

Ready-to-go Lesson Slides Year 2

Please note: 3-D shapes, real-life 3-D objects and sorting hoops or similar are needed for this lesson.

Geometry: Properties of Shapes Lesson 11



At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

These ready-to-go slides are designed to work alongside our interventions to supplement quality first teaching and raise attainment in maths for all pupils.

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Boosting maths progress through 1-to-1 conversations...

CHIRD SPACE LEARNING



Success Criteria:

- □ I can sort 3D shapes into different groups
- □ I can label real life objects as 3D shapes

Starter:

Alena has found out a clever fact about 3-D shapes.

The number of edges + 2 = the number of faces + the number of vertices.

Does this work for a cuboid?





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The number of edges + 2 = the number of faces + the number of vertices. 12 + 2 = 6 + 8. 14 = 14.So, this does work for the cuboid. **Extension:** Does this work for other 3-D shapes? Can you investigate?



NIC

BAKE

To sort 3-D shapes

Talking Time:

Can you sort these real 3-D shapes into the correct groups?

TOBLERONE

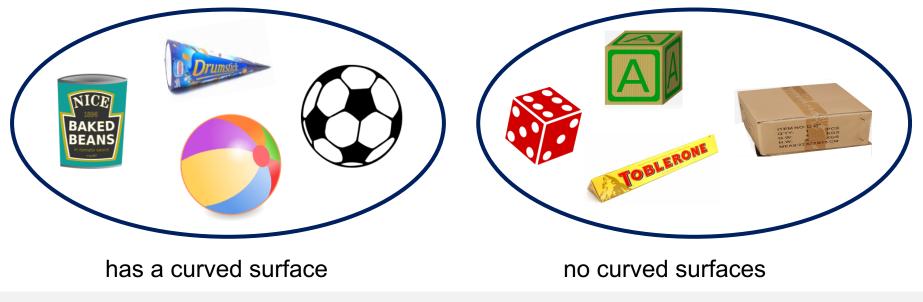
has a curved surface

no curved surfaces



Talking Time:

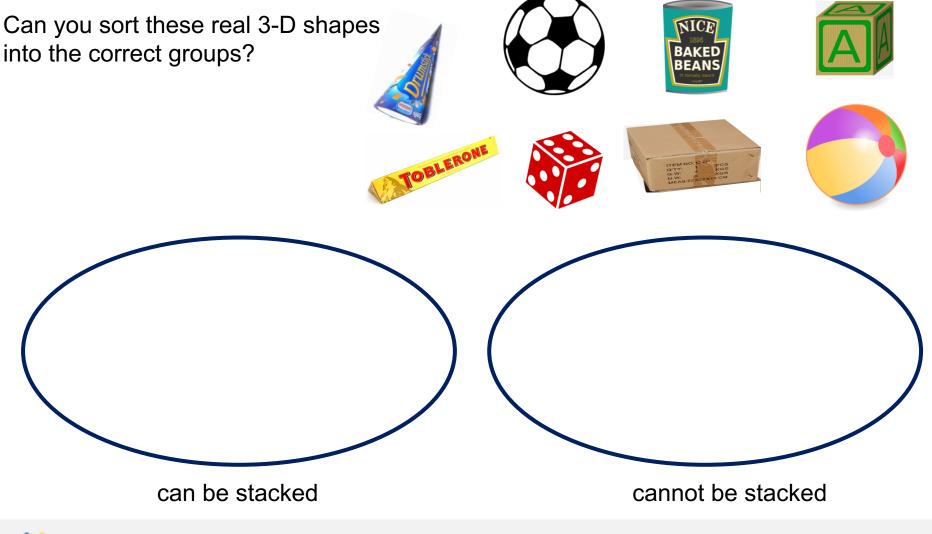
Can you sort these real 3-D shapes into the correct groups?





