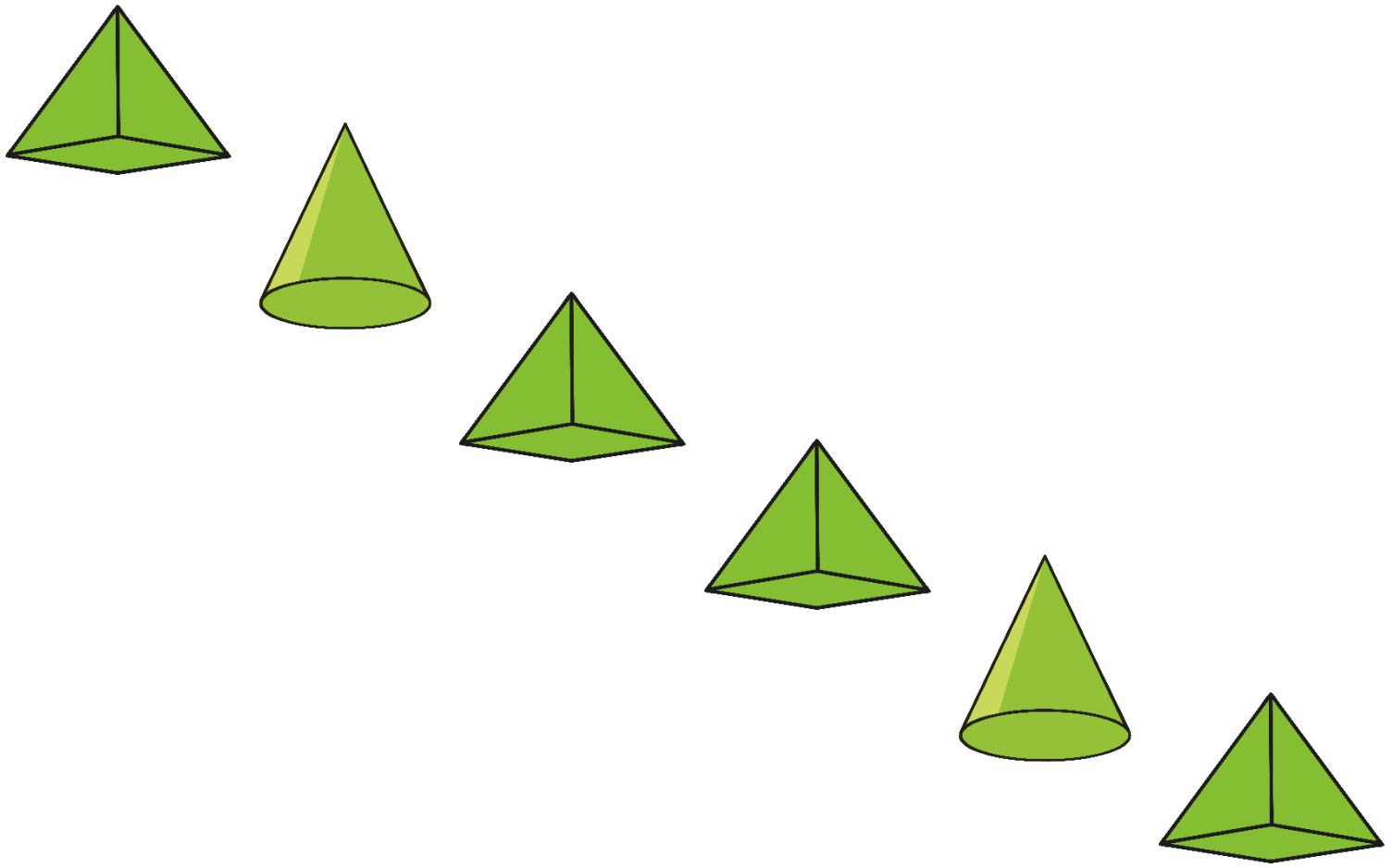


What can you tell me about them?

