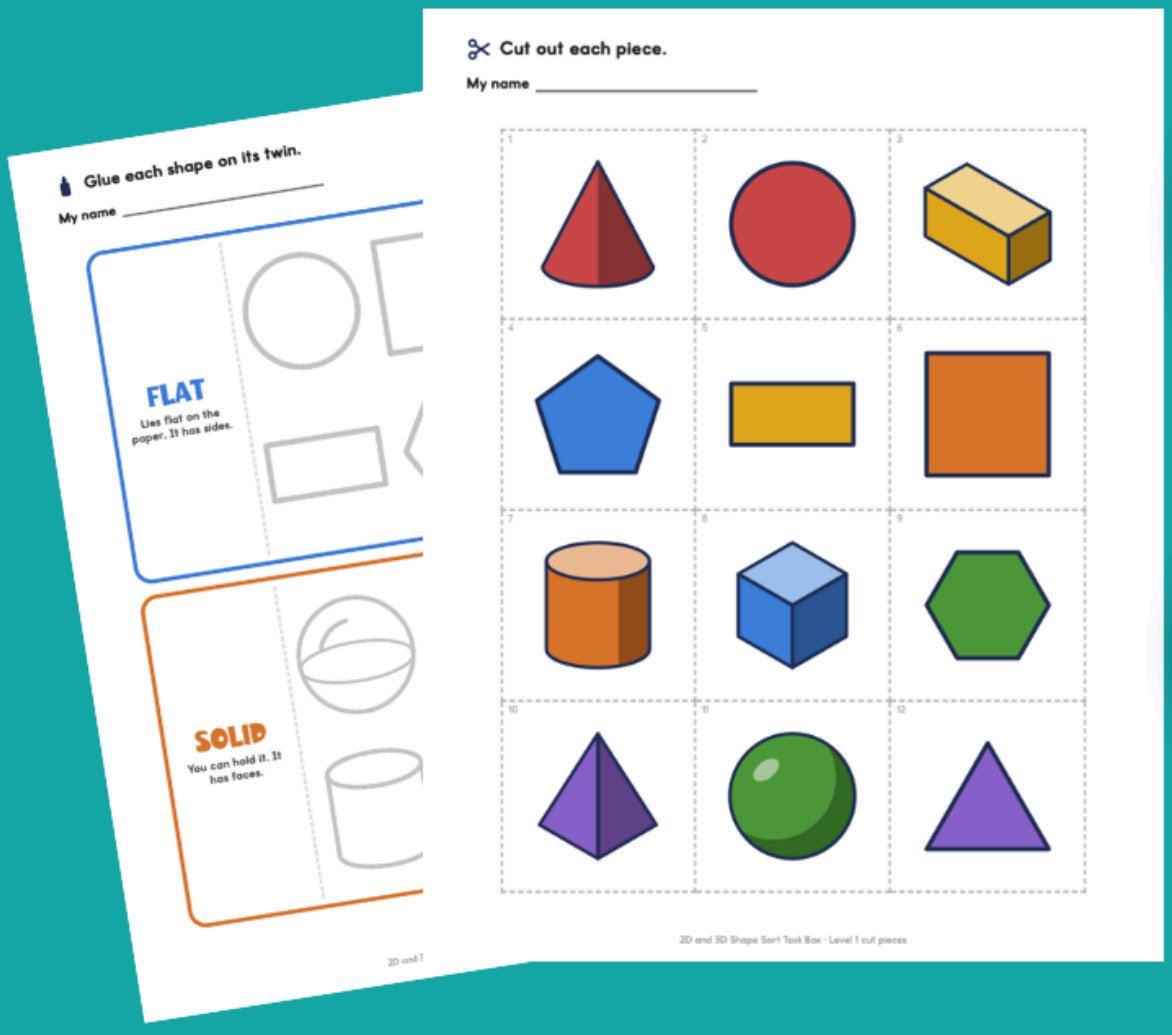
SHAPE SORT
FLAT OR SOLID?

