

CLASS 3 · MATHS · CHAPTER 2

Toy Joy

LEARN the ideas step by step, then CHECK with every question and activity from the textbook chapter

12

Learn slides

25

Exercise questions

5Look, name, build, count,
think

Ready-to-teach smartboard lessons, one click at a time.

How this deck runs

1

Learn

Click to reveal each idea.
Pause and ask the question in the notes before you click.

2

Try it

Quick sorts and "which type?" slides: let the class call out answers before each click.

3

Check

Every textbook question and activity. Students answer first, then click to reveal.

4

Discuss

Notes give a discussion question, a common mistake and words to listen for.

Let children explain their thinking in their own words.

LEARN

Toy Joy

Solid shapes · faces, edges, corners · toys · building with shapes

Faces on boxes, bottles and cones

Children make animal and bird faces from old boxes, cans and paper.

FREE SAMPLE
(EVALUATION ONLY)

Faces on boxes, bottles and cones

Children make animal and bird faces from old boxes, cans and paper.

Puppy on a cylinder

A bottle (cylinder) with a puppy face. It has wide ears.

Faces on boxes, bottles and cones

Children make animal and bird faces from old boxes, cans and paper.

Puppy on a cylinder

A bottle (cylinder) with a puppy face. It has wide ears.

Pig on a cube

A box (cube) with a pig face. It has narrow eyes.

Faces on boxes, bottles and cones

Children make animal and bird faces from old boxes, cans and paper.

Puppy on a cylinder

A bottle (cylinder) with a puppy face. It has wide ears.

Pig on a cube

A box (cube) with a pig face. It has narrow eyes.

Cat on a cuboid

A cuboid with a cat face. It has long whiskers.

Faces on boxes, bottles and cones

Children make animal and bird faces from old boxes, cans and paper.

Puppy on a cylinder

A bottle (cylinder) with a puppy face. It has wide ears.

Pig on a cube

A box (cube) with a pig face. It has narrow eyes.

Cat on a cuboid

A cuboid with a cat face. It has long whiskers.

Bird on a cone

A cone with a bird face. It has a pointed beak.

Face, edge and corner

The book marks these parts on a cube.

FREE SAMPLE
(EVALUATION ONLY)

Face, edge and corner

The book marks these parts on a cube.

Face

A flat side of a shape. A cube has 6 faces.

Face, edge and corner

The book marks these parts on a cube.

Face

A flat side of a shape. A cube has 6 faces.

Edge

The line where two faces meet.

Face, edge and corner

The book marks these parts on a cube.

Face

A flat side of a shape. A cube has 6 faces.

Edge

The line where two faces meet.

Corner

The point where edges meet.

Jaya builds a rocket

Jaya stacks shapes from the bottom up.

FREE SAMPLE
(EVALUATION ONLY)

Jaya builds a rocket

Jaya stacks shapes from the bottom up.

1

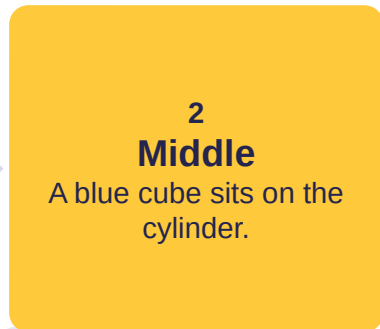
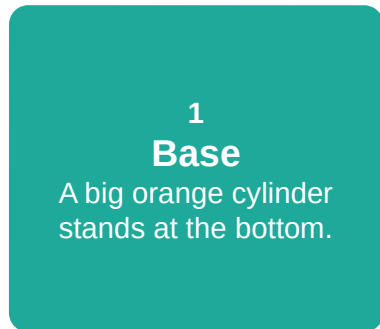
Base

A big orange cylinder stands at the bottom.