Describe Patterns

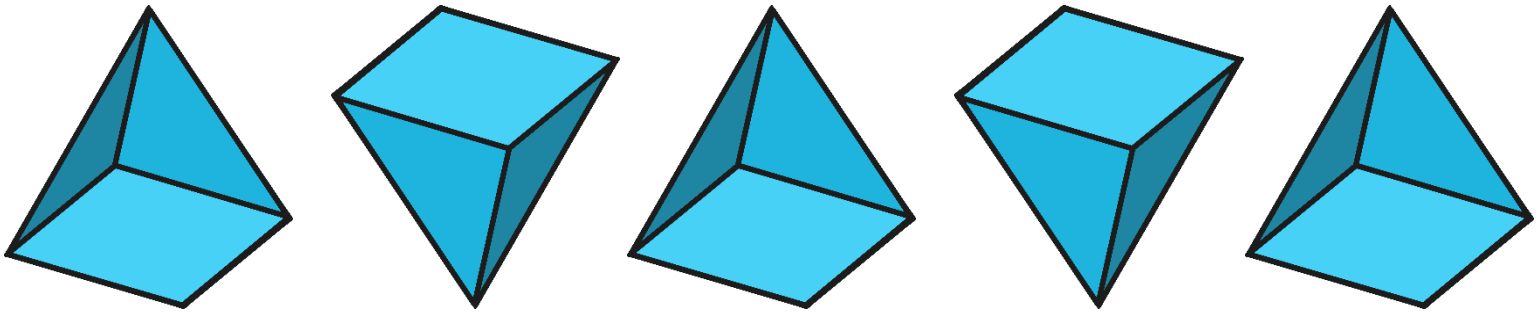
What can you tell me about this pattern?



Describe Patterns

What's the same about the shapes in this pattern?

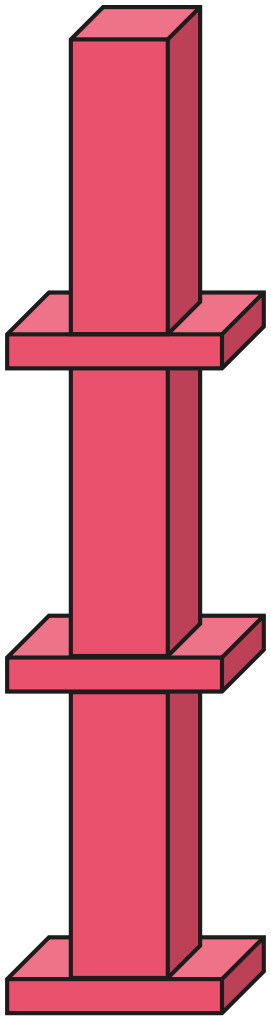
The shapes are all pyramids.



What's different?

The pyramids are facing different directions.

Describe Patterns



What's the same about the shapes in this pattern?

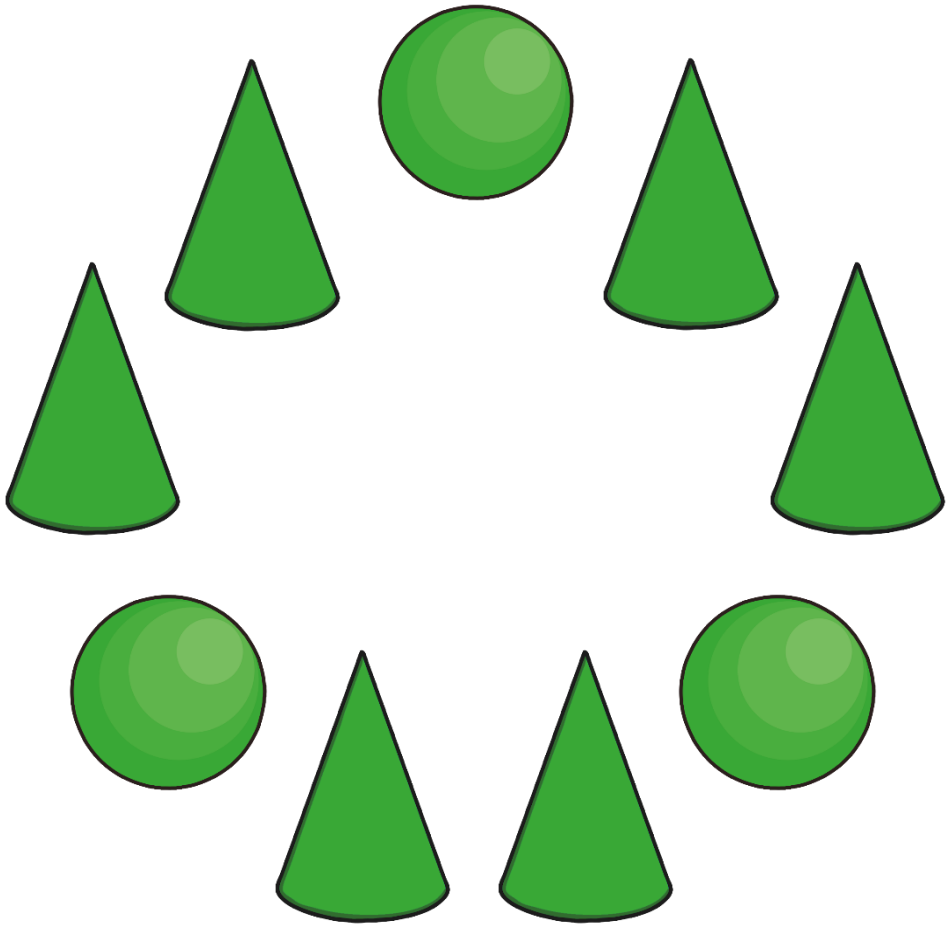
The shapes are all cuboids.