2D & 3D Task Box



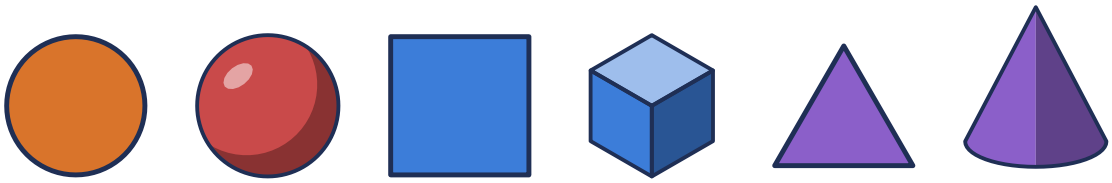
36 CUT PIECES

26 PAGES

Bright Path Sped

2D and 3D Shape Sort

A flat or solid cut and paste task box in 3 levels. Start here.



What's inside

- Level 1 (errorless): two lanes, flat and solid, with a faint twin printed for every shape. A cut page of 12 pieces
- Level 2: the same two lanes with no twins. The student decides flat or solid. A cut page of 12 pieces
- Level 3: decide flat or solid, glue it, then write its name from a word bank. A cut page of 12 pieces (36 pieces to cut in all)
- Extension: count the flat faces on 6 solids, count the straight sides on 6 flat shapes
- Faces, Edges, Corners: a labeled cube and a count table for 6 solids. Shape Words at Home: a word list and a record page
- Level 2 also as an ink-saver mat and cut page, plus flat and solid words
- Answer key, data sheet, filled example, progress roll-up, helper card, note for home and a binder set

The three levels

- **Level 1, errorless.** Every shape has a faint twin already printed in its lane. The student matches each piece to its twin, and sees flat shapes on one side and solids on the other.
- **Level 2, flat or solid.** No twins. A short words cue sits in each lane. Pieces come turned and in different sizes: a triangle on its side is still flat, a low pyramid is still a solid.
- **Level 3, name it.** The same two lanes, with a glue box and a writing line for every piece and a word bank in each lane.

Three steps

- 1. Print one mat and its cut page for each student.
- 2. The student cuts out the pieces and glues each one in a lane.
- 3. Check with the answer key, mark the data sheet, and move up or back a level when you decide.

The pieces sit edge to edge in a grid, so cutting is straight lines only. Set a real block, ball and can beside the page so the student can feel flat versus solid. This is a hands-on sort for the table, not a scored probe.

