Lesson Plans

These lesson plans were designed to be used over 10 days. They cover geometry concepts for 2D shapes and 3D solids. They are to be used as a guide when planning instruction. Depending on your curriculum pacing guide, you may have more or less days to teach this concept.

Each day includes a warm-up activity (5 minutes), whole group lesson (10-20 minutes), independent practice activity (10 minutes) and a small group activity (15 minutes). Times can be adjusted based on your schedule. You can read more about how to set up your math block on my blog. (See Getting Started with Guided Math Page).

2D Shape Attributes **LESSON PLAN : DAY 1**

OBJECTIVES	VOCABULARY	MATERIALS
• Students will identify and create two-dimensional shapes based on given attributes including number of sides and vertices.	• 2D Shape • Attribute • Sides • Vertices	• Daily Word Problem • 2D Shape Anchor Chart and Student Chart • 2D Shape Flip Flap Journal Activity • 2D Shape Sticky Note Sort

WARM UP (5 MINUTES OR LESS)

Skip Counting: Do toe touches as you count by 5's to 200. Repeat with 2's.

WHOLE GROUP LESSON (20 MINUTES)

Create a 2D shape anchor chart. Give each student a copy of the student anchor chart. Introduce and discuss 2D shapes. Explain that 2D shapes are flat and discuss what attributes are. The sides are the straight lines, and the vertices are the points. Add each shape to the anchor chart. As a class, label the sides with lines and the vertices with dots, then write the the shape attributes. Discuss examples of each type of shape and add one to your chart. Repeat until all shapes have been added to your chart.

Complete daily word problem in student journal.

INDEPENDENT PRACTICE (10 MINUTES)

Each student will need a copy of the 2D shapes flip flap activity. Have students cut on the dotted lines. Glue tabs into journal. Under each flap, have them write the number of sides and vertices each shape has.

SMALL GROUP LESSON (15 MINUTES PER GROUP)

Print the 2D shape sticky notes prior to the lesson. Create a t-chart and label it with different attributes (curved sides and straight sides, 3 vertices and 4 vertices, etc.,) Give each student a sticky note and a copy of the Comparing Shapes recording sheet (they could also do this in a math journal or on white boards). Have students sort their sticky note onto the t-chart. When they add their sticky note, encourage them to verbally explain how they knew where to place it. Then they can draw a matching shape on their recording sheet. Repeat until all the cards have been sorted.

(You can also print this activity on regular paper and use it for math stations).

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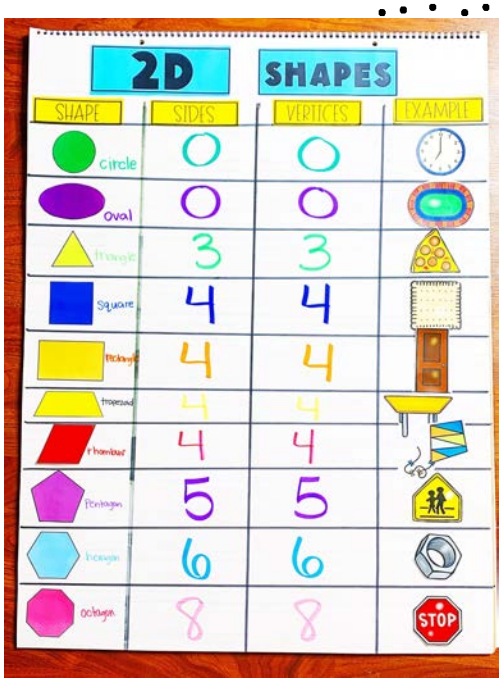
These lesson plans are filled with hands on engagement and interactive notebook activities. Games and task cards are included and can be used all year long. You will not find lots of worksheets in this unit.

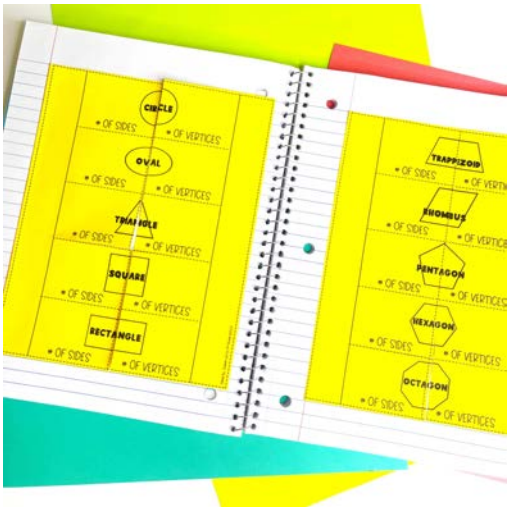
Day 1

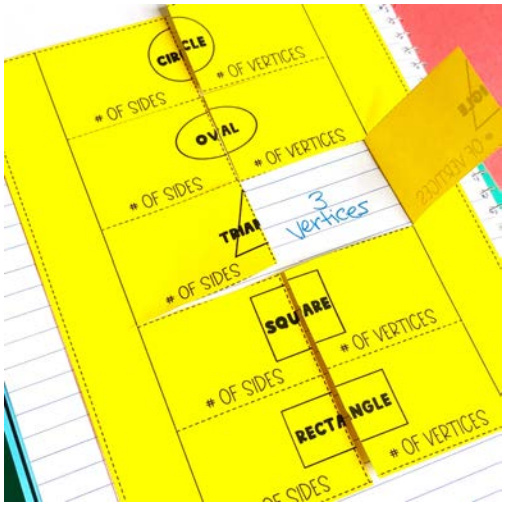
Whole Group

Introduce 2D shapes by creating a whole group anchor chart. Students will also create their own chart in their math journal.



Independent Practice

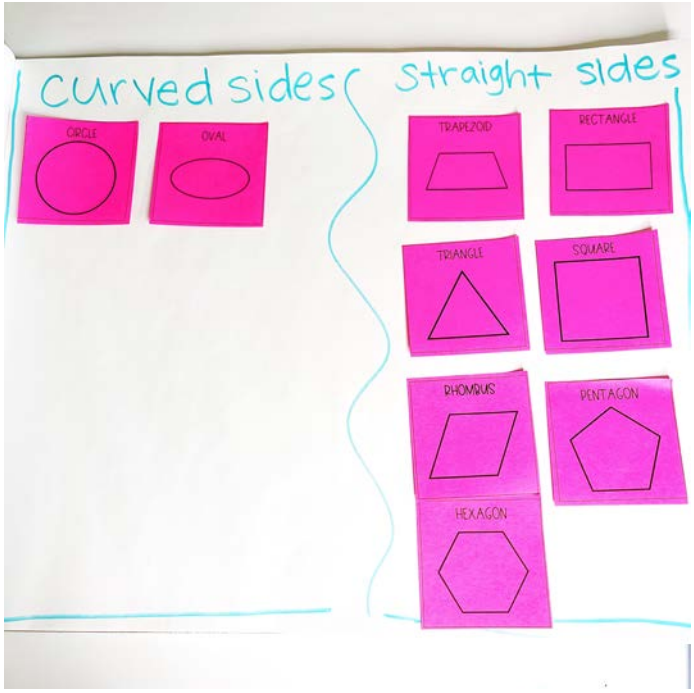




Students will complete the journal flip flaps for 2D shapes attributes.

Small Group

Students will identify and sort shapes based on different attributes.