FREE SAMPLE
(EVALUATION ONLY)

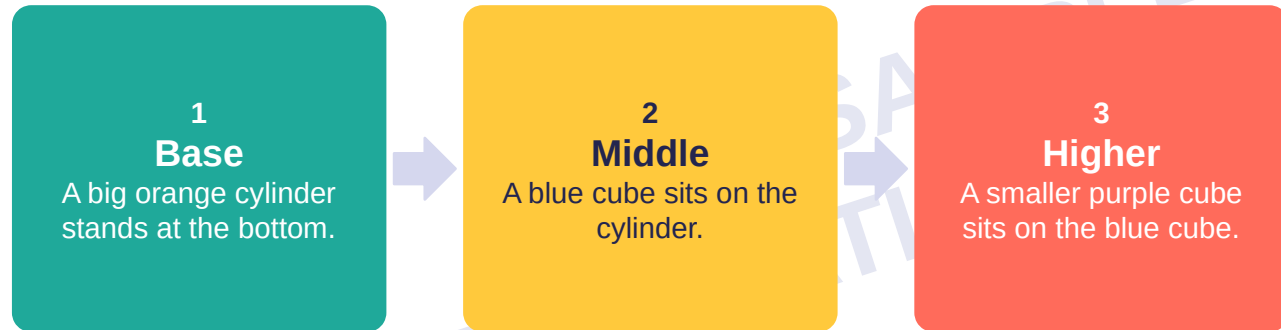
Jaya builds a rocket

Jaya stacks shapes from the bottom up.



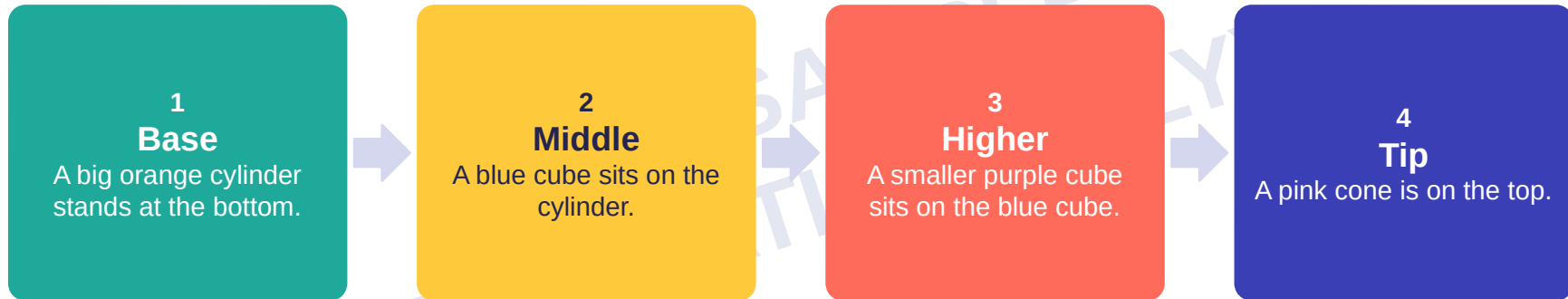
Jaya builds a rocket

Jaya stacks shapes from the bottom up.



Jaya builds a rocket

Jaya stacks shapes from the bottom up.



Shapes in Jaya's rocket

Count each kind of shape in the picture.

Shape	How many
FREE SAMPLE (EVALUATION ONLY)	

Shapes in Jaya's rocket

Count each kind of shape in the picture.

Shape	How many
Cube	2 (blue and purple)

Shapes in Jaya's rocket

Count each kind of shape in the picture.

Shape	How many
Cube	2 (blue and purple)
Cuboid	4 (red, yellow, green, light blue)

Shapes in Jaya's rocket

Count each kind of shape in the picture.

Shape	How many
Cube	2 (blue and purple)
Cuboid	4 (red, yellow, green, light blue)
Cone	1 (pink)

Shapes in Jaya's rocket

Count each kind of shape in the picture.

Shape	How many
Cube	2 (blue and purple)
Cuboid	4 (red, yellow, green, light blue)
Cone	1 (pink)
Cylinder	1 (orange)

Devika's toy engine

A toy engine has many parts.

Part

How many

Devika's toy engine

A toy engine has many parts.