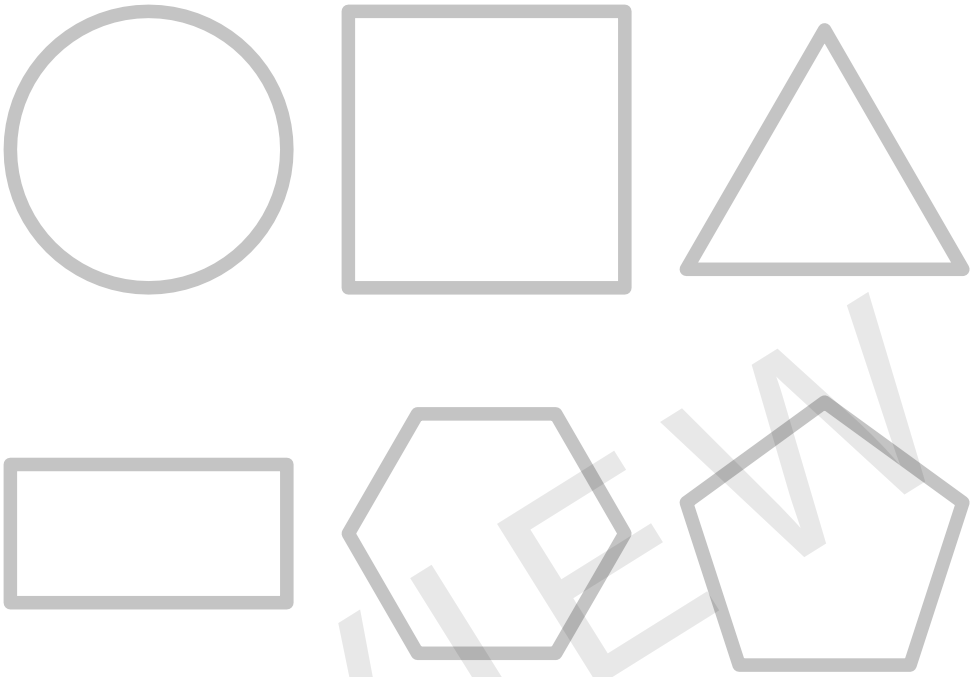
PREVIEW

Glue each shape on its twin.

My name _____

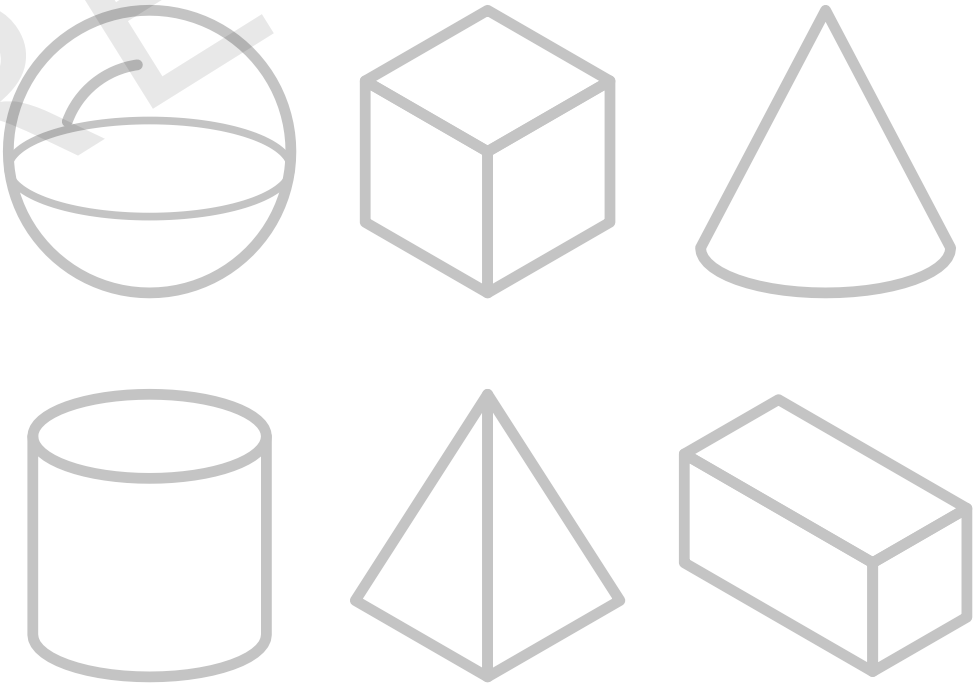
FLAT

Lies flat on the paper. It has sides.



SOLID

You can hold it. It has faces.



PREVIEW

Is it flat or solid? Glue it in its lane.

My name _____

FLAT

Lies flat on the paper. It has sides.

SOLID

You can hold it. It has faces.

