

FIRST GRADE MATH



SHAPES & FRACTIONS

**KEEP SCROLLING TO
TAKE A LOOK INSIDE
THIS RESOURCE!**

Why?

Lucky to Learn MATH

This is the hands-on, standards-aligned, collaborative, and engaging math resource you've been looking for!

This resource can be used as a supplement to any math program, or as a complete curriculum.

Includes: teaching slides, lesson plans, math chats, mini lessons, collaborations, worksheets, assessments, exit tickets, anchor charts, and more!

Is your current math curriculum dull and lifeless?

These units are engaging! They include themed lessons to pique student interest, while also ensuring they master the math standards.

1

2

3

Wanting your students to love math?

The math block routine will scaffold and guide students to gain deep levels of understanding, feel successful, and love math!

Looking for resources that are easy to prep?

The activities are low-prep or no-prep! The lesson plans include icons to help you choose which activities to use during the day, and teaching slides that guide you & your students through the lesson.



PERFECT FOR...

Math block



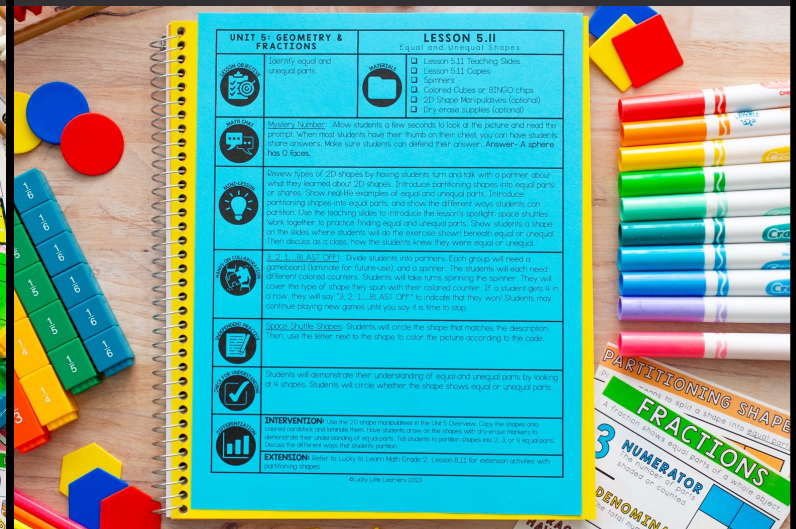
Supplemental practice



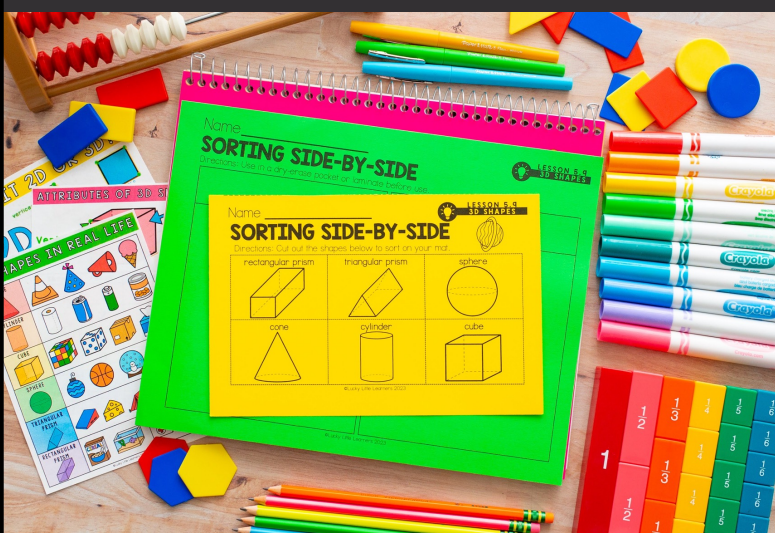
Hands-on learning



Easy lesson planning



Number talks



Science integration



UNIT MATERIALS



Anchor Charts

Binder cover

TYPES OF 2D SHAPE 3D SHAPES IN REAL LIFE

CIRCLE 0 	SQUARE 4 	CONE 					
TRIANGLE 3 	RECTANGLE 4 	CYLINDER 					
TRAPEZOID 4 	RHOMBUS 4 	CUBE 					
HEXAGON 6 	HALF-CIRCLE 1 	SPHERE 					
		TRIANGULAR PRISM 					
		RECTANGULAR PRISM 					