THIRD SPACE LEARNING

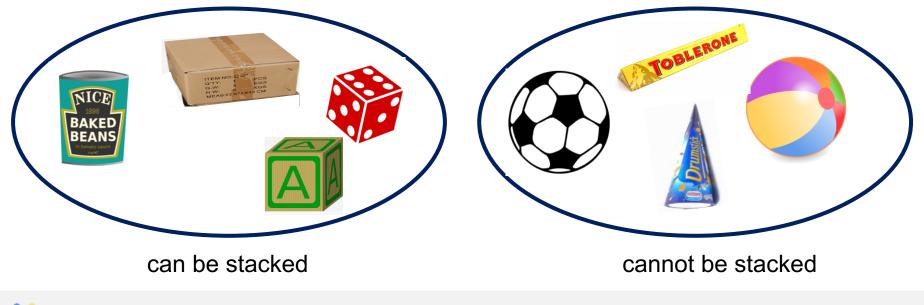
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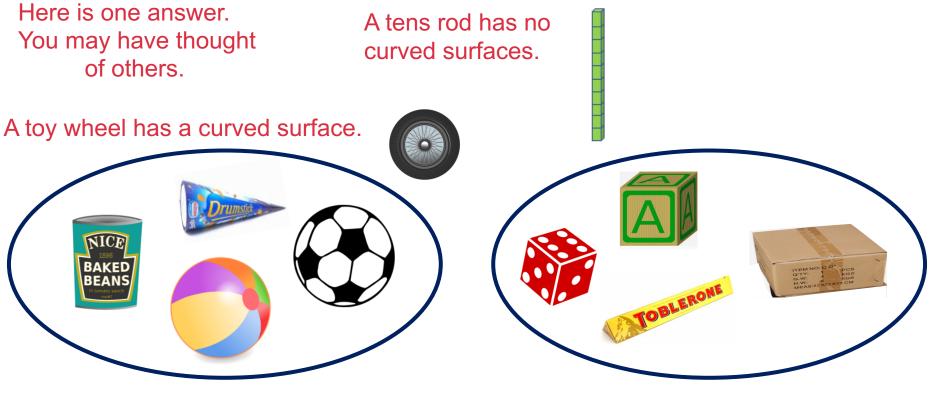
Talking Time:

Can you think of another real 3-D object that could fit into each of the two sorting groups?



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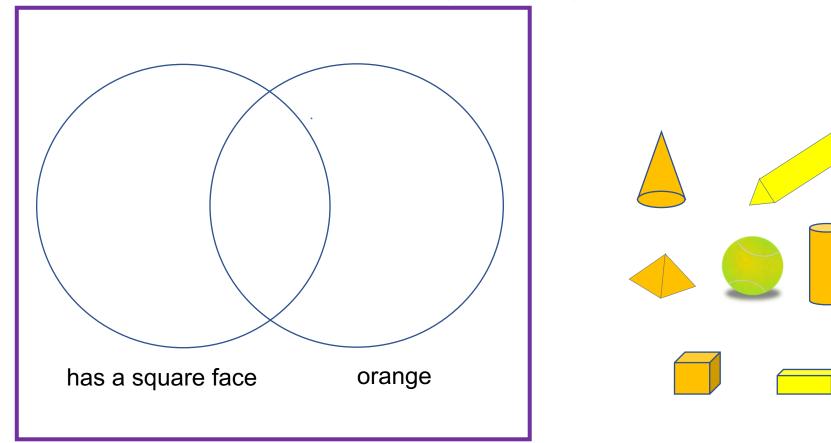


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no curved surfaces

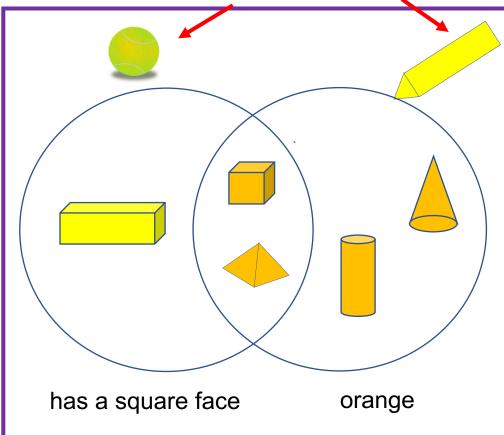


Activity 1: Here is a Venn diagram. Can you put the shapes into the right places? Where will the sphere and triangular prism go?



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Activity 1: Here is a Venn diagram. Can you put the shapes into the right places? Where will the sphere and triangular prism go?



The sphere is yellow and has no square faces. The triangular prism is yellow and has no square faces. That is why they are not in the hoops and stay outside.