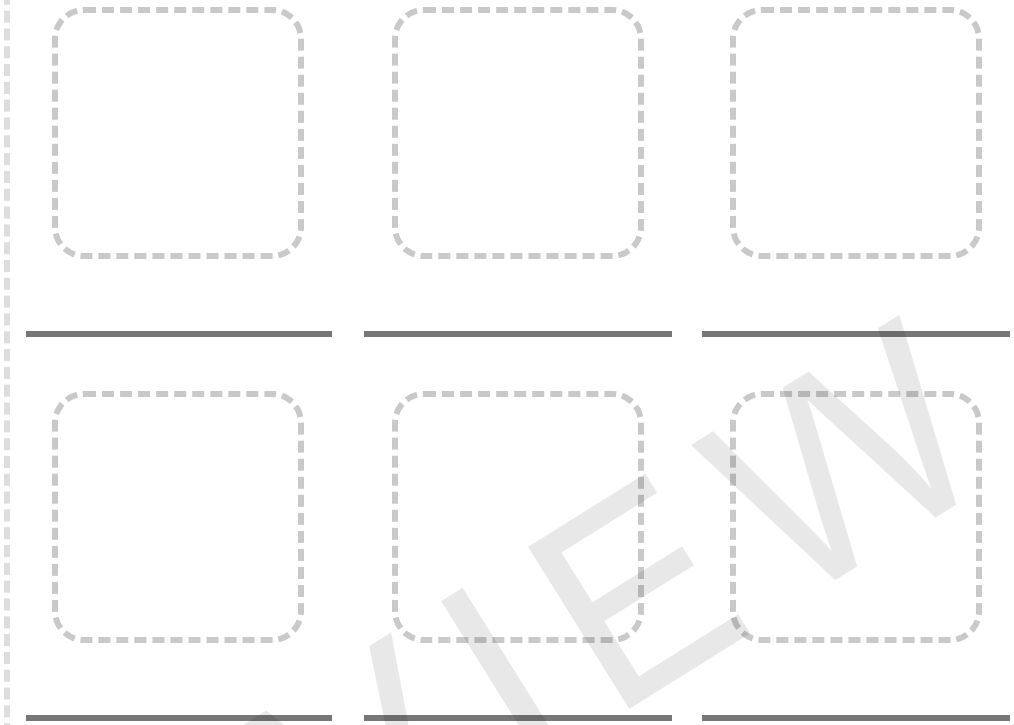
PREVIEW

Flat or solid? Glue it. Write its name.