What's different?

The cuboids are different sizes.

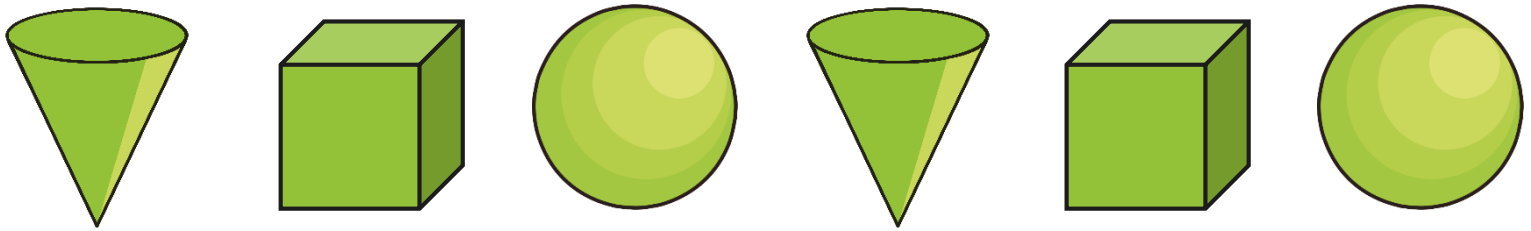
Describe Patterns

What do you notice about this pattern?



Say Patterns

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 Patterns

Say the name of each shape as the model is built.

cylinder

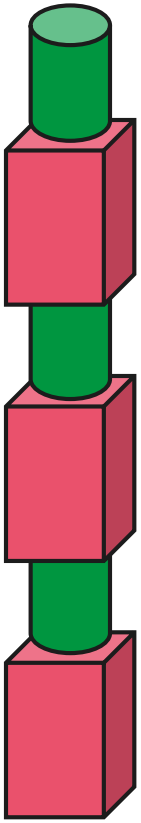
cuboid

cylinder

cuboid

cylinder

cuboid

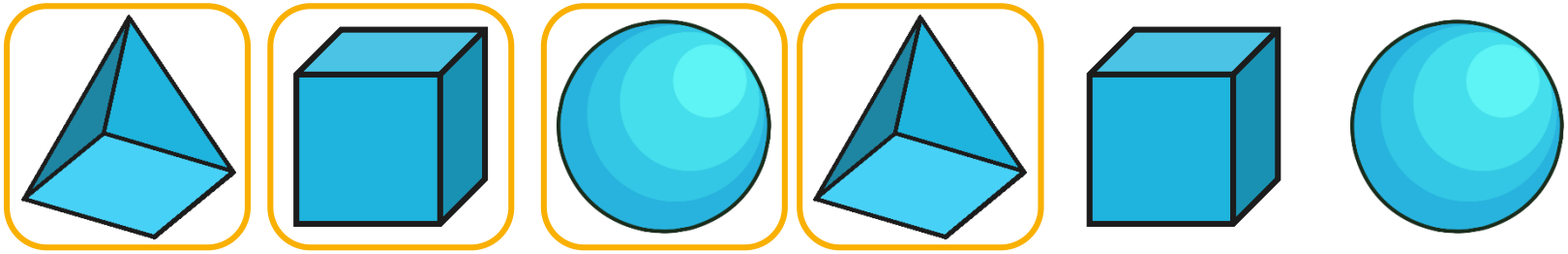


What would the next 2 shapes be?