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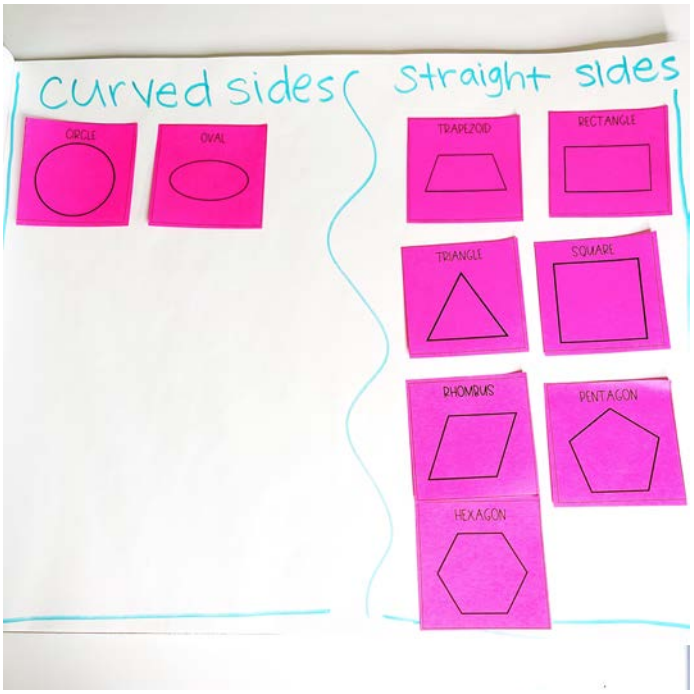
Day 2

Whole Group

Using pipe cleaners and pom pom balls, students will build 2D shapes and identify the attributes.

Independent Practice

In their math journal, students will play a game of memory and then match and glue the pieces.



Small Group

Students will identify and sort shapes based on different attributes.

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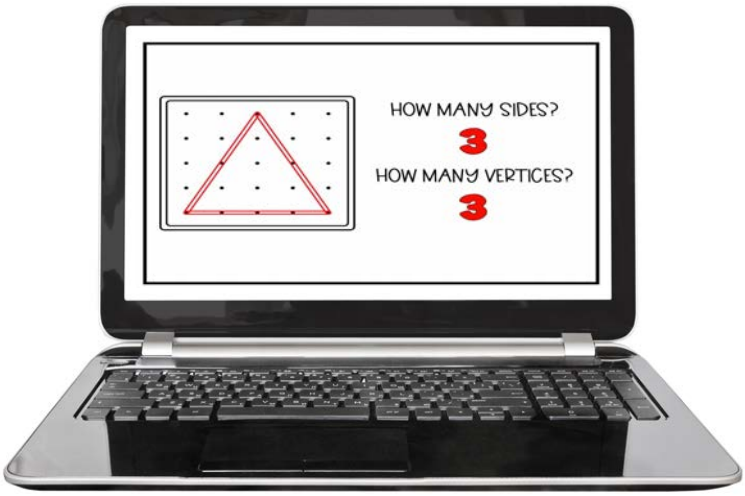
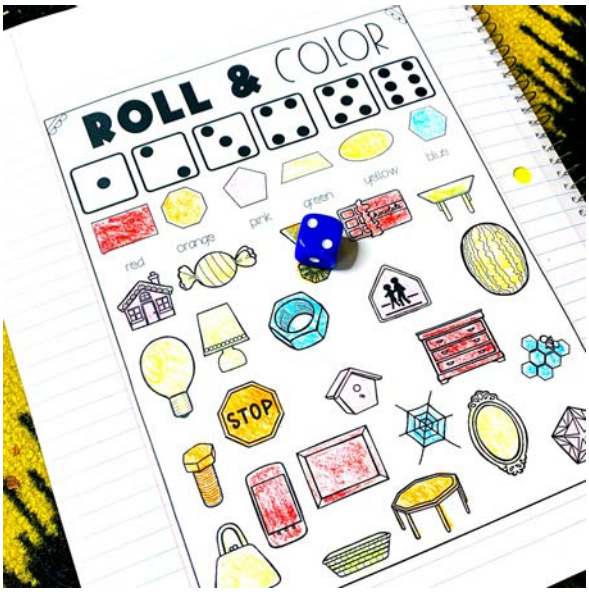
Day 3

Whole Group

Using the Geoboard Shapes PowerPoint, students will create 2D shapes and identify their attributes.



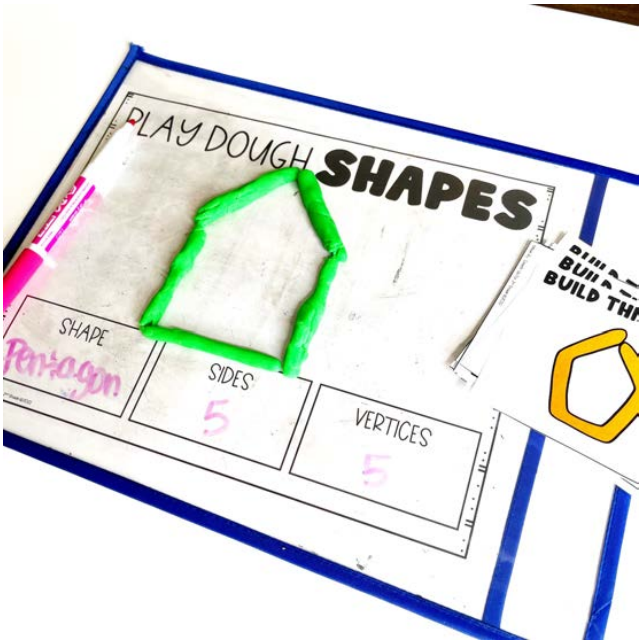
Independent Practice



Students will play Roll and Color in their math journal to identify 2D shapes.

Small Group

Students will use play-dough to build 2D shapes and identify their attributes.



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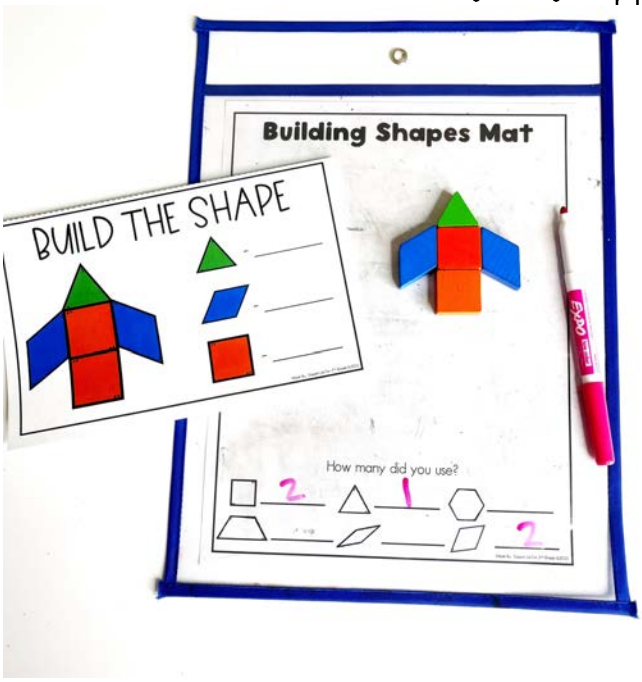
Day 4

Whole Group

Introduce composing shapes.

Students will use pattern blocks to explore composing shapes.