Lucky to Learn
MATH
UNIT 5
GEOMETRY
SHAPES AND FRACTIONS IN OUTER SPACE

Lucky to Learn
MATH
UNIT 5
GEOMETRY
SHAPES AND FRACTIONS IN OUTER SPACE

Pre & Post Assessment

Collaborative Games

Name _____ Date _____

GEOMETRY ASSESSMENT

Circle the shape name.

trapezoid
rhombus
triangle

Write the number of sides and vertices this shape has.

_____ sides
_____ vertices

Draw a rectangle.

Circle the defining attribute for this shape.

tall
4 sides
gray

Color the 3D shapes.

Circle the shape name.

cone
sphere
cylinder

Write the number of faces, edges, and vertices this shape has.

_____ faces
_____ edges
_____ vertices

Name _____

GEOMETRY PRE-ASSESSMENT

Write 1 defining attribute to describe this shape.

Color the shape that is cut into fourths.

Partition the rectangle into 2 equal shares.

Write the fraction for the shaded part of the shape.

Color each shape to show the fraction.

$\frac{1}{4}$ $\frac{1}{2}$ $\frac{4}{4}$

SPACESHIP SHAPE BUMP

Directions: Each player needs 10 connecting cubes of the same color, a game board, and 1 die to play. Put your game pieces on any space on the game board and take turns rolling a die to move that many spaces. Look at the shape that you land on and put a cube on the matching fraction in the center. If the other player already has a cube there, you can bump it off! If you already have a cube there, you can add a second cube and freeze the spot (it cannot be bumped). The first player to run out of cubes wins!

FRACTIONS ON THE MOON BUMP

Directions: Each player needs 10 connecting cubes of the same color, a game board, and 1 die to play. Put your game pieces on any space on the game board and take turns rolling a die to move that many spaces. Look at the shape that you land on and put a cube on the matching fraction in the center. If the other player already has a cube there, you can bump it off! If you already have a cube there, you can add a second cube and freeze the spot (it cannot be bumped). The first player to run out of cubes wins!

Craftivity

Independent Work

Directions: Write the shape name for each part of your astronaut in the spaces below. Fill in how many sides and vertices each shape has. Glue your astronaut to the top of the sheet.

MY SHAPE ASTRONAUT

Astronaut Part	Shape Name	Sides	Vertic
helmet			
body			
arms and legs			
gloves			
boots			
badge			
radios			
control unit			

Name _____

Name _____

SHAPE CONSTELLATIONS

Directions: Draw each shape in the space provided. Use a yellow marker or crayon to draw on the vertices. Write how many sides and vertices each shape has.

Draw a rectangle. _____ sides _____ vertices

Draw a triangle. _____ sides _____ vertices

Draw a trapezoid. _____ sides _____ vertices

Draw a circle. _____ sides _____ vertices

Draw a hexagon. _____ sides _____ vertices

Draw a square. _____ sides _____ vertices

Draw a half-circle. _____ sides _____ vertices

Draw a rhom. _____ sides _____ vertices

GEOMETRY & FRACTIONS

UNIT OVERVIEW

WEEK ONE

LESSON 5.1	I can identify 2D shapes based on given attributes.
LESSON 5.2	I can identify and describe 2D shapes.
LESSON 5.3	I can construct 2D shapes.
LESSON 5.4	I can classify and sort 2D shapes.
LESSON 5.5	I can identify and draw 2D shapes based on given attributes.

WEEK TWO

LESSON 5.6	I can identify 3D shapes based on given attributes.
LESSON 5.7	I can identify and describe 3D shapes.
LESSON 5.8	I can construct 3D shapes.
LESSON 5.9	I can classify and sort 3D shapes.
LESSON 5.10	I can identify 3D shapes based on given attributes.