Find the Shape

Which shape is **before** the cube?

a pyramid



Which shape is **after** the cube?

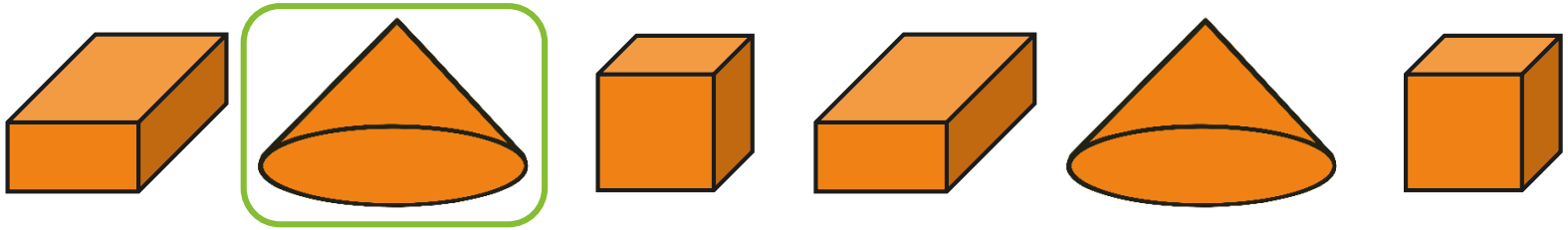
a sphere

Find the Shape

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

before

after



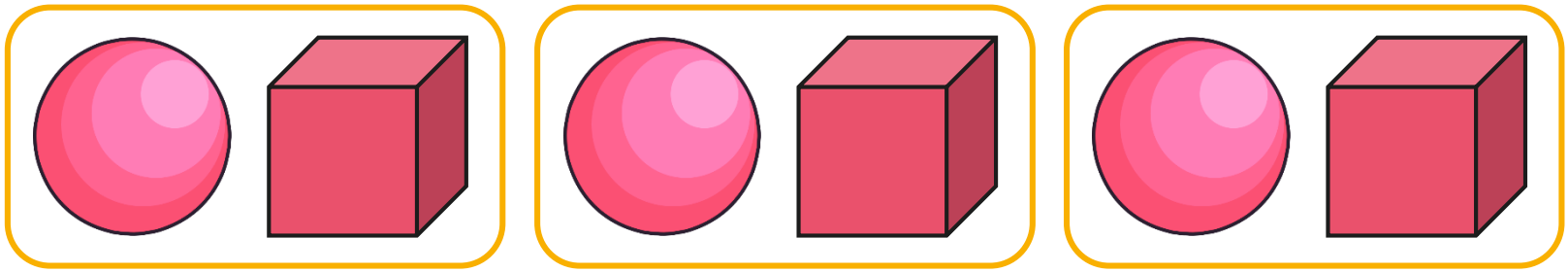
Which shape is **before the cube**?

A cone.

Find the Core

What do we call the repeating part of a pattern?

