Make Patterns with 3-D Shapes

Try to find 3D shapes in your house to use while completing this powerpoint.
Activity 1  Make Patterns with 3-D Shapes

Use some different coloured cubes to make a repeating pattern. Can you describe the pattern to your partner? Using colours? Using letters? Using sounds?

Can you explain your pattern to a partner?
Activity 1  
Make Patterns with 3-D Shapes

Use some different coloured cylinders to make a repeating pattern. Can you describe the pattern to your partner? Using colours? Using letters? Using sounds?
Activity 2  
Make Patterns with 3-D Shapes

Make a sequence of 3-D shapes. Can you build a similar pattern with real life objects? You could use food cans, boxes, balls, or other things in your classroom. Describe the pattern.

Where can you see real life patterns with 3-D shapes?
Activity 2  Make Patterns with 3-D Shapes

Make a sequence of 3-D shapes. Can you build a similar pattern with real life objects? You could use food cans, boxes, balls, or other things in your classroom. Describe the pattern.
Activity 2  Make Patterns with 3-D Shapes

Make a sequence of 3-D shapes. Can you build a similar pattern with real life objects? You could use food cans, boxes, balls, or other things in your classroom.
Describe the pattern.
How many times does the pattern repeat? What will the 10\textsuperscript{th} cylinder look like?

Does the shape always have to be a certain way up?
How many times does the pattern repeat? What will the 8th cuboid look like?
Reasoning - 1

Make Patterns with 3-D Shapes

What is the same about these patterns?

What is different about these patterns?

2 – Properties of Shape
Reasoning - 2
Make Patterns with 3-D Shapes

Choose two 3-D shapes.

What different repeating patterns could be made?
Using the 3-D shapes:

Make a repeating pattern where there are more cuboids than cones.

Make a repeating pattern where the third shape is always a cone.
Discussion  Make Patterns with 3-D Shapes

Where can you see real life patterns with 3-D shapes?

Can you explain your pattern to a partner?

Does the shape always have to be a certain way up?

Can you work out what shape would be the \( ___ \)th?