Part	How many
Red cylinder	1

Devika's toy engine

A toy engine has many parts.

Part	How many
Red cylinder	1
Yellow cones	2 (the chimneys)

Devika's toy engine

A toy engine has many parts.

Part	How many
Red cylinder	1
Yellow cones	2 (the chimneys)
Grey cuboid	1 (the base)

Devika's toy engine

A toy engine has many parts.

Part	How many
Red cylinder	1
Yellow cones	2 (the chimneys)
Grey cuboid	1 (the base)
Blue cube	1 (the cab)

Shapes in more toys

Toys can be made from different shapes.

Toy	Shapes used
-----	-------------

Shapes in more toys

Toys can be made from different shapes.

Toy	Shapes used
Orange puppy-like toy	Cone (head), cylinder (body)

Shapes in more toys

Toys can be made from different shapes.

Toy	Shapes used
Orange puppy-like toy	Cone (head), cylinder (body)
Lollipop	Sphere (top), cylinder (stick)

Shapes in more toys

Toys can be made from different shapes.

Toy	Shapes used
Orange puppy-like toy	Cone (head), cylinder (body)
Lollipop	Sphere (top), cylinder (stick)
Yellow cat	Sphere (head), cylinder (body)

Shapes in more toys

Toys can be made from different shapes.

Toy	Shapes used
Orange puppy-like toy	Cone (head), cylinder (body)
Lollipop	Sphere (top), cylinder (stick)
Yellow cat	Sphere (head), cylinder (body)
Block toy	Cubes and cuboids

Build your own

Use things from home and school.

FREE SAMPLE
(EVALUATION ONLY)

Build your own

Use things from home and school.

A house

Name the shapes. Which faces and edges are straight, and which are curved?

Build your own

Use things from home and school.

A house

Name the shapes. Which faces and edges are straight, and which are curved?

Houses and towers

Jaya made houses from many shapes. Make towers and rockets too.

Build your own

Use things from home and school.

A house

Name the shapes. Which faces and edges are straight, and which are curved?

Houses and towers

Jaya made houses from many shapes. Make towers and rockets too.

See from far

What part of each shape can you see from a distance?

Flat and curved faces

Look at the five shapes of the chapter.

Shape

Flat faces

Curved faces

Flat and curved faces

Look at the five shapes of the chapter.

Shape	Flat faces	Curved faces
Cube	6	0

Flat and curved faces

Look at the five shapes of the chapter.

Shape	Flat faces	Curved faces
Cube	6	0
Cuboid	6	0

Flat and curved faces

Look at the five shapes of the chapter.

Shape	Flat faces	Curved faces
Cube	6	0
Cuboid	6	0
Cylinder	2	1

Flat and curved faces

Look at the five shapes of the chapter.

Shape	Flat faces	Curved faces
Cube	6	0
Cuboid	6	0
Cylinder	2	1
Cone	1	1

Flat and curved faces

Look at the five shapes of the chapter.

Shape	Flat faces	Curved faces
Cube	6	0
Cuboid	6	0
Cylinder	2	1
Cone	1	1
Sphere	0	1

Cubes, cuboids and dice

A few facts from the chapter.

FREE SAMPLE
(EVALUATION ONLY)

Cubes, cuboids and dice

A few facts from the chapter.

Special cuboid

A cube is a special type of cuboid.

Cubes, cuboids and dice

A few facts from the chapter.

Special cuboid

A cube is a special type of cuboid.

Opposite faces

Cubes, cuboids and cylinders have opposite faces. Turn them to see.

Cubes, cuboids and dice

A few facts from the chapter.

Special cuboid

A cube is a special type of cuboid.

Opposite faces

Cubes, cuboids and cylinders have opposite faces. Turn them to see.

A die

A die is a cube. Its faces have 1 to 6 dots.

Play: Construct and Describe

A game for a group of four or five.

FREE SAMPLE
(EVALUATION ONLY)

Play: Construct and Describe

A game for a group of four or five.

Build

One child picks any three shapes and puts them together.

Play: Construct and Describe

A game for a group of four or five.