WEEK THREE

LESSON 5.11	I can identify equal and unequal parts.
LESSON 5.12	I can identify fractions and partition shapes into halves.
LESSON 5.13	I can identify fractions and partition shapes into fourths/quarters.
LESSON 5.14	I can identify fractions and partition shapes into equal shares.
LESSON 5.15	I can identify 2D and 3D shapes. I can describe equal shares.

MATH UNIT ICONS



These icons are on each piece of the curriculum to help you stay organized and help students learn the routine!

UNIT 5: GEOMETRY & FRACTIONS

LESSON 5.1
Identify 2D Shapes

OBJECTIVE Identify 2D shapes based on given attributes

MATERIALS

- Lesson 5.1 Teaching Slides
- Lesson 5.1 Copies
- 2D Shapes (manipulatives or printed)
- Dry-Erase Supplies (optional)

MATH CHAT Mystery Number: Show students the Mystery Number slide. Students will use silent thinking time to figure out how many circles are shown. Discuss as a class and listen to various strategies that students used to figure out the answer. **Answer:** 14 circles.

MINI-LESSON Introduce 2D shapes to students using the teaching slides. Put students into groups and give each group 2D shapes (manipulatives or printed) for them to explore and talk about. Give each student a 2D Shapes in Space booklet (you can prep these beforehand or have students cut them and put them in order before you staple them together). Students will also need a pencil and crayons to complete this activity. Walk through each shape slide together and have students fill out the matching shape page in their booklet.

HANDS-ON COLLABORATION Spaceship Shape Bump: Print Each player needs 10 connect they will share 1 die. Players v board and take turns rolling a object they land on and put a other player already has a cube there, they can add a bumped). The first player to

INDEPENDENT PRACTICE Astronaut I Spy Challenge: S

CHECK FOR UNDERSTANDING Students will demonstrate ti

DIFFERENTIATION Intervention: Tell studen base of scrap paper. Discus also try out shape manipulative

EXTENSION Refer to Luck identifying 2D shapes.

LESSON 5.1 2D SHAPES

2D SHAPES IN SPACE

Name: _____

This is a circle.

- A circle has ____ sides.
- A circle has ____ vertices.

Trace the circle. Draw a circle. Draw a real-life object that is a circle.

I drew a _____

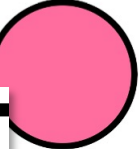


5.1 MINI-LESSON

LET'S LEARN!

This is a circle.

- A circle is round.
- A circle has 0 sides.
- A circle has 0 vertices.



A circle.

The button is a circle.

The cookie is a circle.

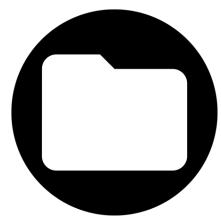
Do you think of something else that is a circle?



