

Diving into Mastery – Diving

Adult Guidance with Question Prompts

Provide children with 3D shapes which they can use to test if they roll or stack. Guide children in thinking why shapes roll (they have a curved face) and stack (they have flat faces).

Do you know the names of these shapes?

What are the names of the shapes which can roll?

What are the names of the shapes which can stack?

Why do you think the shapes which can roll do so?

Why do you think the shapes which stack do so?

Are there any shapes which can both roll and stack?

What do you notice about the shapes that stack?

Are there any shapes that can only go on the top when stacking?

What do you notice about the shapes that roll?

Are there any shapes which can neither roll nor stack?

Are there any objects around the room that can roll and stack?

Sort 3D Shapes



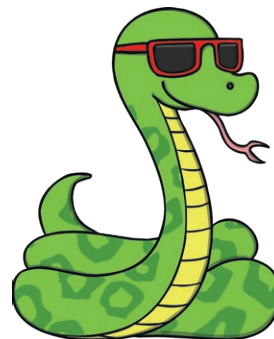
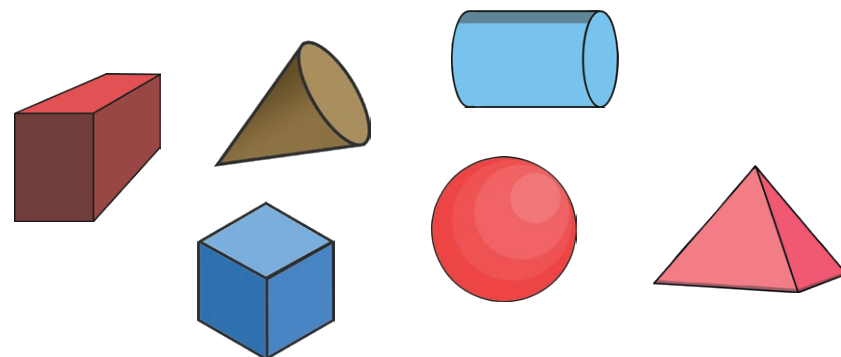
Sid the Snake only likes shapes which roll.

Sophie the Spider only likes shapes which stack.

Which of these shapes would Sid like?

Which would Sophie like?

Are there any shapes they will both like?



Diving into Mastery – Deeper

Adult Guidance with Question Prompts

You will need a selection of 3D shapes, two sorting hoops and the sorting labels from the card. Give children some of the 3D shapes shown on the card, to test whether they can roll or stack. Guide children in thinking why shapes roll (they have a curved face) and stack (they have flat faces). Present children with 3D shapes that have been sorted as in the card and invite them to discuss how they have been sorted. Use the other labels to sort the shapes in a different way.

Can you remember the names of these shapes?

How do you think I have sorted these shapes?

Why do you think that?

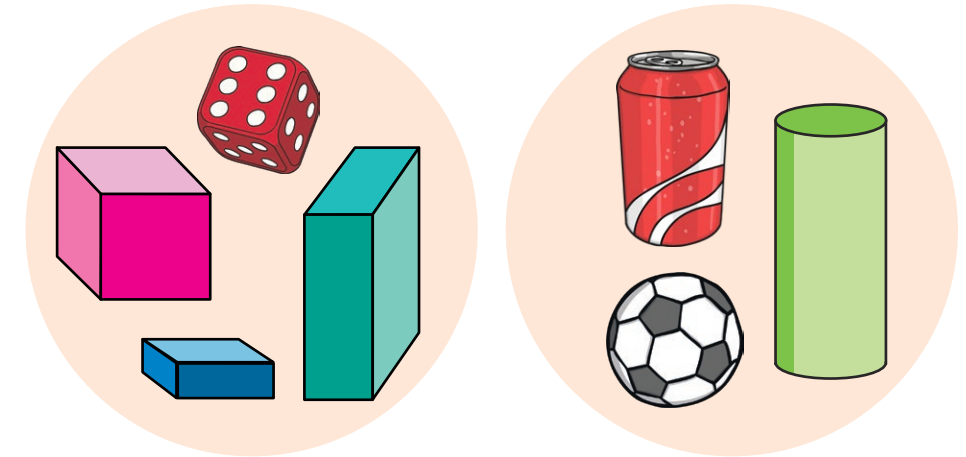
Explain your ideas.

What labels could we use to describe each group?

Sort 3D Shapes



Here are some shapes which have been sorted:



How have they been sorted?

Why do you think that?

Explain your ideas.

Shapes Which Roll

Shapes Which Stack

Cuboids and Cubes

Cylinders

Big Shapes

Small Shapes

Diving into Mastery – Deepest

Adult Guidance with Question Prompts

Give children 3D shapes (the same as the shapes on the card) and sorting circles. When the children have completed the activity, photograph what they have done.

Can you remember the names of these shapes?

Which of these shapes can roll?

Which of these shapes can stack?

Choose 2 different shapes. What is the same about them? What is different?

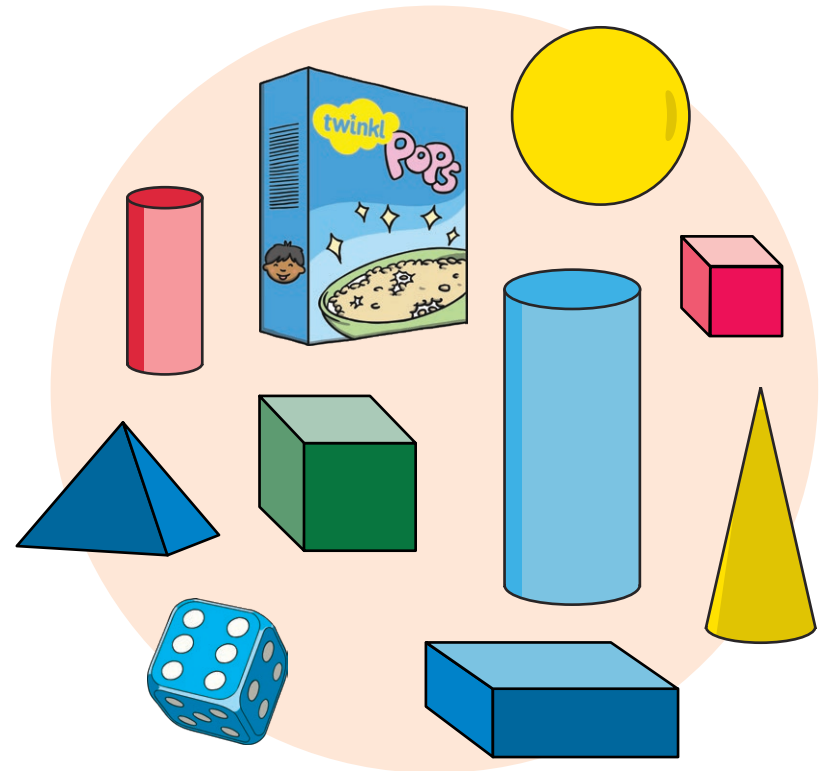
How could we sort these 3D shapes?

How could we label each group?

Are there any shapes which wouldn't fit into either of the groups?

Can you find objects around the room that would fit into each hoop?

Sort 3D Shapes



Use sorting circles and sort the shapes into 2 different groups.

Write labels which would explain how the shapes have been sorted.

Find objects around the room which would fit into each sorting hoop.