My name _____

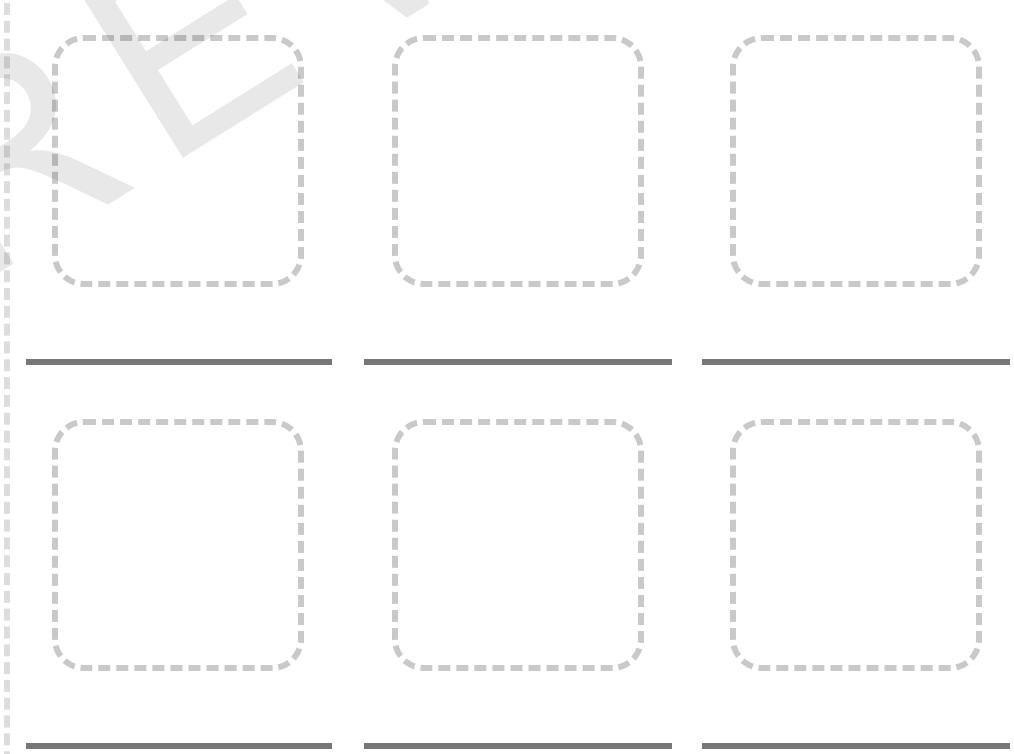
FLAT

circle, hexagon, pentagon, rectangle, square, triangle



SOLID

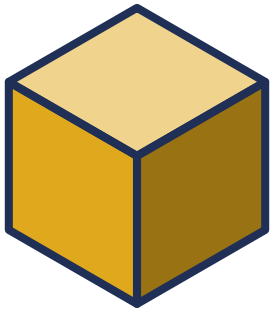
cone, cube, cylinder, rectangular prism, pyramid, sphere



PREVIEW

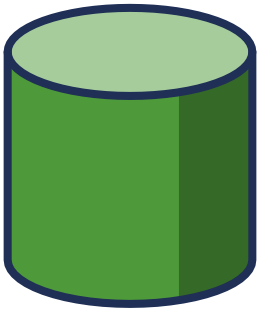
Touch each flat face. Write how many.

My name _____



cube

flat faces



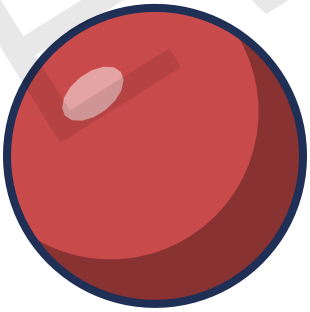
cylinder

flat faces



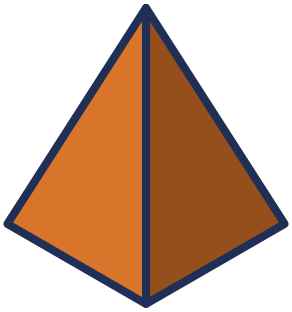
cone

flat faces



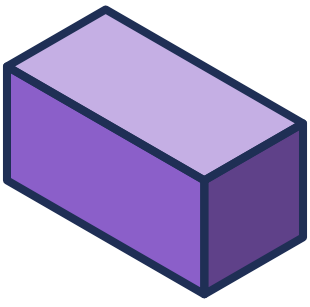
sphere

flat faces



pyramid

flat faces



rectangular prism

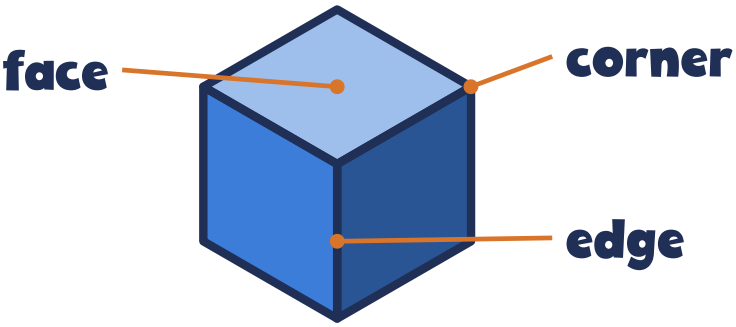
flat faces

PREVIEW

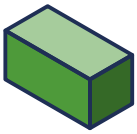
Preview · Bright Path Sped

Count the faces, edges and corners.

My name _____



A face is flat. An edge is where two faces meet. A corner is where edges meet.

Solid	faces	edges	corners
 cube			
 rectangular prism			
 square pyramid			
 cone			
 cylinder			
 sphere			

Corners are also called vertices. A curved surface is not a flat face, so do not count it. A cylinder has a flat top and a flat bottom.

PREVIEW

Preview · Bright Path Sped

Is it flat or solid? Glue it in its lane.