ICON KEY



OBJECTIVE



MATERIALS



MINI LESSON



MATH CHAT



HANDS-ON COLLABORATION



INDEPENDENT PRACTICE

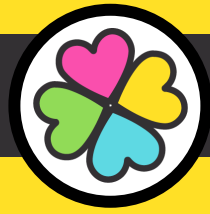


CHECK FOR UNDERSTANDING



DIFFERENTIATION

LESSON PLANS








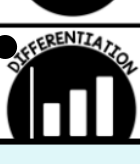


Clear lesson objective

Teaching slides included for each part of the lesson

List of materials

Math chat (number talk) in each lesson

UNIT 5: GEOMETRY & FRACTIONS		LESSON 5.6 3D Shapes Identification	
	Identify 3D shapes based on given attributes.		<input type="checkbox"/> Lesson 5.6 Teaching Slides <input type="checkbox"/> Lesson 5.6 Copies <input type="checkbox"/> Clipboards <input type="checkbox"/> Geometric Solid shapes (optional)
	Mystery Number: Allow students a few seconds to look at the picture and read the prompt. When most students have their thumb on their chest, you can have students share answers. Make sure students can defend their answer. Answer- 0 sides		
	Review types of 2D shapes by having students turn and show some real-life examples of 2D shapes. Have students share and review some examples together. Introduce a 3D shape. Introduce shape attributes using terms like faces, edges, and vertices. Use the slides to introduce each 3D shape, show some real-life examples, and talk about the shape's attributes. At the end, have students turn and tell a friend something they learned about 3D shapes today.		
	Mercury Mysteries: Print both pages in color or black/white. Cut apart and tape around the room where students can easily see the cards. Students will walk the room with a partner and clipboard to find each card. They will look at the card together and color the matching 3D shape on their recording sheet. Note: Some shapes will be used more than once! For example, there are two letter R cards, but both cards will show the same 3D shape.		
	Shape Shades of Venus: Students will color the 2D shapes yellow and color the 3D shapes orange.		
	Students will demonstrate their understanding of 3D shapes by naming four 3D shapes.		
	INTERVENTION: In a small group, show students a geometric solid shape. Have students state the name of each shape and list some real-life examples. EXTENSION: Refer to Lucky to Learn Math Grade 2, Lesson 8.6 for extension activities with 3D		

Skill-focused mini lesson

Collaborative hands-on tasks

Independent practice

Quick assessments

Materials have matching icons for routine & easy organization

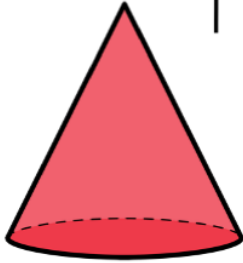
Differentiation ideas



5.6 MINI-LESSON

LET'S LEARN!

This is a **cone**.



- Cones have 1 face.
- Cones have 2 vertices.
- Cones have 0 edges.



a traffic cone



an ice-cream cone



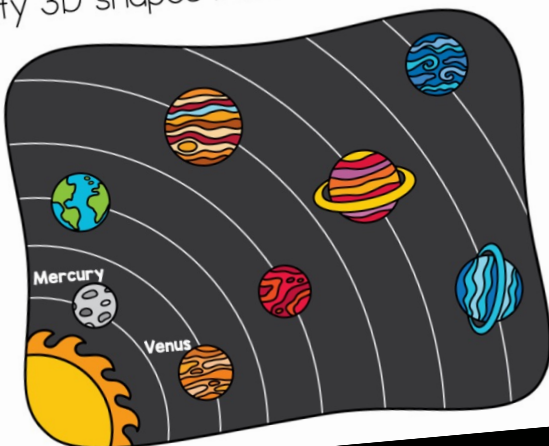
a party hat

Can you think of something else that is a **cone**?



I WILL BE ABLE TO...

Identify 3D shapes based on given attributes.



Guides students through each lesson with an easy-to-follow, attractive, kid-friendly format & theme

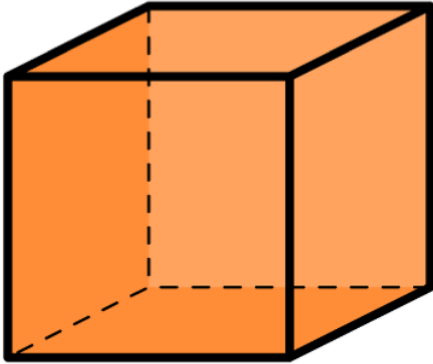
MINI LESSONS



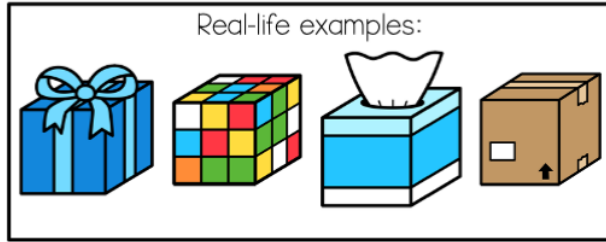
5.7 MINI-LESSON

LET'S LEARN!

cube



Real-life examples:



number of
faces

6

number of
edges

12

number of
vertices

8



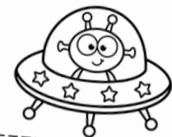
Name: _____

LESSON 5.7
3D SHAPES

EXPLORING

COOL 3D

ATTRIBUTES



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This is a _____

Glue the 3D shape.

Draw a real-life example.