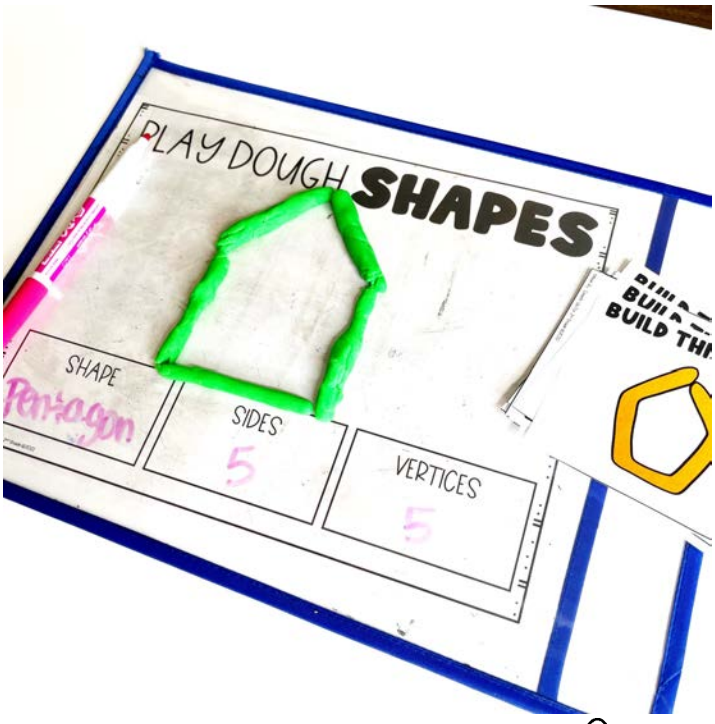


Independent Practice

Students will explore various ways to make a hexagon using pattern blocks.

Small Group

Students will use play-dough to build 2D shapes and identify their attributes.



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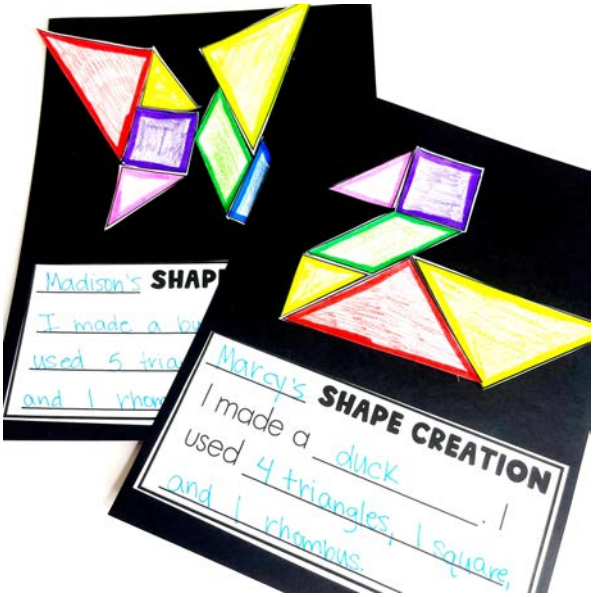
Day 5

Whole Group

Students will work together to solve shape riddles based on the given attributes.

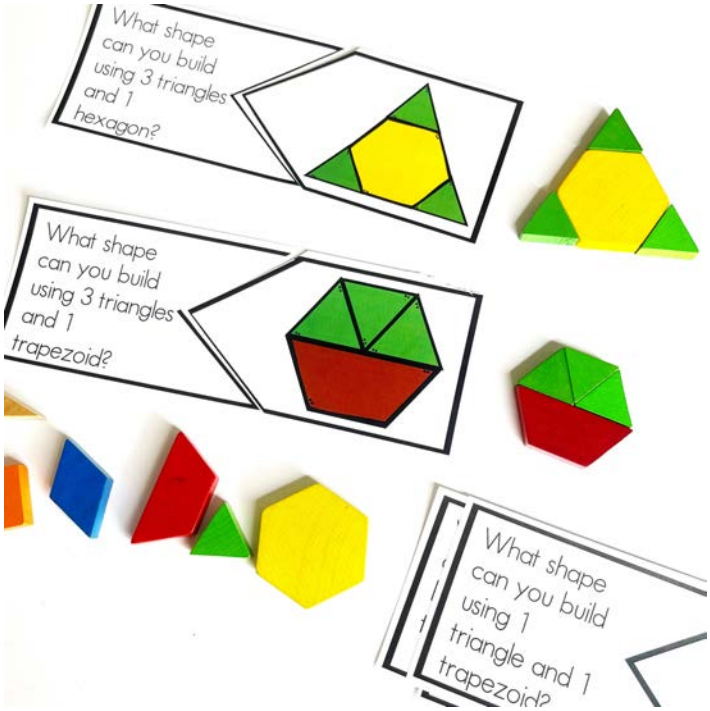
Independent Practice

Students will create a shape creation using tangrams and then describe its attributes.



Small Group

Students will practice composing 2D shapes using pattern block puzzles.



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Day 6

Whole Group

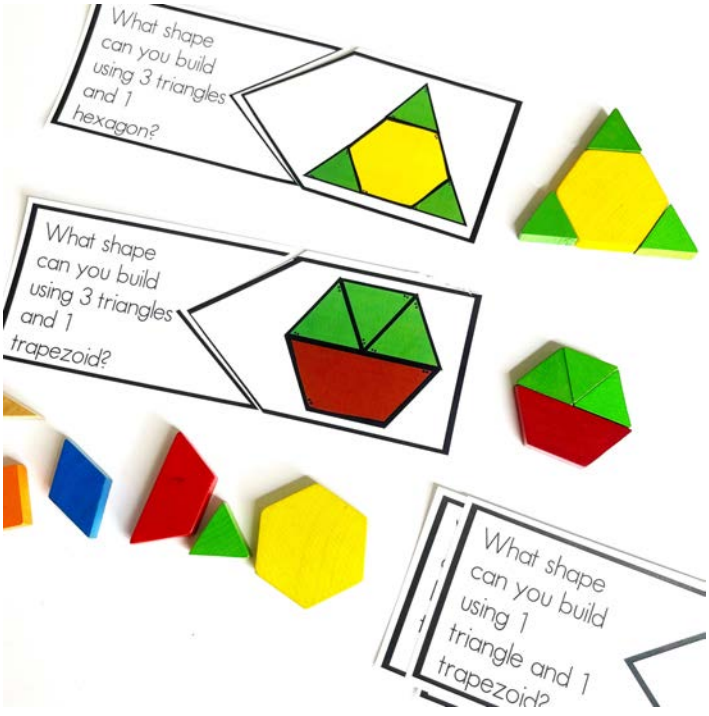
As a class, you will create a 3D Shape anchor chart. Students will create a mini version to keep in their math journal.

Small Group

Students will practice composing 2D shapes using pattern block puzzles.

Independent Practice

Students will complete the journal flip flaps for 3D shapes attributes.