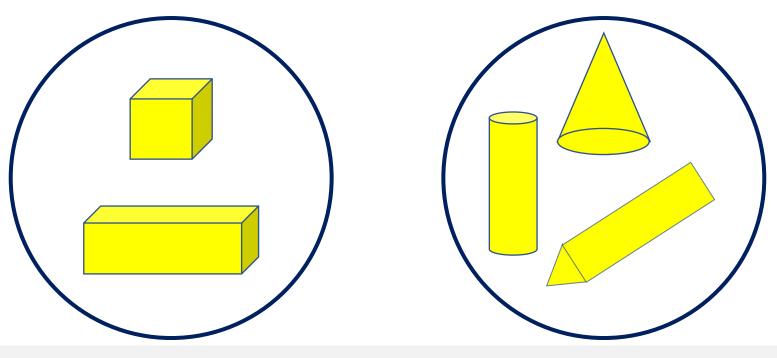
Extension:

Can you use the same shapes and the same sorting diagram, but think of two different labels?

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Talking Time:

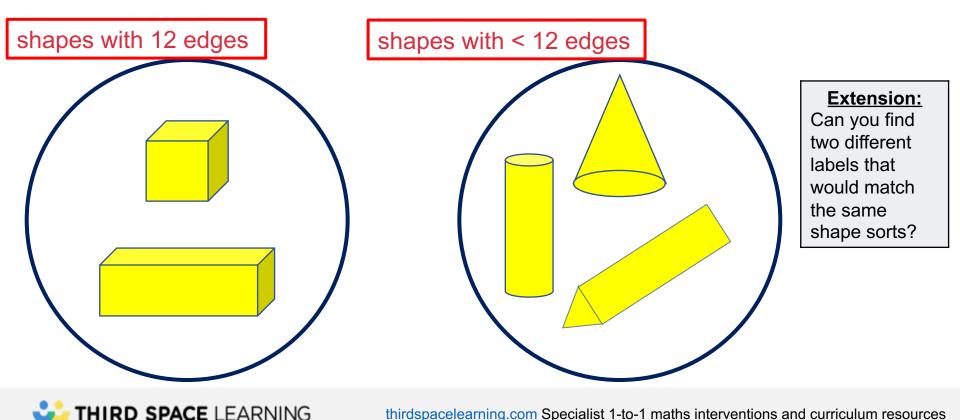
How have these 3-D shapes been sorted? Can you write some labels for the sorting hoops?





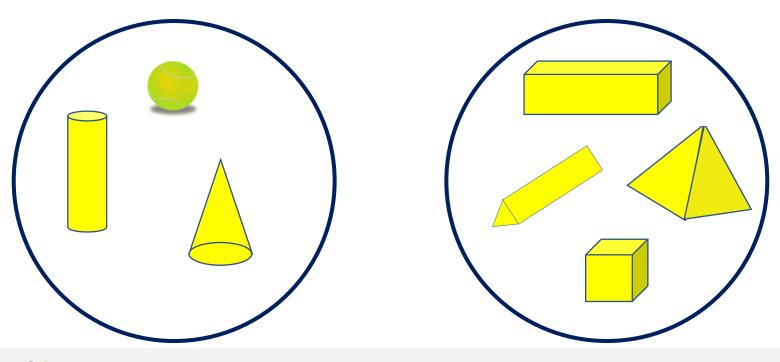
Talking Time:

How have these 3-D shapes been sorted? Can you write some labels for the sorting hoops? This is one answer. There could be others.



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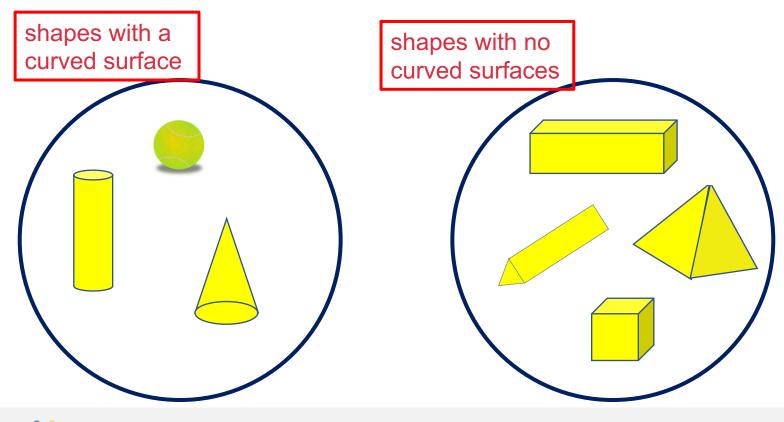


