

Sort 3D Shapes

Adult Guidance with Question Prompts



For this activity children will need a selection of 3D shapes and real-life objects of the same shape to sort. Children may need a list of 3D shape vocabulary to help them write the shape names. Encourage children to think of other ways to sort, e.g. can/cannot roll, can/cannot stack, number of faces/vertices/edges, etc.

How have you sorted the shapes?

What are the names of these shapes?

Can you write a label for each of your groups?

Can you describe each of the shapes?

How many flat faces/curved surfaces do they have?

How many vertices?

How many edges?

Can you find any other shapes in the classroom to add to each group?

How else could you sort these shapes?

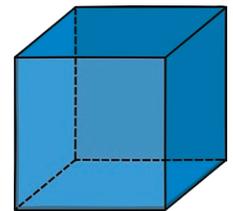
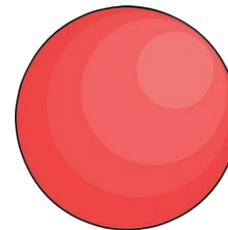
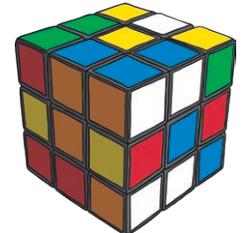
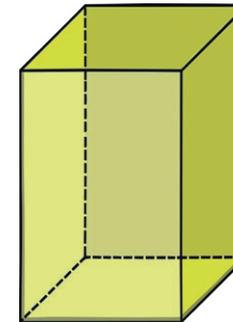
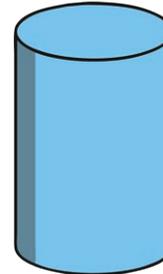
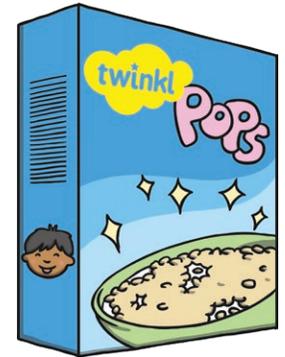
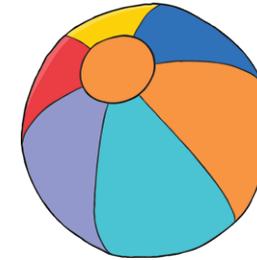
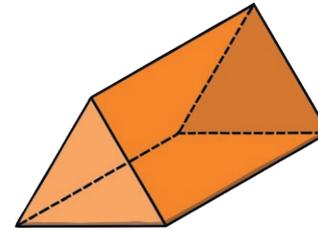
Can you write a label to explain how you've sorted them?

Compare your (shape name), what's the same and what's different about them?

Sort 3D Shapes



Sort your objects by their shape.



Label each group with the shape name.

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For this activity children will need a selection of 3D shapes and real-life objects to sort, including those with flat faces and curved surfaces. They should use the shape vocabulary they have learnt to describe their sorting.

What is a flat face?

What is a curved surface?

Can you think of any shapes that have just flat faces?

What are they?

Show me.

Where will they go in this diagram?

Are there any shapes with only curved surfaces?

How many?

What is it called?

Where will it go in this diagram?

Are there any shapes that have both flat faces and curved surfaces that could go in the intersection of this diagram?

Which ones?

What do you notice about these shapes?

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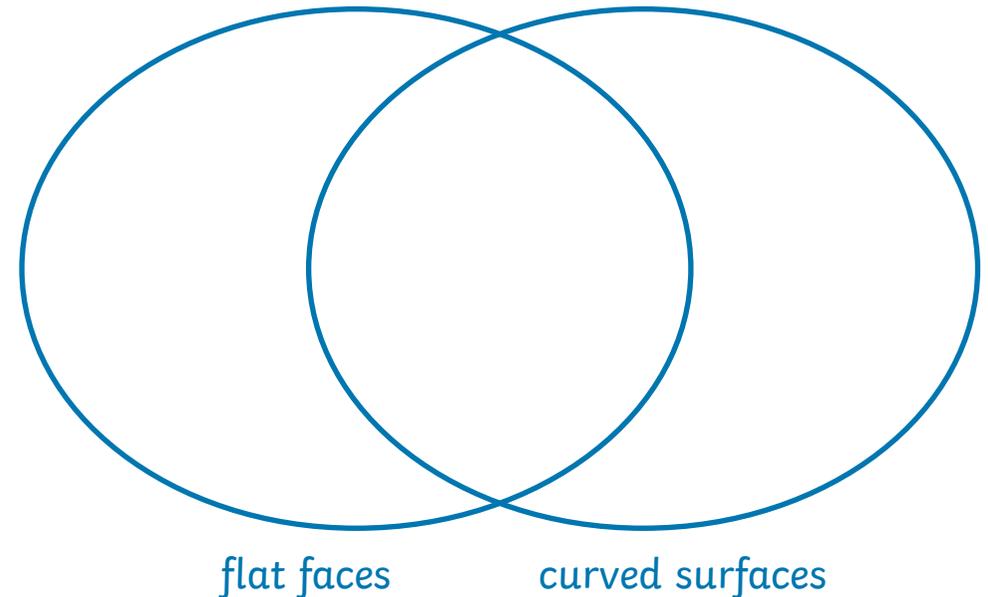


Anna is investigating shapes.

Some shapes have both flat faces and curved surfaces.



Is she correct?



Sort 3D shapes into a Venn Diagram and explain what you notice.

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Children can choose the sorting criteria and the method they use, e.g. Venn diagram or Carroll diagram. Provide children with 3D shapes or real objects to handle.

What are the names of these shapes?

What can you tell me about them?

How will you sort the shapes?

How do you know you have sorted them correctly?

Which sorting method have you used?

How can you use what you have learnt about the properties of 3D shapes to help you with your sorting?

Can you write labels for each group?

If you remove your label, can your friend guess how you have sorted them?

Can you sort your shapes in a different way?

What can you tell me about this shape?

What can you tell me about this group?

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How many ways can you sort these shapes into groups?