Build

One child picks any three shapes and puts them together.

Describe

The child says how it was built. For example, the cone is on the cylinder.

Play: Construct and Describe

A game for a group of four or five.

Build

One child picks any three shapes and puts them together.

Describe

The child says how it was built. For example, the cone is on the cylinder.

Copy

The others build the same without seeing it. Take turns.

Clay, sticks and cubes

Build shapes in different ways.

FREE SAMPLE
(EVALUATION ONLY)

Clay, sticks and cubes

Build shapes in different ways.

Clay and sticks

Balls of clay are the corners.
Sticks are the edges.

Clay, sticks and cubes

Build shapes in different ways.

Clay and sticks

Balls of clay are the corners.
Sticks are the edges.

Joining cubes

Join 3 cubes in different ways. How many shapes can you make?

Clay, sticks and cubes

Build shapes in different ways.

Clay and sticks

Balls of clay are the corners.
Sticks are the edges.

Joining cubes

Join 3 cubes in different ways. How many shapes can you make?

Six dice

Use six dice to make a cuboid, a tower or any shape you like.

Points to remember

FREE SAMPLE
(EVALUATION ONLY)

Points to remember

- 1 Shapes can be cube, cuboid, cylinder, cone or sphere.

FREE SAMPLE
(EVALUATION ONLY)

Points to remember

1 Shapes can be cube, cuboid, cylinder, cone or sphere.

2 A cube is a special type of cuboid.

FREE SAMPLE
(EVALUATION ONLY)

Points to remember

1 Shapes can be cube, cuboid, cylinder, cone or sphere.

2 A cube is a special type of cuboid.

3 Shapes have faces, edges and corners.

Points to remember

1 Shapes can be cube, cuboid, cylinder, cone or sphere.

2 A cube is a special type of cuboid.

3 Shapes have faces, edges and corners.

4 Opposite faces of a die: look for the pattern.

Points to remember

1 Shapes can be cube, cuboid, cylinder, cone or sphere.

2 A cube is a special type of cuboid.

3 Shapes have faces, edges and corners.

4 Opposite faces of a die: look for the pattern.

5 We can build toys, houses and towers from shapes.

CHECK

Let us do, discuss and play

Every task from the textbook chapter, in book order, with a worked answer. Picture tasks were answered from the page images. Open tasks show what a good answer includes.

Use old boxes (cubes and cuboids) and bottles (cylinders) to do craft work. Draw faces on them.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Use old boxes (cubes and cuboids) and bottles (cylinders) to do craft work. Draw faces on them.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer makes at least a few faces on boxes and bottles, and says which shape each one is (cube, cuboid or cylinder).

Use old boxes (cubes and cuboids) and bottles (cylinders) to do craft work. Draw faces on them.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer makes at least a few faces on boxes and bottles, and says which shape each one is (cube, cuboid or cylinder).

Listen for:**boxes and bottles****shape names**

What did you draw on their faces?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

What did you draw on their faces?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer names the face (for example a pig, a cat, a puppy) and the shape it was drawn on, like the book children: pig on a cube, cat on a cuboid, puppy on a cylinder.

What did you draw on their faces?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer names the face (for example a pig, a cat, a puppy) and the shape it was drawn on, like the book children: pig on a cube, cat on a cuboid, puppy on a cylinder.

Listen for:

face named

shape named

1 Cube

2 Cuboid

3 Cone

4 Cylinder

1 Cube

2

2 Cuboid

3 Cone

4 Cylinder

1 Cube

2

2 Cuboid

4

3 Cone

4 Cylinder

1 Cube

2

2 Cuboid

4

3 Cone

1

4 Cylinder

1 Cube

2

2 Cuboid

4

3 Cone

1

4 Cylinder

1

Say which shape is in each place (from the picture)

Question	Shape
Between red and yellow cuboid	
On top of the orange cylinder	
Under the pink cone	

Say which shape is in each place (from the picture)

Question	Shape
Between red and yellow cuboid	Orange cylinder
On top of the orange cylinder	
Under the pink cone	