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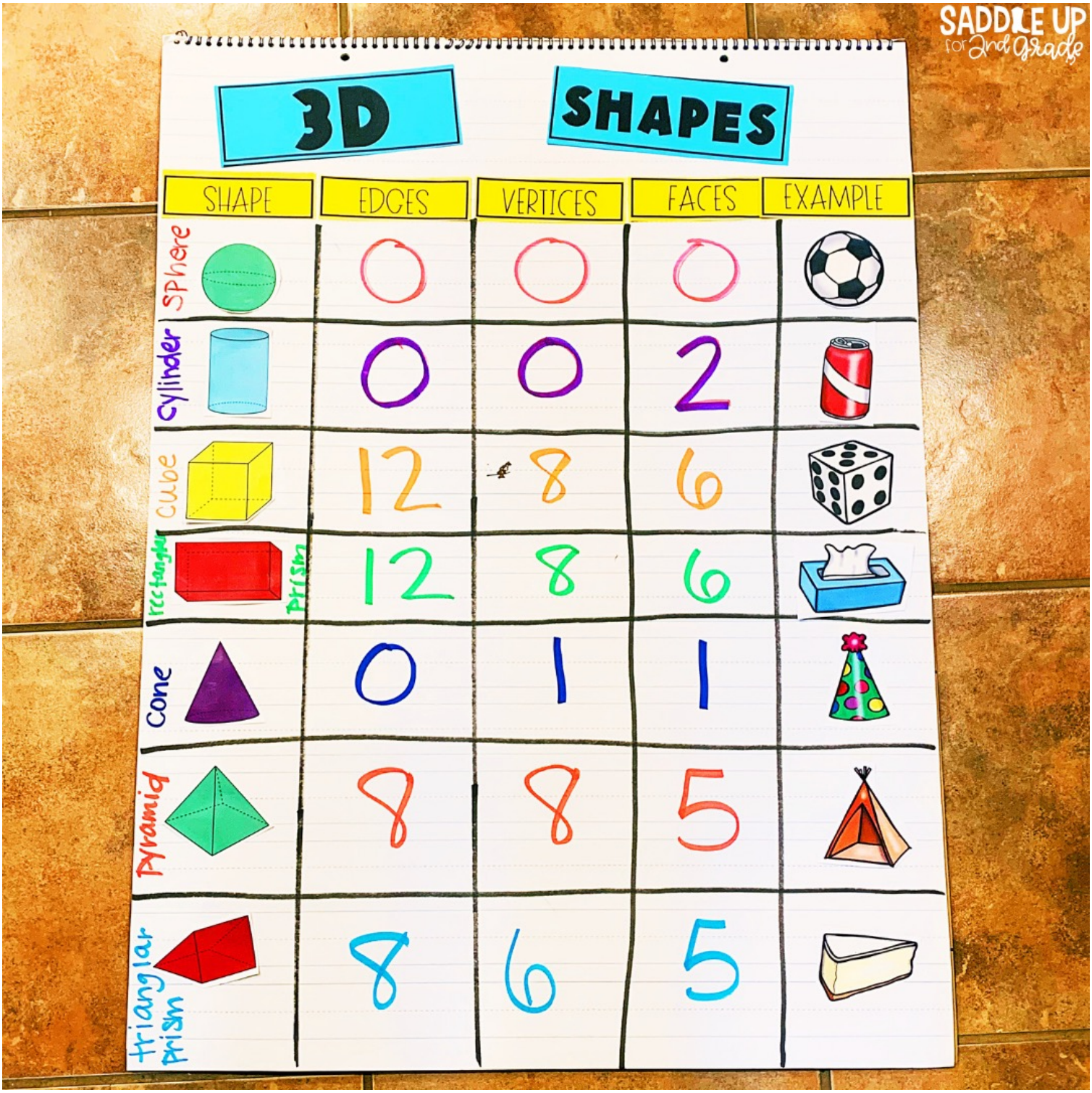
3-D Shapes Anchor Chart

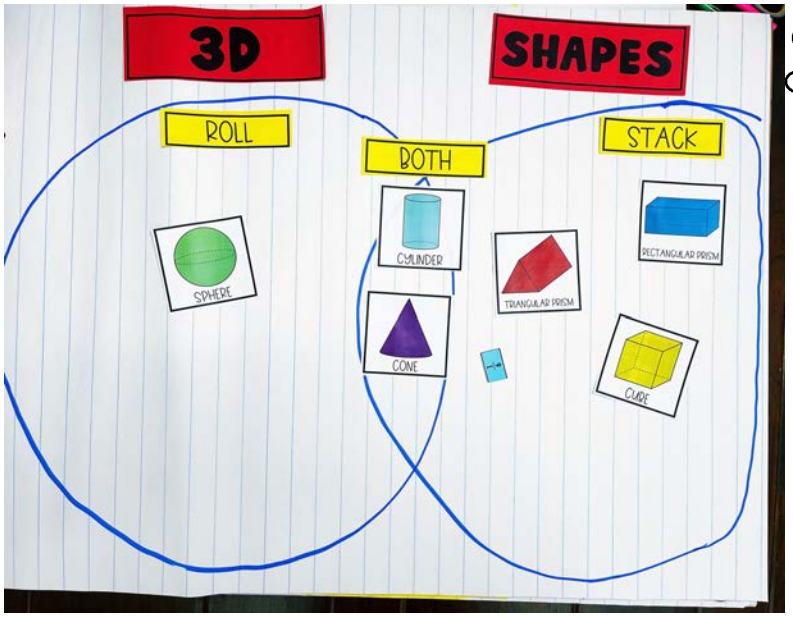
This is an example of the anchor chart that you will create with your students.

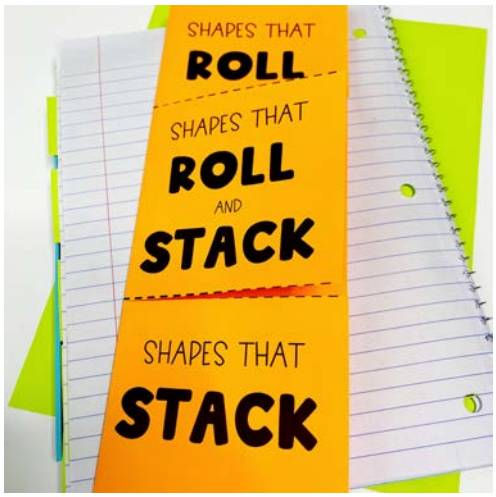


Day 1

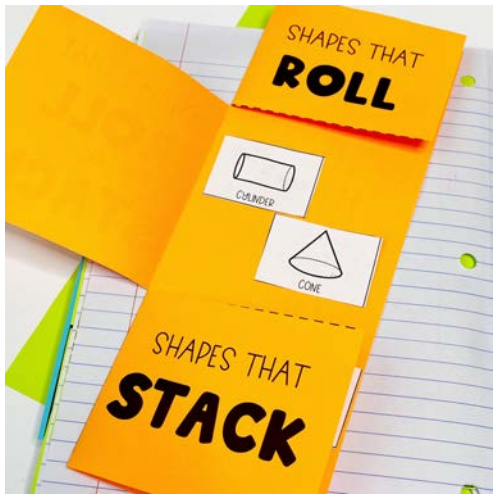
Whole Group

As a class, you will create a 3D Shapes Venn Diagram. Students will create a mini version in their journal.





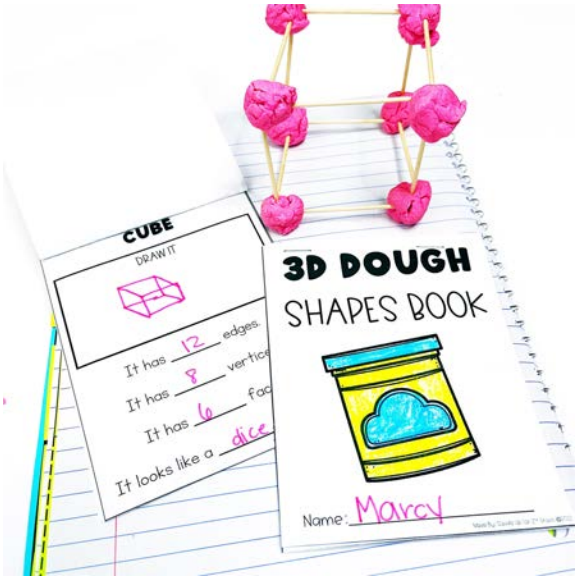
Independent Practice



Students will complete the journal flip flaps for 3D shapes attributes.

Small Group

Students will compose 3D shapes using playdough and toothpicks. Then they will describe their attributes.