I drew a _____

number of faces

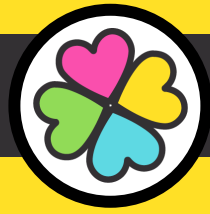
number of edges

number of vertices

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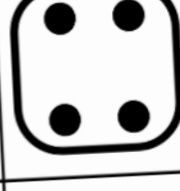


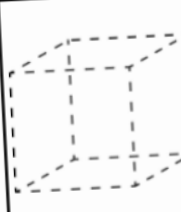


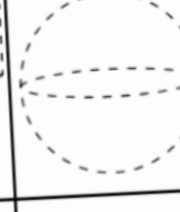
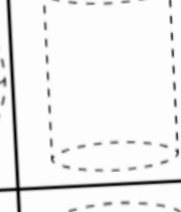
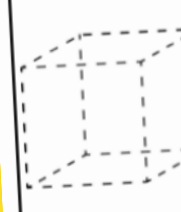
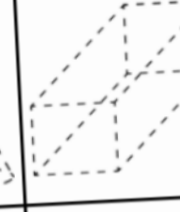

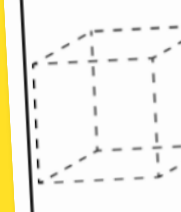



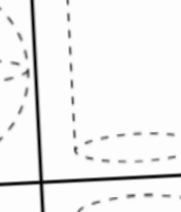
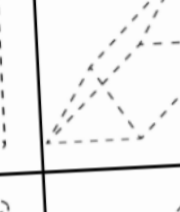
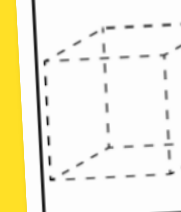
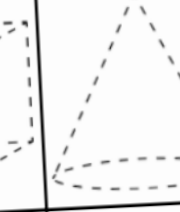

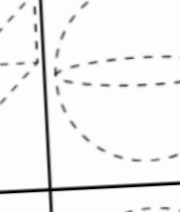


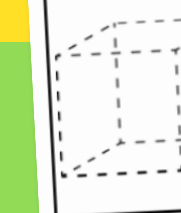



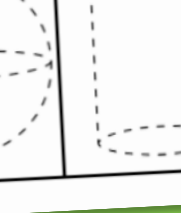

Provides
instruction &
scaffolded
practice with
the skill.

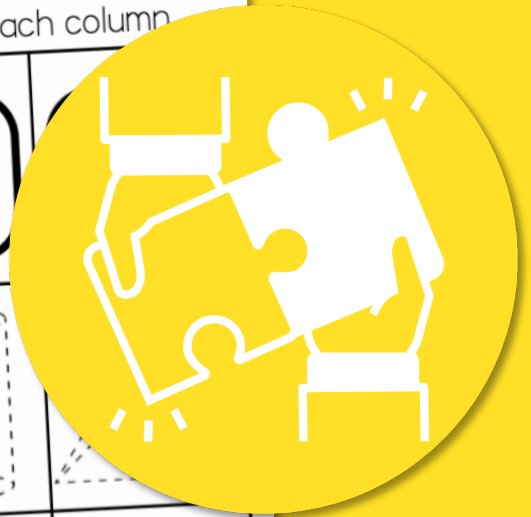
COLLABORATION



JUPITER'S TRACE RACE LESSON 5.8 3D SHAPES

Directions: Roll a die. Practice drawing the 3D shape by tracing over the shape. Continue rolling until you have traced all the shapes in each column.



Hands-on activities for students to practice the skill in fun ways with partners and groups

INDEPENDENT WORK



Name _____



LESSON 5.9
3D SHAPES

NEPTUNE'S 3D MAZE

Directions: Help Sam find his way to his telescope, so he can see Neptune! Find your way through the maze, by coloring each 3D shape.



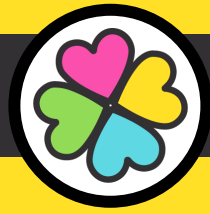
S T A R T					
				E N D	

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Worksheets that align with the lesson theme provide opportunities for student independence and mastery.