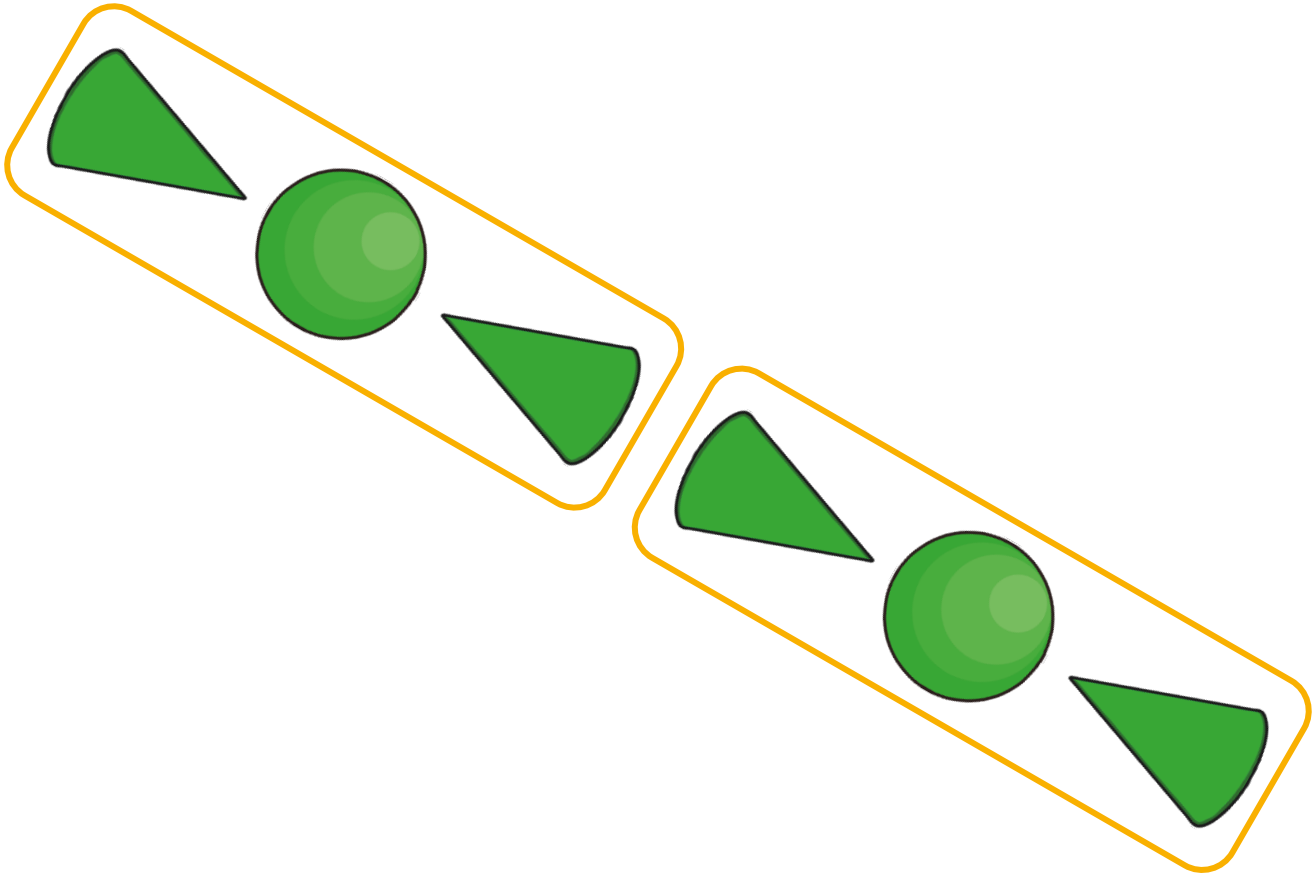
The core.



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

Find the Core

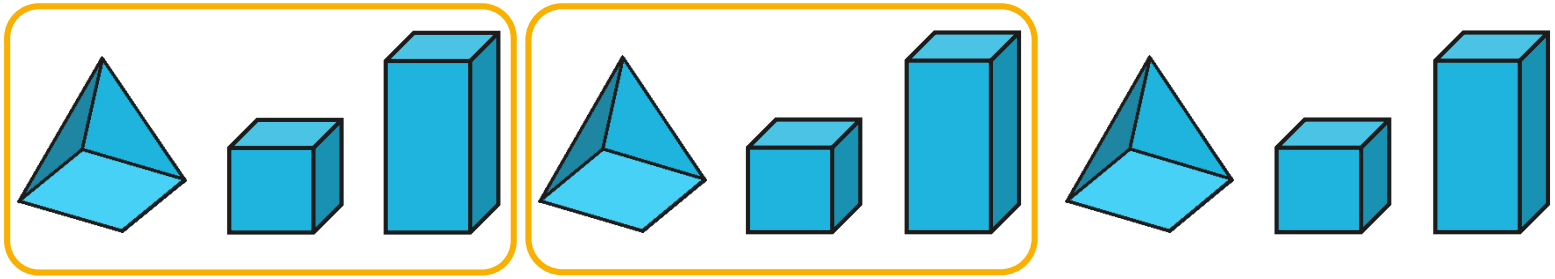
Can you find the core of this pattern?



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

Continue the Pattern

Can you continue this pattern?



What strategies could help?

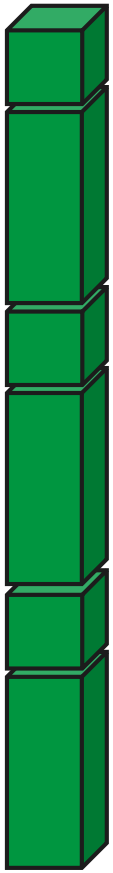
- Say the pattern.
- Find the core.

Which strategy worked for you?