Say which shape is in each place (from the picture)

Question

Between red and yellow cuboid

On top of the orange cylinder

Under the pink cone

Shape

Orange cylinder

Blue cube

Say which shape is in each place (from the picture)

Question	Shape
Between red and yellow cuboid	Orange cylinder
On top of the orange cylinder	Blue cube
Under the pink cone	Purple cube

Collect objects to make a house. Name the shapes. Which faces and edges are straight or curved? How are they arranged? What can you see from far?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Collect objects to make a house. Name the shapes. Which faces and edges are straight or curved? How are they arranged? What can you see from far?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer names each shape, says cubes and cuboids have flat faces and straight edges, cylinders and cones have curved parts, and describes where each shape is (on, under, beside).

Collect objects to make a house. Name the shapes. Which faces and edges are straight or curved? How are they arranged? What can you see from far?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer names each shape, says cubes and cuboids have flat faces and straight edges, cylinders and cones have curved parts, and describes where each shape is (on, under, beside).

Listen for:

shape names

flat or curved

on, under, beside

1 Red cylinder(s)

2 Yellow cone(s)

3 Grey cuboid(s)

4 Blue cube(s)

1 Red cylinder(s)

1

2 Yellow cone(s)

3 Grey cuboid(s)

4 Blue cube(s)

1 Red cylinder(s)

1

2 Yellow cone(s)

2

3 Grey cuboid(s)

4 Blue cube(s)

1 Red cylinder(s)

1

2 Yellow cone(s)

2

3 Grey cuboid(s)

1

4 Blue cube(s)

1 Red cylinder(s)

1

2 Yellow cone(s)

2

3 Grey cuboid(s)

1

4 Blue cube(s)

1

What shapes are used in these toys?

Toy (left to right)	Shapes
1. Orange toy with pointed head	
2. Lollipop	
3. Yellow cat	
4. Blocks on a board	

What shapes are used in these toys?

Toy (left to right)	Shapes
1. Orange toy with pointed head	Cone and cylinder
2. Lollipop	
3. Yellow cat	
4. Blocks on a board	

What shapes are used in these toys?

Toy (left to right)	Shapes
1. Orange toy with pointed head	Cone and cylinder
2. Lollipop	Sphere and cylinder
3. Yellow cat	
4. Blocks on a board	

What shapes are used in these toys?

Toy (left to right)	Shapes
1. Orange toy with pointed head	Cone and cylinder
2. Lollipop	Sphere and cylinder
3. Yellow cat	Sphere and cylinder
4. Blocks on a board	

What shapes are used in these toys?

Toy (left to right)	Shapes
1. Orange toy with pointed head	Cone and cylinder
2. Lollipop	Sphere and cylinder
3. Yellow cat	Sphere and cylinder
4. Blocks on a board	Cubes and cuboids

Jaya made some houses using different shapes. Try to build such houses, towers, rockets, etc., using different shapes around you.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Jaya made some houses using different shapes. Try to build such houses, towers, rockets, etc., using different shapes around you.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good build uses several shapes, stands without falling, and the child can name the shapes and say where each is placed.

Jaya made some houses using different shapes. Try to build such houses, towers, rockets, etc., using different shapes around you.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good build uses several shapes, stands without falling, and the child can name the shapes and say where each is placed.

Listen for:**several shapes****stands firm**

Play Construct and Describe in a group of four or five. One child joins any three shapes and describes how; the others build the same without seeing it.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Play Construct and Describe in a group of four or five. One child joins any three shapes and describes how; the others build the same without seeing it.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good game: the describer uses words like on, under, beside and names each shape; the others build the same model. Example: the cylinder is on the cuboid; the cone is on the cylinder.

Play Construct and Describe in a group of four or five. One child joins any three shapes and describes how; the others build the same without seeing it.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good game: the describer uses words like on, under, beside and names each shape; the others build the same model. Example: the cylinder is on the cuboid; the cone is on the cylinder.