CHECK UNDERSTANDING

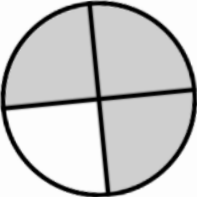

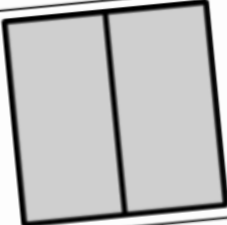







LESSON 5.14
FRACTIONS

Name _____

CHECK FOR UNDERSTANDING

Directions: Write the fraction for the shaded part of each shape below.

____ / 4

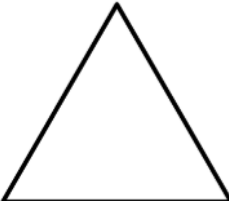
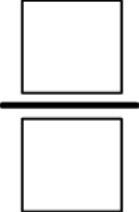
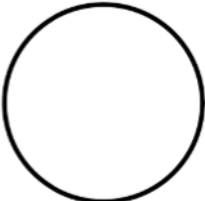
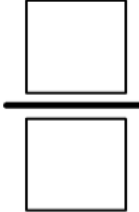

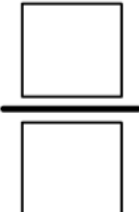
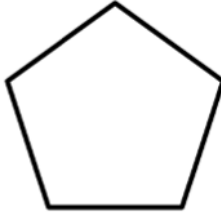
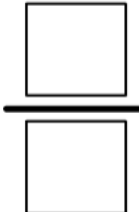


LESSON 5.14
FRACTIONS

Name _____

CHECK FOR UNDERSTANDING

Directions: Partition each shape into halves. Color one part and write the fraction that is shaded.

____ / 4

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Half-page exit tickets are an easy check for understanding. This shows you an immediate picture of how students are doing. No more huge stacks of grading to sort through!

EXAMPLE MATERIALS



UNIT 5: GEOMETRY & FRACTIONS

LESSON 5.11
Equal and Unequal Shapes

Identify equal and unequal parts.

Mystery Number: Allow students a few seconds to look at the picture and read the prompt. When most students have their thumb on their chest, you can have students share answers. Make sure students can defend their answer. **Answer-** A sphere has 0 faces.

Review types of 2D shapes by having students turn and talk with a partner about what they learned about 2D shapes. Introduce partitioning shapes into equal parts or shares. Show real-life examples of equal and unequal parts. Introduce partitioning shapes into equal parts, and show the different ways students can partition. Use the teaching slides to introduce the lesson's spotlight: space shuttles. Work together to practice finding equal and unequal parts. Show students a shape on the slides where students will do the exercise shown beneath equal or unequal. Then, discuss as a class how the students knew they were equal or unequal.

3, 2, 1...BLAST OFF! Divide students into partners. Each group will need a gameboard (minute for future use), and a spinner. The students will each need different colored counters. Students will take turns spinning the spinner. They will cover the type of shape they spin with their colored counter. If a student gets 4 in a row, they will say "3, 2, 1...BLAST OFF" to indicate that they won! Students may continue playing new games until you say it is time to stop.

Space Shuttle Shapes: Students will circle the shape that matches the description. Then, use the letter next to the shape to color the picture according to the code.

Students will demonstrate their understanding of equal and unequal parts by looking at 4 shapes. Students will circle whether the shape shows equal or unequal parts.

INTERVENTION: Use the 2D shape manipulatives in the Unit 5 Overview. Copy the shapes onto cardstock and laminate them. Have students draw on the shapes with dry-erase markers to demonstrate their understanding of equal parts. Tell students to partition shapes into 2, 3, or 4 equal parts. Discuss the different ways that students partition.

EXTENSION: Refer to Lucky to Learn Math Grade 2, Lesson 8.11 for extension activities with partitioning shapes.

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3, 2, 1... BLAST OFF!

Directions: Take turns spinning the spinner. Cover the type of shape you spin with your colored counter. If you get 4 in a row, say "3, 2, 1...BLAST OFF" to indicate that you won.

Player 1: _____
Player 2: _____

EQUAL PARTS
UNEQUAL PARTS

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Name _____

LESSON 5.11
EQUAL & UNEQUAL PARTS

SPACE SHUTTLE SHAPES

Directions: Circle the shape that matches the description. Then, use the letter next to the shape to color the picture according to the code.