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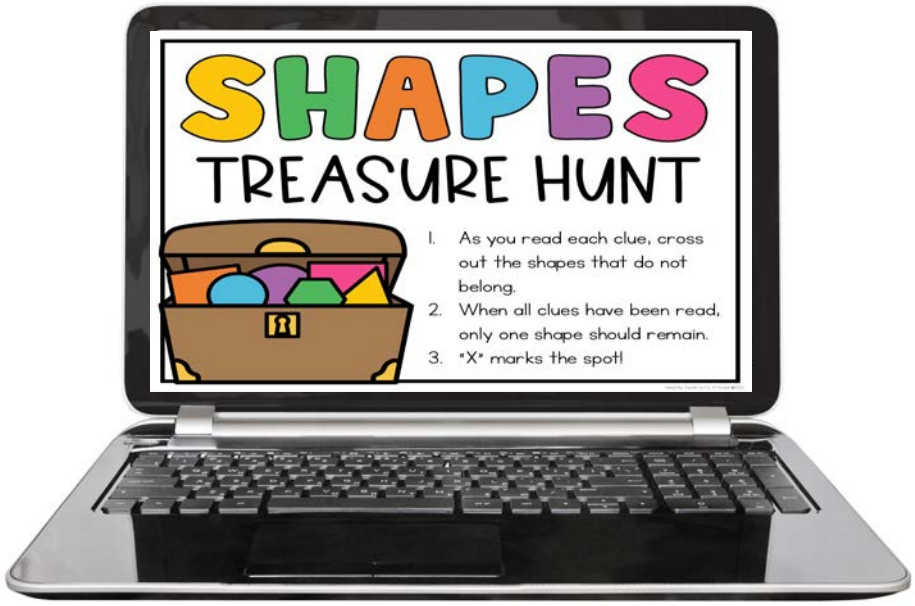
Day 8

Whole Grou

Using the Shapes Treasure Hunt PowerPoint, students wil be given clues to guess various 3D shapes.

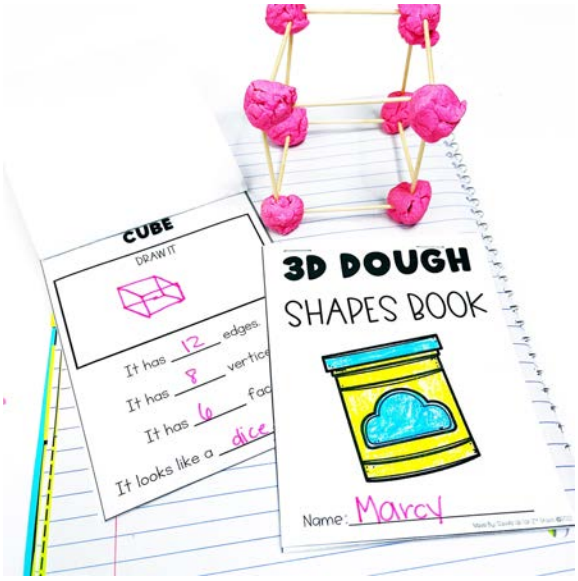


Independent Practice

Students will complete the Roll and Color for 3D Shapes.

Small Group

Students will compose 3D shapes using playdough and toothpicks. Then they will describe their attributes.



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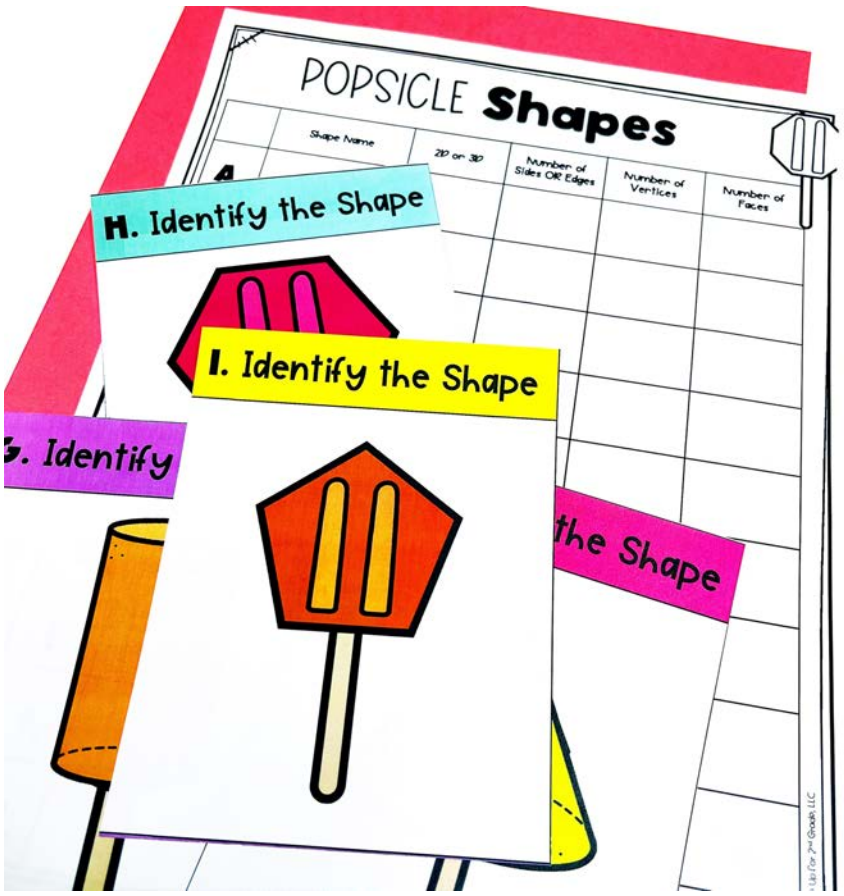
Day 9

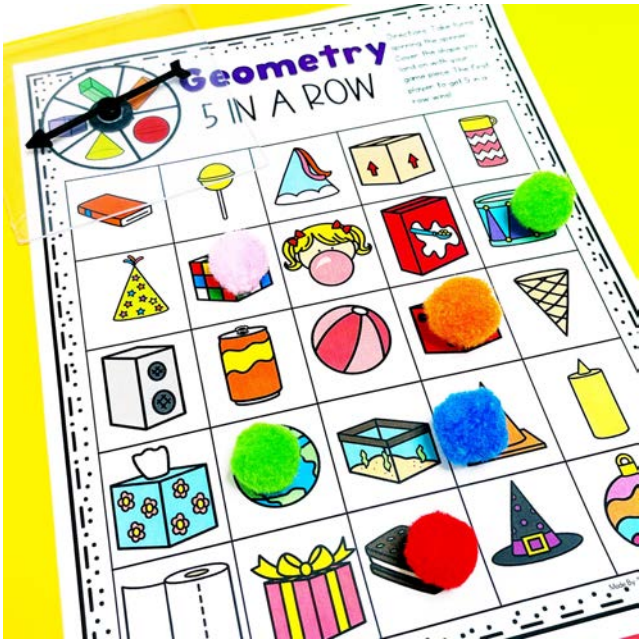
Whole Group and Independent Practice

Using task cards, students will play around the room identifying various shapes and their attributes.



Small Group

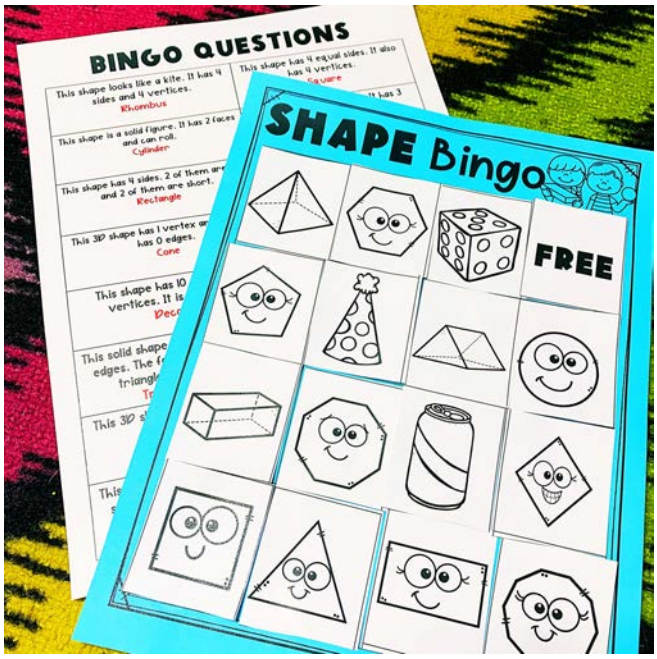
Students will play Geometry 5 in a Row independently or with a partner.