Listen for:**on, under, beside****same model**

Find shapes in the classroom that look like a cylinder, sphere, cube, cuboid and cone. Fill in the table with their names.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Find shapes in the classroom that look like a cylinder, sphere, cube, cuboid and cone. Fill in the table with their names.

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Examples: cylinder - chalk, bottle; sphere - ball, globe; cube - dice, small box; cuboid - book, duster box, board; cone - party hat, funnel.

Find shapes in the classroom that look like a cylinder, sphere, cube, cuboid and cone. Fill in the table with their names.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. Examples: cylinder - chalk, bottle; sphere - ball, globe; cube - dice, small box; cuboid - book, duster box, board; cone - party hat, funnel.

Listen for:**5 columns filled****right shape**

(a) Name the shape you find the most. (b) Name the shape you find the least. (c) Name objects that are made of more than one shape.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

(a) Name the shape you find the most. (b) Name the shape you find the least. (c) Name objects that are made of more than one shape.

Think and write your answer first. Then share with your partner.

Model answer

Answers vary with the class table. A good answer compares the number of objects in each column. Objects of more than one shape: a pencil (cylinder and cone), a toy engine, a house model.

(a) Name the shape you find the most. (b) Name the shape you find the least. (c) Name objects that are made of more than one shape.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary with the class table. A good answer compares the number of objects in each column. Objects of more than one shape: a pencil (cylinder and cone), a toy engine, a house model.

Listen for:

uses the table

compares counts

Look at the 13 shapes in the picture

Instruction

Circle the cubes (3)

Tick the cones (3)

Cross the cylinders (3)

Box the cuboids (3)

Which shapes (colour)

Look at the 13 shapes in the picture

Instruction

Circle the cubes (3)

Tick the cones (3)

Cross the cylinders (3)

Box the cuboids (3)

Which shapes (colour)

Big green, blue, small green

Look at the 13 shapes in the picture

Instruction

Circle the cubes (3)

Tick the cones (3)

Cross the cylinders (3)

Box the cuboids (3)

Which shapes (colour)

Big green, blue, small green

Yellow, green, pink

Look at the 13 shapes in the picture

Instruction

Circle the cubes (3)

Tick the cones (3)

Cross the cylinders (3)

Box the cuboids (3)

Which shapes (colour)

Big green, blue, small green

Yellow, green, pink

White, light blue, orange

Look at the 13 shapes in the picture

Instruction

Circle the cubes (3)

Tick the cones (3)

Cross the cylinders (3)

Box the cuboids (3)

Which shapes (colour)

Big green, blue, small green

Yellow, green, pink

White, light blue, orange

Tall pink, flat pink, purple

Name the shapes

Clue	Shape(s)
No edges	
Only flat faces	
Only curved faces	
Straight and curved edges	
Flat and curved faces	

Name the shapes

Clue	Shape(s)
No edges	Sphere
Only flat faces	
Only curved faces	
Straight and curved edges	
Flat and curved faces	

Name the shapes

Clue	Shape(s)
No edges	Sphere
Only flat faces	Cube, cuboid
Only curved faces	
Straight and curved edges	
Flat and curved faces	

Name the shapes

Clue	Shape(s)
No edges	Sphere
Only flat faces	Cube, cuboid
Only curved faces	Sphere
Straight and curved edges	
Flat and curved faces	

Name the shapes

Clue	Shape(s)
No edges	Sphere
Only flat faces	Cube, cuboid
Only curved faces	Sphere
Straight and curved edges	None (see notes)
Flat and curved faces	

Name the shapes

Clue	Shape(s)
No edges	Sphere
Only flat faces	Cube, cuboid
Only curved faces	Sphere
Straight and curved edges	None (see notes)
Flat and curved faces	Cylinder, cone

Look for different shapes in the classroom, share more examples of each shape, and talk about opposite faces of cubes, cuboids and cylinders.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Look for different shapes in the classroom, share more examples of each shape, and talk about opposite faces of cubes, cuboids and cylinders.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good answer gives more examples for each shape and says that a cube has 3 pairs of opposite faces; a cylinder has 2 opposite flat faces (top and bottom).