😍 THIRD SPACE LEARNING

Talking Time:

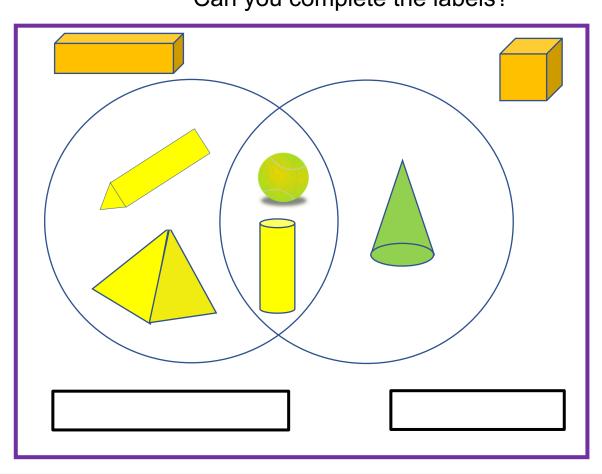
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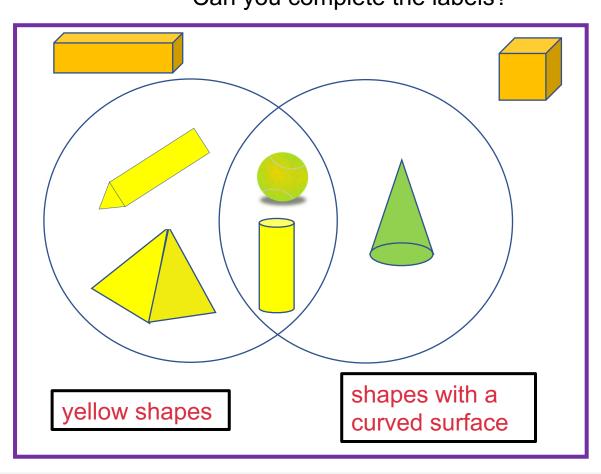
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Talking Time: Some 3-D shapes have been sorted into this
Venn diagram.
Can you complete the labels?



THIRD SPACE LEARNING

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Activity 2:

Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?

shapes with < 6 edges	shapes with > 6 edges
<image/>	TOTAL DESCRIPTION



Activity 2:

Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?

shapes with < 6 edges	shapes with > 6 edges
<image/>	TEN HO REP TEN HO REP

The pyramid is in the wrong place.

A pyramid has 8 edges, so it should be in the other section.



Talking Time:

Jenson is going to sort some shapes by the number of vertices.

He will sort them into this diagram.



Can you sort them as well and see if you agree with Jenson's sorting?

shapes that have 8 vertices	shapes that do not have 8 vertices	



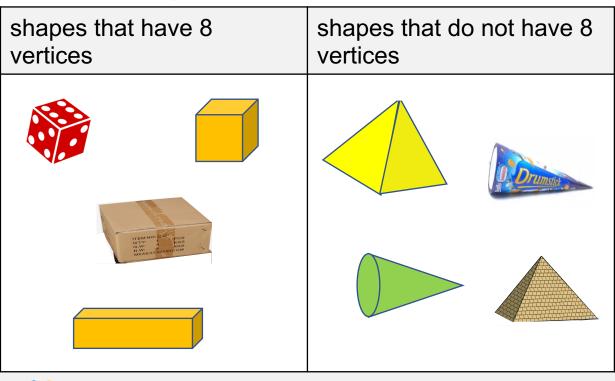
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Talking Time:

Jenson is going to sort the same shapes again. He will sort them into this diagram.

How might Jenson sort them this time? What will the titles of each section be?