My name _____

FLAT

Lies flat on the paper. It has sides.

SOLID

You can hold it. It has faces.

PREVIEW

Preview - Bright Path Sped

Answer Key

Pieces are numbered on each cut page. Each answer is the lane (flat or solid) and the name.

Level 1, 1 to 6	1 solid cone	2 flat circle	3 solid rectangular prism	4 flat pentagon	5 flat rectangle	6 flat square
Level 1, 7 to 12	7 solid cylinder	8 solid cube	9 flat hexagon	10 solid pyramid	11 solid sphere	12 flat triangle
Level 2, 1 to 6	1 solid sphere	2 solid cone	3 flat rectangle	4 flat square	5 solid cylinder	6 flat circle
Level 2, 7 to 12	7 solid pyramid	8 solid rectangular prism	9 flat triangle	10 solid cube	11 flat hexagon	12 flat triangle
Level 3, 1 to 6	1 solid cube	2 solid sphere	3 solid cone	4 flat pentagon	5 solid cylinder	6 flat rectangle
Level 3, 7 to 12	7 flat hexagon	8 flat circle	9 flat square	10 solid pyramid	11 solid rectangular prism	12 flat triangle

Faces page (flat faces)

cube 6; cylinder 2; cone 1; sphere 0; pyramid 5; rectangular prism 6.

Sides page (straight sides)

circle 0; triangle 3; square 4; pentagon 5; rectangle 4; hexagon 6.

Faces, Edges, Corners page (faces, edges, corners)

cube 6, 12, 8; rectangular prism 6, 12, 8; square pyramid 5, 8, 5; cone 1, 1, 1; cylinder 2, 2, 0; sphere 0, 0, 0.

Spheres have no flat face. Cylinders have two flat bases and a curved surface. A rectangular prism is also called a cuboid.

The cone has one flat face (its circle). The circle has no straight side. A turned or smaller piece keeps its name and lane. Level 3 names are the same six flat names and six solid names on every lane.

If your math program uses a different word or counts differently, write your own answer here:

_____

PREVIEW

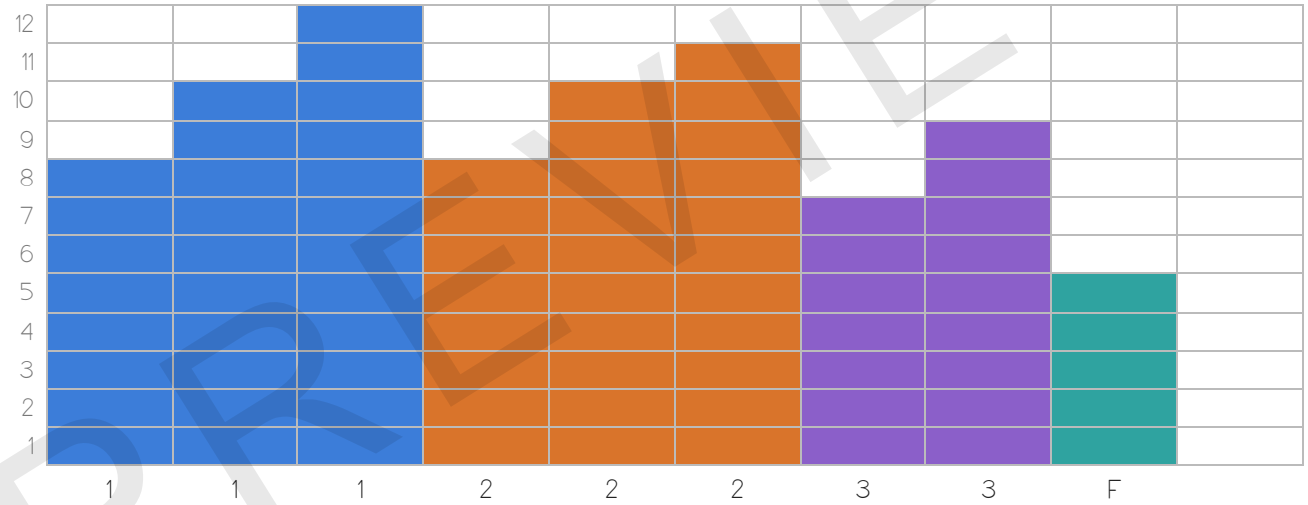
Preview · Bright Path Sped

Filled Example

Invented example. Sam is not a real student; these numbers are made up.