Look for different shapes in the classroom, share more examples of each shape, and talk about opposite faces of cubes, cuboids and cylinders.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good answer gives more examples for each shape and says that a cube has 3 pairs of opposite faces; a cylinder has 2 opposite flat faces (top and bottom).

Listen for:**more examples****opposite faces**

Shapes made with clay balls and sticks

Picture	Shape built
Left: 4 balls and 6 sticks	
Right: 8 balls and 12 sticks	

Shapes made with clay balls and sticks

Picture

Left: 4 balls and 6 sticks

Right: 8 balls and 12 sticks

Shape built

Triangle-based pyramid

Shapes made with clay balls and sticks

Picture

Left: 4 balls and 6 sticks

Right: 8 balls and 12 sticks

Shape built

Triangle-based pyramid

Box frame (cuboid)

Try to make these shapes using cubes.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Try to make these shapes using cubes.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result copies each picture with cubes: the green shape has three arms of cubes joined at one cube, and the pink shape is a tall column with cubes joined on its sides.

Try to make these shapes using cubes.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result copies each picture with cubes: the green shape has three arms of cubes joined at one cube, and the pink shape is a tall column with cubes joined on its sides.

Listen for:

copies the picture

cubes joined fully

Roll the die and move the counter to the next picture of the shape for the number (1 cylinder, 2 sphere, 3 cone, 4 cube, 5 cuboid, 6 move 2 steps). First to Finish wins.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Roll the die and move the counter to the next picture of the shape for the number (1 cylinder, 2 sphere, 3 cone, 4 cube, 5 cuboid, 6 move 2 steps). First to Finish wins.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good game: the child names the shape of the picture landed on. For example, a ball is a sphere and a die is a cube; with 6 the counter moves 2 steps if possible.

Roll the die and move the counter to the next picture of the shape for the number (1 cylinder, 2 sphere, 3 cone, 4 cube, 5 cuboid, 6 move 2 steps). First to Finish wins.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good game: the child names the shape of the picture landed on. For example, a ball is a sphere and a die is a cube; with 6 the counter moves 2 steps if possible.

Listen for:

die number to shape

name each picture

In what ways are the cylinder, cube, cone, cuboid and sphere the same? In what ways are they different?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

In what ways are the cylinder, cube, cone, cuboid and sphere the same? In what ways are they different?

30s

Think and write your answer first. Then share with your partner.

Model answer

Same: all are solid shapes. Different: cubes and cuboids have only flat faces; cylinder and cone have flat and curved faces; sphere has one curved face; they have different edges and corners.

In what ways are the cylinder, cube, cone, cuboid and sphere the same? In what ways are they different?

30s

Think and write your answer first. Then share with your partner.

Model answer

Same: all are solid shapes. Different: cubes and cuboids have only flat faces; cylinder and cone have flat and curved faces; sphere has one curved face; they have different edges and corners.

Listen for:**all solid****flat or curved**

Look at a die with 1 to 6 dots

Face	Opposite face
1	
2	
3	
Pattern	

Look at a die with 1 to 6 dots

Face	Opposite face
1	6
2	
3	
Pattern	

Look at a die with 1 to 6 dots

Face	Opposite face
1	6
2	5
3	
Pattern	

Look at a die with 1 to 6 dots

Face	Opposite face
1	6
2	5
3	4
Pattern	

Look at a die with 1 to 6 dots

Face	Opposite face
1	6
2	5
3	4
Pattern	Opposite faces add up to 7

In what order is this model built?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

In what order is this model built?

30s

Think and write your answer first. Then share with your partner.

Model answer

From the bottom: 1) big wooden blocks and small pink steps, 2) a flat slab, 3) four cylinders, 4) a second flat slab, 5) four cones on top.

In what order is this model built?

30s

Think and write your answer first. Then share with your partner.

Model answer

From the bottom: 1) big wooden blocks and small pink steps, 2) a flat slab, 3) four cylinders, 4) a second flat slab, 5) four cones on top.