Continue the Pattern

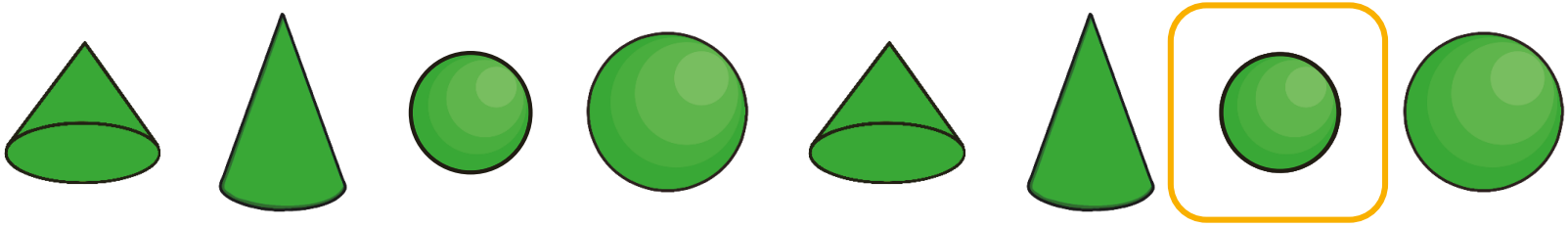
Can you continue this pattern?

Which strategy will you use?



Complete the Pattern

Which shape is missing from the pattern?

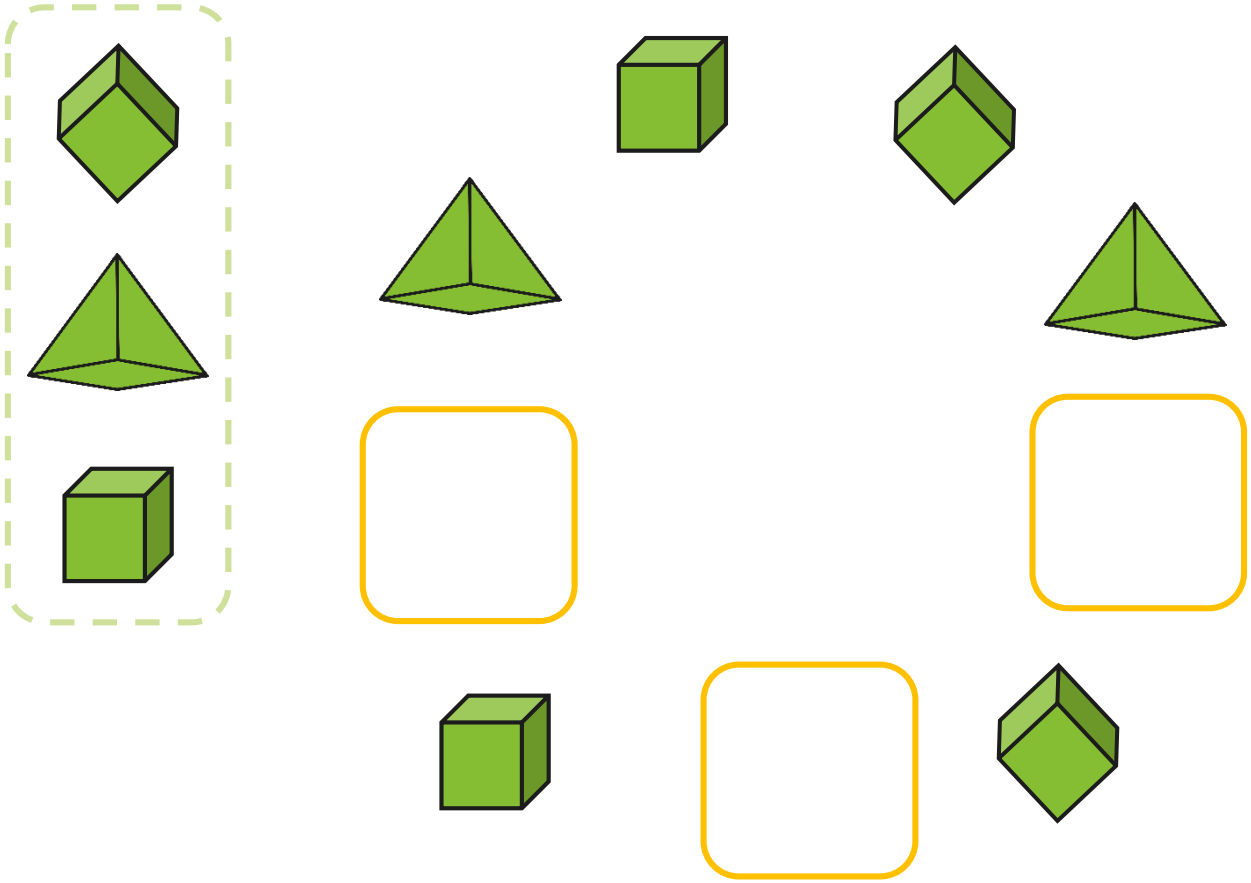


What can you do to find out?