A B E F I J

2 equal parts yellow 3 equal parts orange 4 equal parts black

C D G H K L

2 unequal parts pink 3 unequal parts purple 4 unequal parts blue

M N O P

2 equal parts red 4 unequal parts gray

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Name _____

LESSON 5.11
EQUAL & UNEQUAL PARTS

CHECK FOR UNDERSTANDING

Directions: Circle whether the shape shows equal or unequal parts.

/ 4

equal equal
unequal unequal

equal equal
unequal unequal

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Name _____

LESSON 5.11
EQUAL & UNEQUAL PARTS

CHECK FOR UNDERSTANDING

Directions: Circle whether the shape shows equal or unequal parts.

/ 4

equal equal
unequal unequal

equal equal
unequal unequal

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ATTRIBUTES OF 3D SHAPES

Vertices the corners where 3 edges meet

Face the flat surface of a solid

Edge a line where 2 faces meet

Shape	Faces	Vertices	Edges
CONE	1	1	0
CYLINDER	2	0	0
CUBE	6	8	12
SPHERE	0	0	0
TRIANGULAR PRISM	5	6	9
RECTANGULAR PRISM	6	8	12

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Name _____

LESSON 5.6
3D SHAPES

SHAPE SHADES OF VENUS

Directions: Color the 2D shapes yellow. Color the 3D shapes orange.

circle cone square rectangular prism

cube triangle sphere rectangle

trapezoid cylinder diamond

hexagon half-circle rectangular prism

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MATH CHAT EXPECTATIONS

- BE RESPECTFUL**
Treat everyone in our classroom with respect- including yourself. All answers are valid and we all learn from mistakes.
- THINKING TIME**
When a problem is shown, we won't shout out or talk about it yet. We will use silent thinking time to try and solve the problem on our own.
- TRY YOUR BEST**
Use quiet thinking time to try your best and solve the problem. Do not give up! Our goal is to learn and grow!
- STRATEGIES**
When you think of a way to solve the problem, give a thumbs-up at your chest. Keep thinking of new strategies and raise more fingers for more strategies.
- LET'S CHAT!**
Once we have had plenty of silent thinking time, we will share our strategies with the class and justify our thinking. All answers are shared and talked about because we all learn from mistakes (even teachers!).

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MATH CHAT HAND SIGNALS

	I am thinking.
	I have an answer.
	I have more than one strategy.
	I agree!
	I have a different answer or strategy.

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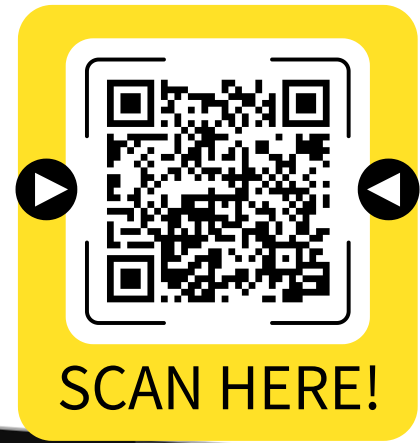
MATH CHAT CATEGORIES

MYSTERY NUMBER	Clues will be given and students have to figure out the number that is missing.
TRUE OR FALSE	Students will decide if the equation given is true or false.
WORD PROBLEM	Students will work out word problems.
THINK ABOUT IT	Students will solve thought-provoking math problems.
MATH IS FUN	Students will solve challenging math problems in a fun way!

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Weekly Email FREEBIES!

Grab a cup of coffee and take a few minutes with **our weekly newsletter** created just for teachers like you.



About Lucky Little Learners



Angie Olson has many years of classroom experience teaching grades kindergarten, first, and second grade. She earned her master's degree in mathematics and has presented for a variety of conferences at the national, state, and local levels. Over the years, Angie has employed teachers to help with Lucky Little Learners. She is proud of her talented team who strives to support the teaching community with her. Lucky Little Learners has created over 25,000 resources that are available in the All Access membership. Lucky Little Learners is also a top seller on Teachers Pay Teachers.