Day 10

Whole Group

Review various 2D and 3D shapes by playing bingo!

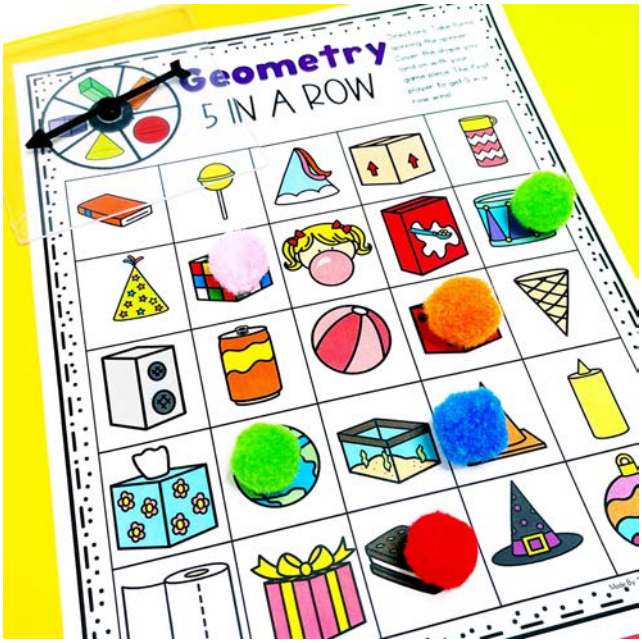


Independent Practice

Students will complete the geometry assessment.

Small Group

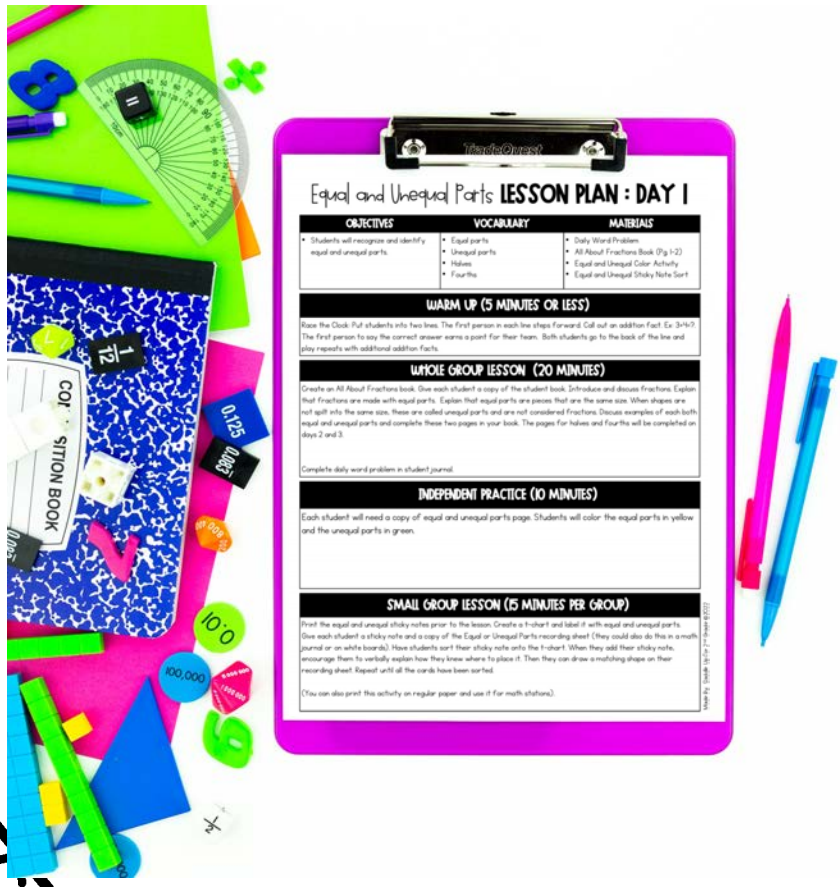
Students will play Geometry 5 in a Row independently or with a partner.



Lesson Plans

These lesson plans were designed to be used over 5 days. They cover fraction concepts of equal and unequal parts, halves, and fourths. They are to be used as a guide when planning instruction. Depending on your curriculum pacing guide, you may have more or less days to teach this concept.

Each day includes a warm up activity (5 minutes), whole group lesson (10-20 minutes), independent practice activity (10 minutes) and a small group activity (15 minutes). Times can be adjusted based on your schedule. You can read more about how to set up your math block on my blog. (See Getting Started with Guided Math Page).



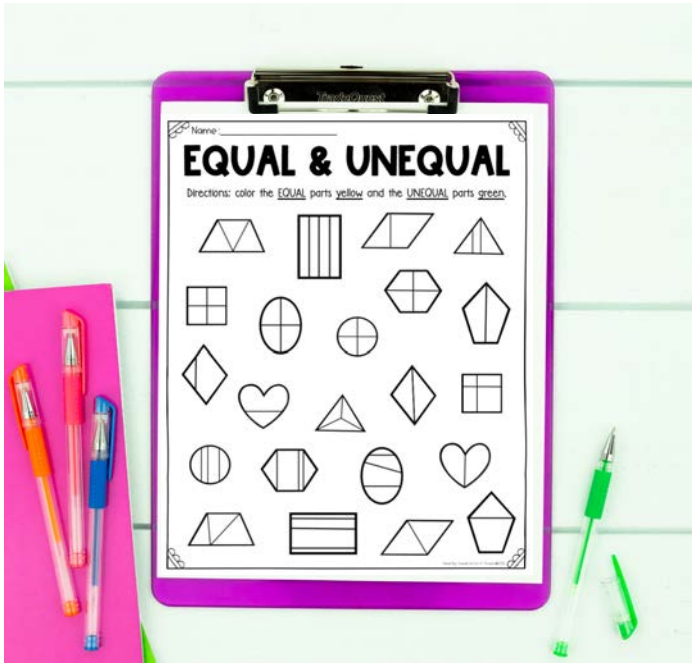
These lesson plans are filled with hands on engagement and interactive notebook activities. Games and task cards are included and can be used all year long. You will not find many worksheets in this unit.

Day 1

Whole Group

Introduce fractions by creating a fractions book with students. Today you will discuss equal and unequal parts. Each day you will add a page to this book.

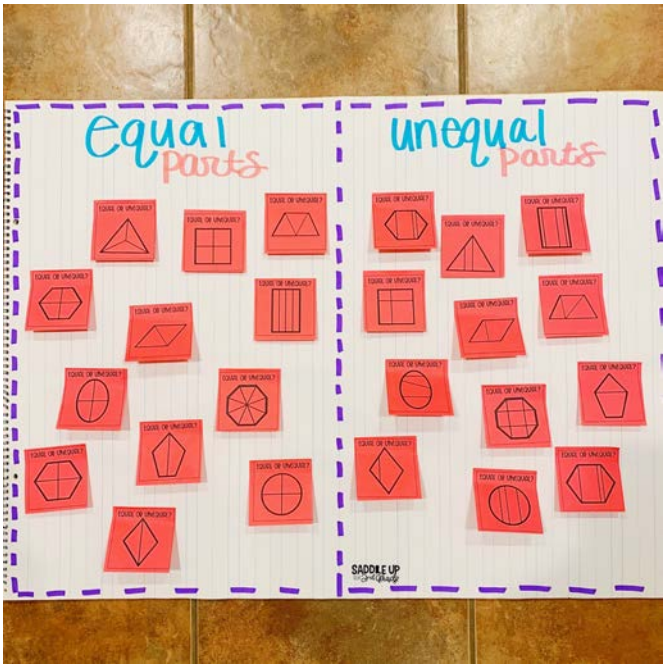
Independent Practice



Students will practice identifying equal and unequal parts with a journal activity.