Listen for:

bottom to top

cones last

What shape do you get if you join a cube and a cuboid?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

What shape do you get if you join a cube and a cuboid?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers can vary. If the cube is joined to the end of a cuboid with the same size of face, you get a longer cuboid. If the cube is smaller, you get a step or L shape.

What shape do you get if you join a cube and a cuboid?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers can vary. If the cube is joined to the end of a cuboid with the same size of face, you get a longer cuboid. If the cube is smaller, you get a step or L shape.

Listen for:

longer cuboid

step shape

How many cubes are used to make the shape on the table?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

How many cubes are used to make the shape on the table?

30s

Think and write your answer first. Then share with your partner.

Model answer

About 21 cubes (best reading of the picture; not certain). Heights in the stepped block: 3, 3, 3, then 1, 3, 3, then 1, 2, 2 cubes: $3 + 3 + 3 + 1 + 3 + 3 + 1 + 2 + 2 = 21$.

How many cubes are used to make the shape on the table?

30s

Think and write your answer first. Then share with your partner.

Model answer

About 21 cubes (best reading of the picture; not certain). Heights in the stepped block: 3, 3, 3, then 1, 3, 3, then 1, 2, 2 cubes: $3 + 3 + 3 + 1 + 3 + 3 + 1 + 2 + 2 = 21$.

Listen for:

count by layers

about 21

In how many different ways can you join 3 cubes? What possible shapes do you get?

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

In how many different ways can you join 3 cubes? What possible shapes do you get?

30s

Think and write your answer first. Then share with your partner.

Model answer

Two main shapes: 3 cubes in a straight line (a cuboid, as in the picture) and 3 cubes in a bent L shape.

In how many different ways can you join 3 cubes? What possible shapes do you get?

30s

Think and write your answer first. Then share with your partner.

Model answer

Two main shapes: 3 cubes in a straight line (a cuboid, as in the picture) and 3 cubes in a bent L shape.

Listen for:**straight line****L shape**

Name the shapes and how they are arranged

Model	Shapes and arrangement
(a)	
(b)	
(c)	
(d)	

Name the shapes and how they are arranged

Model	Shapes and arrangement
(a)	5 cuboids: orange, yellow, 2 green, red on top
(b)	
(c)	
(d)	

Name the shapes and how they are arranged

Model

(a)

Shapes and arrangement

5 cuboids: orange, yellow, 2 green,
red on top

(b)

6 cuboids: 5 stacked, long green
on top

(c)

(d)

Name the shapes and how they are arranged

Model

(a)

Shapes and arrangement

5 cuboids: orange, yellow, 2 green, red on top

(b)

6 cuboids: 5 stacked, long green on top

(c)

6 cuboids stacked in a tower

(d)

Name the shapes and how they are arranged

Model	Shapes and arrangement
(a)	5 cuboids: orange, yellow, 2 green, red on top
(b)	6 cuboids: 5 stacked, long green on top
(c)	6 cuboids stacked in a tower
(d)	3 cuboids as steps: green, red, orange

Use six dice to make (a) a cuboid, (b) a tower, (c) any other shape of your choice.

30s

Think and write your answer first. Then share with your partner.

FREE SAMPLE
(EVALUATION ONLY)

Use six dice to make (a) a cuboid, (b) a tower, (c) any other shape of your choice.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good answer: (a) two rows of three dice make a cuboid ($2 \times 3 = 6$); (b) all six dice stacked in one column; (c) any joined shape, such as steps or an L.

Use six dice to make (a) a cuboid, (b) a tower, (c) any other shape of your choice.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good answer: (a) two rows of three dice make a cuboid ($2 \times 3 = 6$); (b) all six dice stacked in one column; (c) any joined shape, such as steps or an L.

Listen for:

cuboid 2×3

tower of 6

Chapter 2 complete

Look around you. Which shape can you find: a cube, a cuboid, a cylinder, a cone or a sphere?



Solid shapes



**Faces, edges,
corners**



**Opposite faces of
a die**



**Building with
cubes**

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