Date	Level	Correct	Notes
Oct 6	1	8 of 12	needed a reminder to look at the twin
Oct 8	1	10 of 12	laid pieces on the twins first
Oct 13	1	12 of 12	all 12 on the first try
Oct 15	2	8 of 12	circle and sphere swapped at first
Oct 20	2	10 of 12	said flat or solid out loud
Oct 22	2	11 of 12	one self-correction
Oct 27	3	7 of 12	needed the word bank for hexagon
Oct 29	3	9 of 12	wrote 9 names, 3 with help
Nov 3	F	5 of 6	faces page, touched each face

The same scores on the roll-up chart



Each column is one session; the label under it is the level (F is the faces page). A filled square is one correct answer.

- Level 1: first score 8, best score 12 out of 12
- Level 2: first score 8, best score 11 out of 12
- Level 3: first score 7, best score 9 out of 12
- Faces page: first score 5, best score 5 out of 6

PREVIEW

Preview : Bright Path Sped

Helper Card

For a paraprofessional, a sub or a volunteer running this task box

Before you start

- Student has a mat, the matching cut page, scissors and a glue stick.
- The level (1, 2 or 3) is in the small line at the bottom of each page. Use the level the teacher wrote below.
- Answer key: next to this card. Keep it out of the student's sight.

Run it

- Say: "Look at the shape. Could you hold it, or does it lie flat?" On Level 1 say: "Find its twin." On Level 3 say: "Now write its name."
- Let the student cut, sort and glue. Wait before you help.
- When all pieces are glued, check with the key. Point to any that moved, and let the student fix it.
- Mark the data sheet: date, level, number correct.

Talk about it

- A ball is a sphere. It has one curved surface, so it rolls.
- A cube has straight edges and corner points. It stacks and slides.
- A cone has one flat base and a pointy apex. It rolls in a circle.
- A cylinder has a curved side and flat ends. It rolls on its side and stacks on its end.
- Ask: "Which one rolls and which one stacks? What can you feel with your fingers?"

Write in

Level for today: _____ Prompts to use if the student is stuck (the teacher fills this in):

_____

If something is not working, tell the teacher. Who to tell: _____

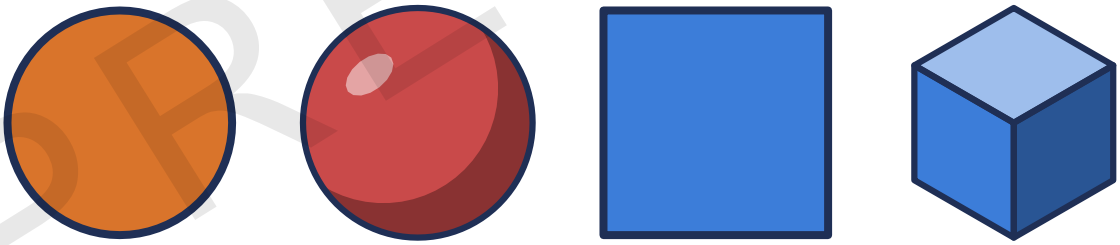
PREVIEW

Preview · Bright Path Sped

Teacher prep: slide into the binder cover.

2D and 3D Shape Sort

Task Box



PREVIEW

Name _____ Room _____ Year _____

Preview · Bright Path Sped

Teacher prep: cut out the divider tabs.

Start Here	Words	Level 1
Level 2	Level 3	Faces and sides
Answer key	Data	Roll-up
Helper card	Home note	My own tab _____

PREVIEW