Small Group

Using sticky notes, students will identify and sort equal and unequal shapes.



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Day 2

Whole Group

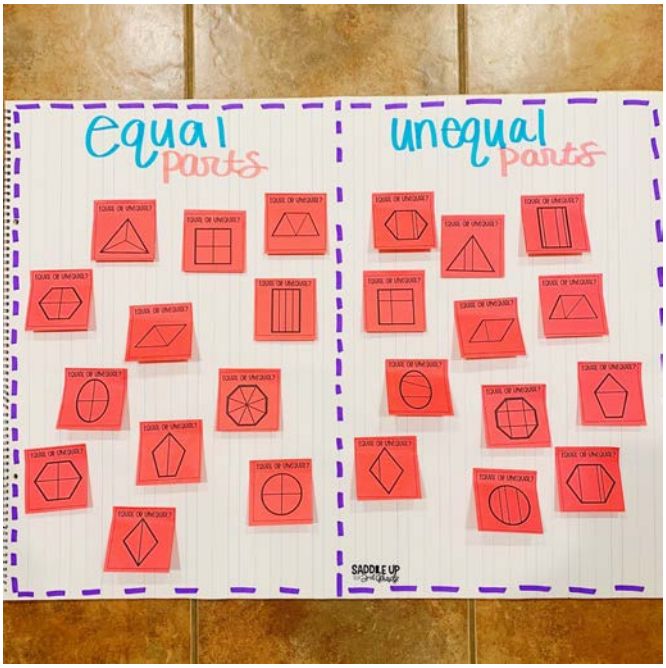
Review fractions by creating a fractions book with students. Today you will discuss halves. Each day you will add a page to this book.

Independent Practice

Students will practice dividing shapes into 2 equal parts with a journal activity or craft.

Small Group

Using sticky notes, students will identify and sort equal and unequal shapes.



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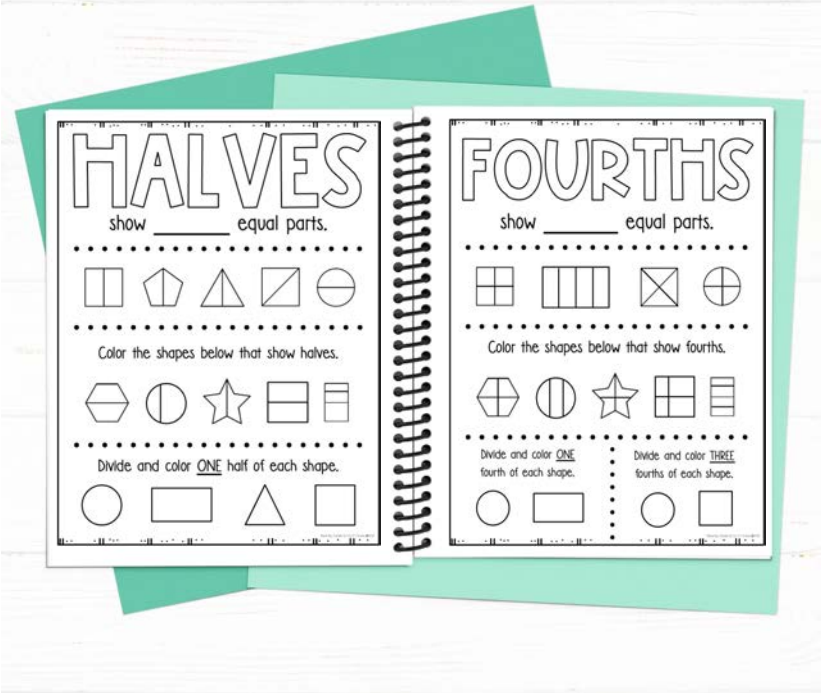
Day 3

Whole Group

Review fractions by creating a fractions book with students. Today you will discuss fourths.

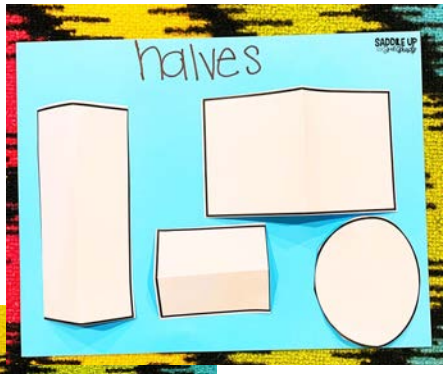


Independent Practice

Students will practice identifying different fractions by playing spin and cover.

Small Group

Students will fold various shapes to create equal parts. Then they will cut them apart and glue them back together.



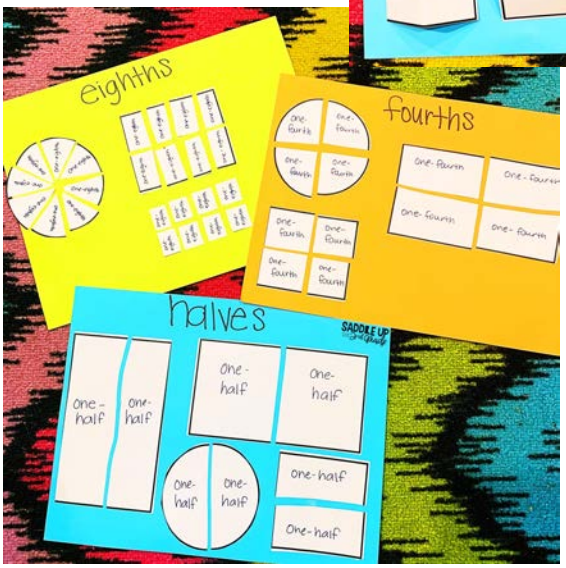


Photo example is from 2nd grade unit. Eighths is not included.

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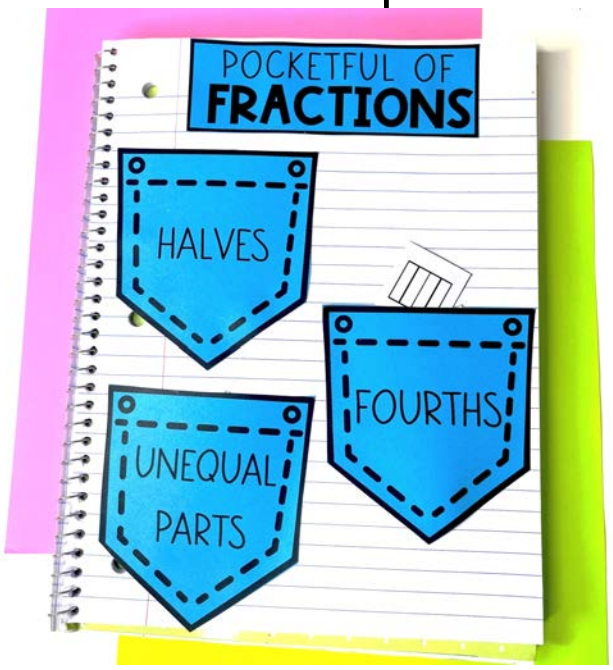
Day 4

Whole Group

Students will use playdough to practice partitioning shapes.

Independent Practice



Students will practice identifying different fractions by sorting them into pockets.

Small Group

Students will fold various shapes to create equal parts. Then they will cut them apart and glue them back together.

Photo example is from 2nd grade unit. Eighths is not included.