- Say the pattern.
- Find the core.

Complete the Pattern

Where do these shapes belong in the pattern?



How did you know where to place each shape?

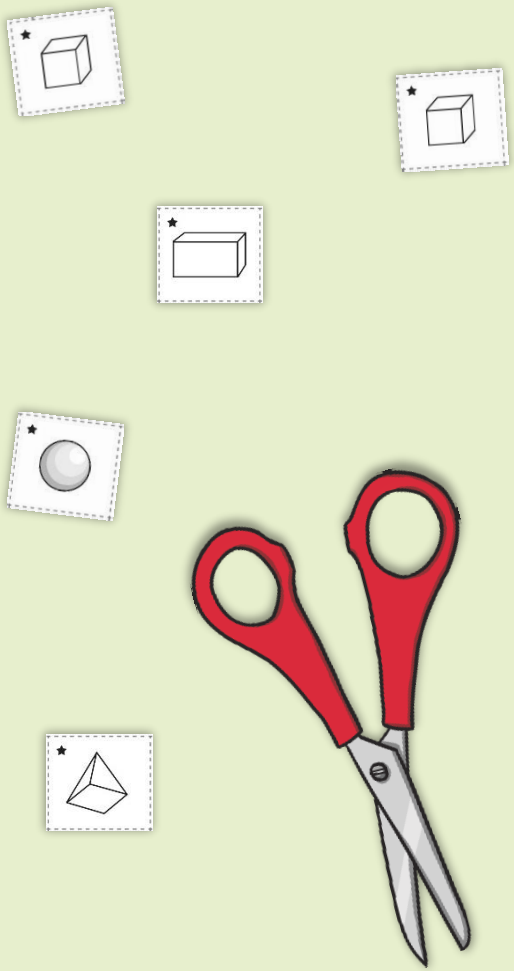
Make a Pattern

Use these shapes to make a pattern.

Compare your patterns.

- What's the same about them?
- What's different?

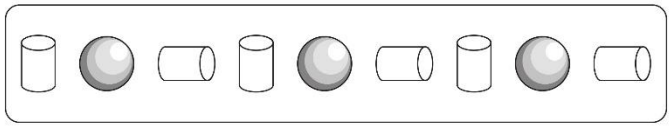
Make 3D Shape Patterns



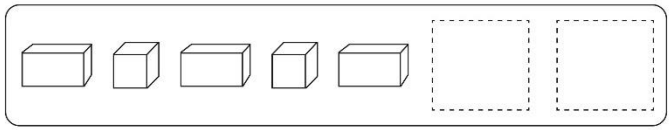
3D Shape Patterns

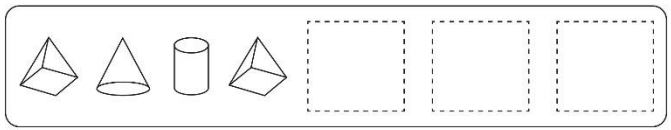
To introduce 3D shape patterns.

Draw a ring around the core.



Cut and stick the 3D shape pictures to continue the patterns.





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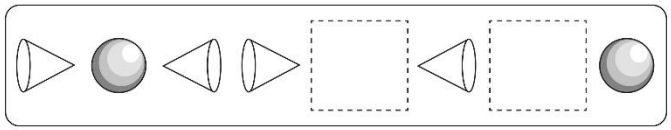

3D Shape Patterns

rns.

shape pattern.