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shapes ______
shapes ______

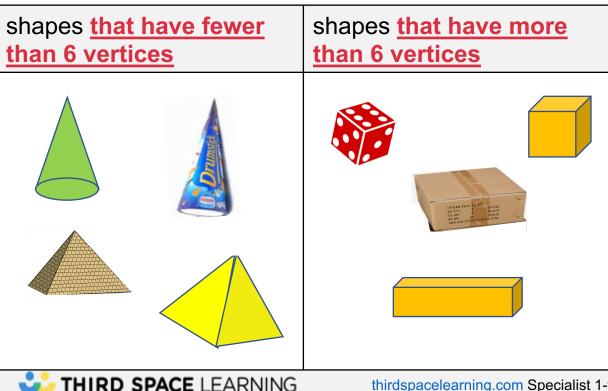
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Talking Time:

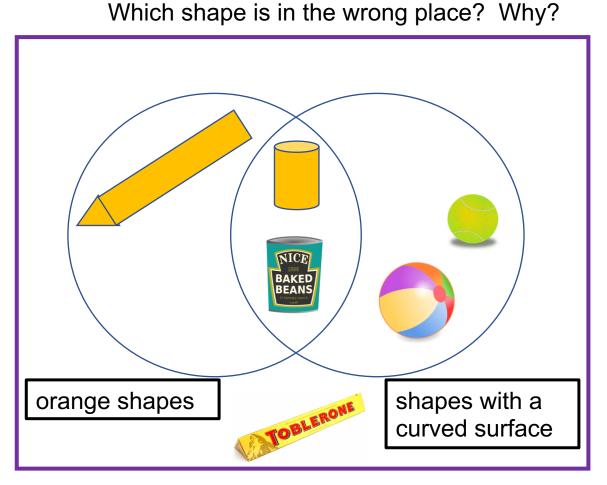
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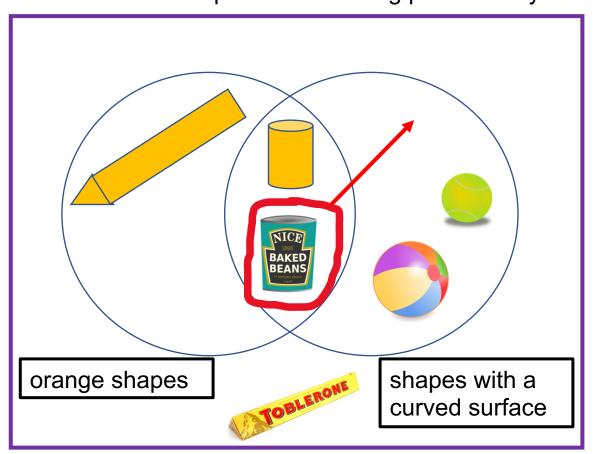


Activity 3: Some 3-D shapes and real objects have been sorted into this Venn diagram.



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Activity 3: Some 3-D shapes and real objects have been sorted into this Venn diagram. Which shape is in the wrong place? Why?



The baked beans tin should be in the shapes with a curved surface section. It is not orange, so it does not go in the centre with the other cylinder.



Evaluation: Here is a collection of 3-D shapes.

Can you decide how you might sort them all into the sorting

diagram?

Can you write your labels?

Is there a different way of sorting the same shapes?

shapes that	shapes that	
		TOBLERONE

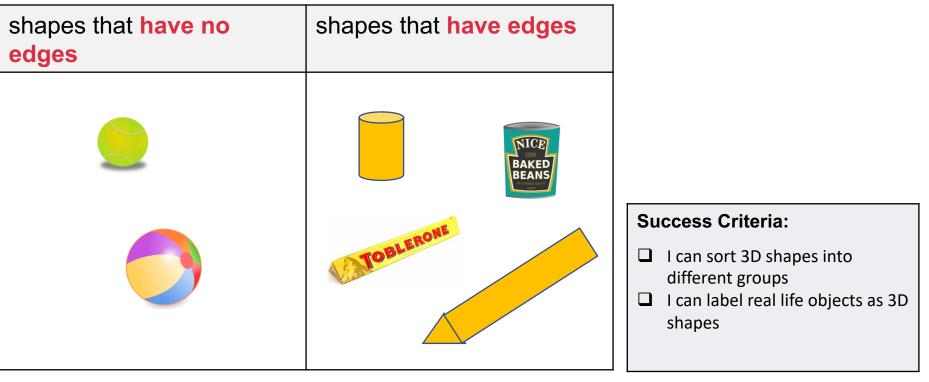


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