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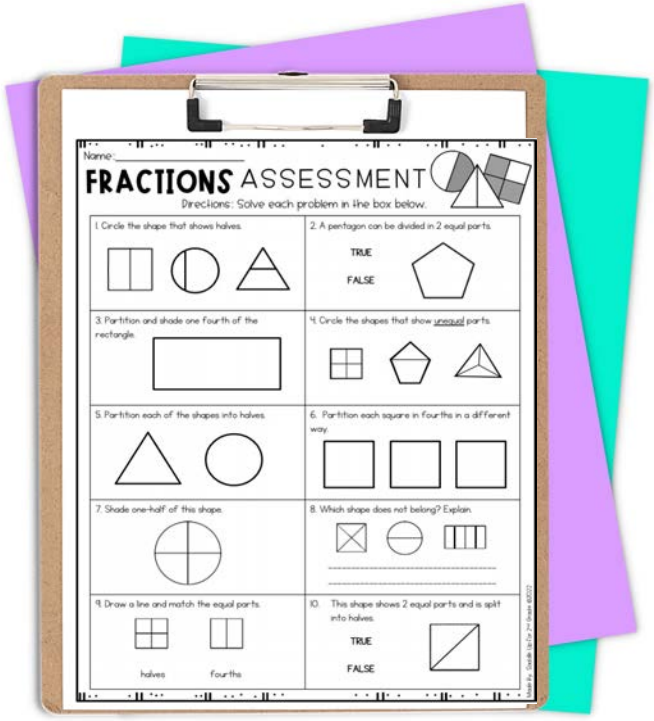
Day 5

Whole Group

Students will play a game of musical fractions to practice identifying halves, fourths, and unequal parts.

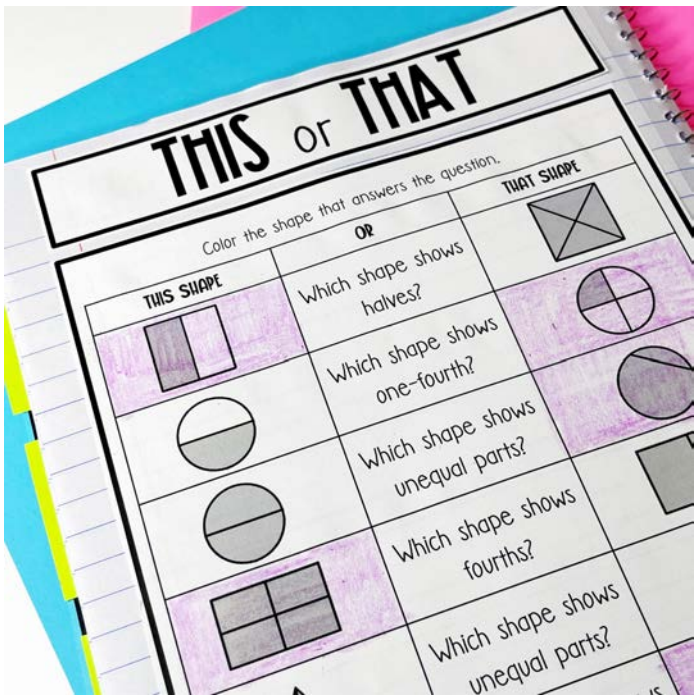
Independent Practice



Students will complete the Fractions Assessment.

Small Group

Students will complete This or That Fractions in their math journal.



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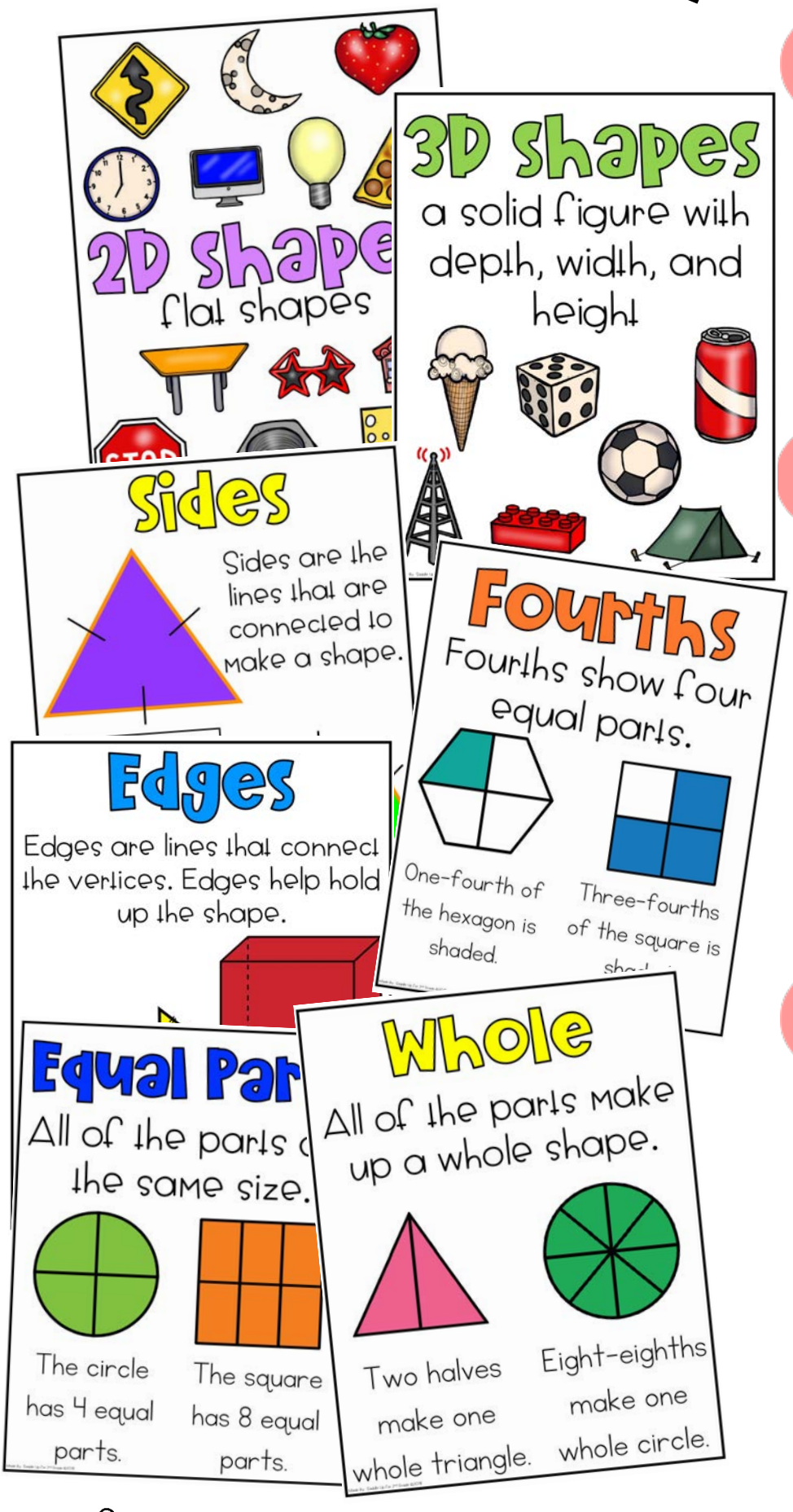
Vocabulary Posters



- great visual for ELL learners
- display on a vocabulary wall or focus wall
- place on a ring for students to always reference

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pre-tests

These pre-tests are absolutely optional. You will not see them included in the lesson plans. They are to be given prior to starting your next unit. Explain to your students that it is OK for them to not know the answers or how to do something. Here are some benefits for using pre-tests in your class.

- What do your students already know?
- What do you need to spend most of your time focusing on when teaching and what can you briefly review and move on?

Mark your students results on the data graphing sheet. If they already understand a concept, place an x or checkmark in the boxes.

- Use this data to form your small groups.
- Use this data to plan your differentiated small group lessons.

There is also a post-assessment data sheet included after the assessment at the end of the unit.

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