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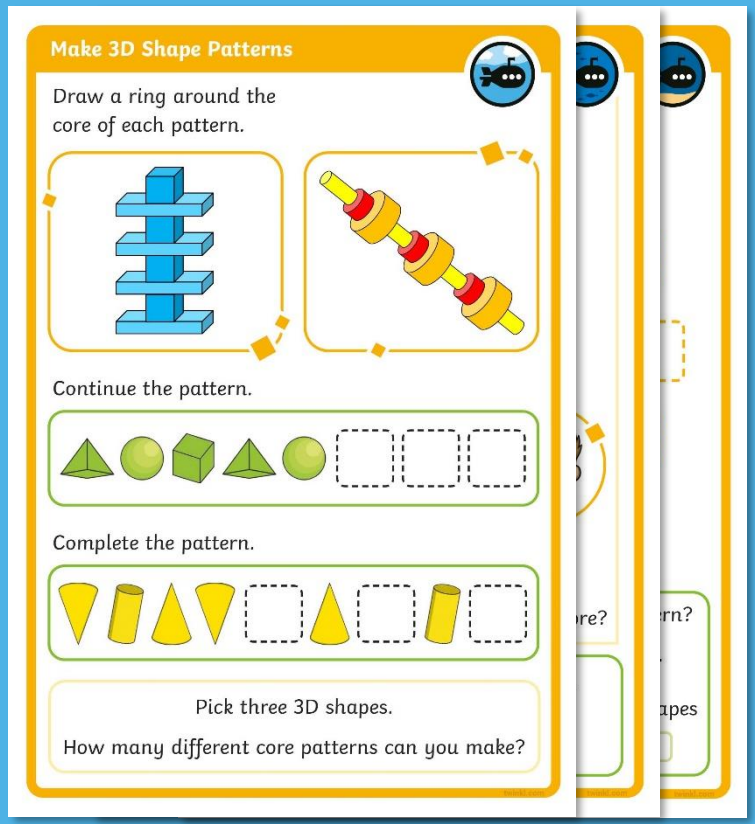
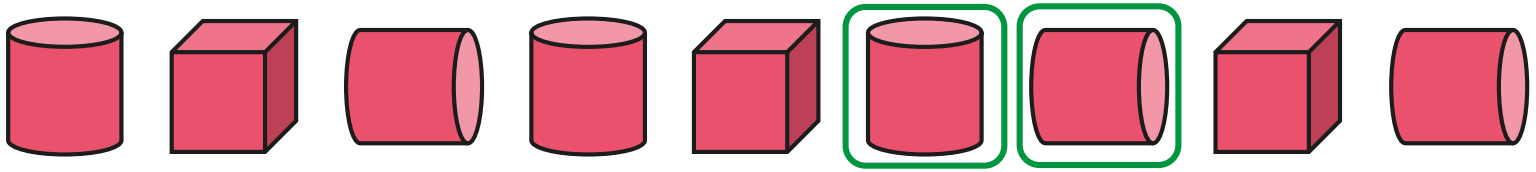
Diving into Mastery

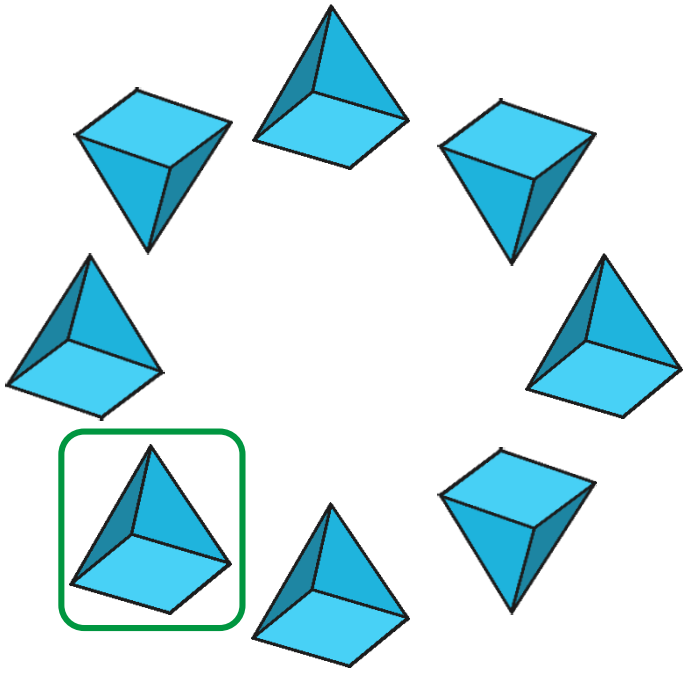
Dive in by completing your own activity!



Check the Patterns

Are these patterns correct?





Can you spot the mistakes?

What would you do to correct them?

Aim

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Success Criteria

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