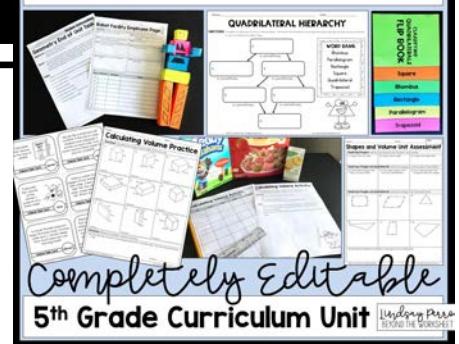


# ABOUT THIS RESOURCE

## GEOMETRY



### Details :

This huge 25 day unit covers 5<sup>th</sup> Grade Geometry Standards. If the skills don't completely align to your state standards, that's OK because this resource is 100% editable! All content can be modified to make this unit perfect for your classroom!

### Included Resources :

- Weekly warm up recording sheets
- Weekly exit ticket sheets
- Blank lesson plans
- Unit tracking pages
- Unit vocabulary sheet
- Unit pre-assessment
- Warm ups
- End of Unit Performance Task
- Partner Activity
- Traditional notes
- Fold and Flip Notes
- Practice assignments (for homework or classwork)
- A complete PDF of the unit
- An editable PPT version of the unit.
- A binder cover and spine labels

### Lessons :

- Lesson 1 : Classifying Polygons
- Lesson 2 : Classifying Triangles
- Lesson 3 : Classifying Quadrilaterals
- Lesson 4 : Area and Perimeter Review
- Lesson 5 : Intro to Volume
- Lesson 6 : Calculating Volume
- Lesson 7 : Real World Volume

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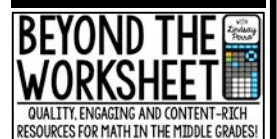
<http://bit.ly/LPerro>

### Meet the Author :

My name is Lindsay Perro and I have been an educational writer and content developer since 2009. After spending 8 years as a Middle School Math Teacher and Interventionist, I am now following my passion and focusing on creating quality educational resources to make your job easier and keep students engaged and excited about math!



Lindsay Perro



# Geometry Unit Plan

## 5<sup>th</sup> Grade Math

**24 DAY  
UNIT**

Lesson	Resources
Unit Prep (pgs. 7 – 13)	<ul style="list-style-type: none"> <li>• Weekly Warm Up Sheet</li> <li>• Exit Tickets</li> <li>• Lesson Plan Template</li> <li>• Vocabulary</li> <li>• Pre-Assessment</li> </ul>
1) Classifying Polygons (pgs. 14 – 19)	<p>Suggested time : 2 days</p> <ul style="list-style-type: none"> <li>• Two Warm Ups</li> <li>• Classifying Polygons Notes</li> <li>• Classifying Polygons Practice Worksheets (2)</li> </ul>
2) Classifying Triangles (pgs. 20 – 36)	<p>Suggested time : 2 days</p> <ul style="list-style-type: none"> <li>• Two Warm Ups</li> <li>• Classifying Triangles Notes</li> <li>• Classifying Triangles Flip Book</li> <li>• Classifying Triangles Writing Prompts</li> <li>• Classifying Triangles Practice Worksheets (2)</li> </ul>
3) Classifying Quadrilaterals (pgs. 37 – 60)	<p>Suggested time : 5 days</p> <ul style="list-style-type: none"> <li>• Five Warm Ups</li> <li>• Classifying Quadrilaterals Notes</li> <li>• Classifying Quadrilaterals Reference Sheet</li> <li>• Quadrilaterals Hierarchy Printable</li> <li>• Classifying Quadrilaterals Flip Book</li> <li>• Classifying Quadrilaterals Writing Prompts</li> <li>• Classifying Quadrilaterals Sorting Activity</li> <li>• Classifying Quadrilaterals Practice Worksheets (2)</li> <li>• Classifying Polygons Quiz</li> </ul>
4) Area and Perimeter Review (pgs. 61 – 73)	<p>Suggested time : 3 days</p> <ul style="list-style-type: none"> <li>• Three Warm Ups</li> <li>• Area and Perimeter Notes</li> <li>• Area and Perimeter Fold and Flip Notes</li> <li>• Area and Perimeter Practice Worksheet</li> <li>• Composite Area and Perimeter Practice Worksheet</li> </ul>

# Geometry Unit Plan

## ►►►►►►►► 5<sup>th</sup> Grade Math

Lesson	Resources
5) Introduction to Volume (pgs. 74 – 83)	Suggested time : 3 days <ul style="list-style-type: none"> <li>• Three Warm Ups</li> <li>• Intro to Volume Notes</li> <li>• Suggested Activity</li> <li>• Measuring Volume Practice Worksheets (2)</li> <li>• Exploring Volume Activity</li> </ul>
6) Calculating Volume (pgs. 84 – 95)	Suggested time : 3 days <ul style="list-style-type: none"> <li>• Three Warm Ups</li> <li>• Calculating Volume Notes</li> <li>• Calculating Volume Practice Worksheets (2)</li> <li>• Calculating Volume Cookie Box Design Activity</li> <li>• Calculating Volume Box Activity</li> <li>• Volume Matching Activity</li> </ul>
7) Volume in the Real World (pgs. 96 – 103)	Suggested time : 2 days <ul style="list-style-type: none"> <li>• Two Warm Ups</li> <li>• Volume Applications Practice Worksheet</li> <li>• Volume Applications Task Cards (12)</li> <li>• Area, Perimeter and Volume Quiz</li> </ul>
End of Unit (pgs. 104 – 115)	<ul style="list-style-type: none"> <li>• Unit 8 Reference Sheet</li> <li>• Unit 8 Task</li> <li>• Unit 8 Assessment</li> </ul> Suggested time : 2 days

Suggested time : 2 days

## PACING CALENDAR

# Unit 8 : Geometry

## Unit 8 : Geometry

## PACING CALENDAR

<b>Day 1</b> <b>Topic:</b> Unit Prep <b>Resources:</b> <ul style="list-style-type: none"> <li>Review Unit 7 {teacher choice activity}</li> <li>Unit 8 Pre Assessment</li> </ul>	<b>Day 2</b> <b>Topic:</b> Classifying Polygons <b>Resources:</b> <ul style="list-style-type: none"> <li>L1 Warm Up 1</li> <li>Classifying Polygons Notes</li> <li>Classifying Polygons Practice Worksheet (worksheet one)</li> </ul>
<b>Day 4</b> <b>Topic:</b> Classifying Triangles <b>Resources:</b> <ul style="list-style-type: none"> <li>L2 Warm Up 1</li> <li>Classifying Triangles Notes</li> <li>Classifying Triangles Writing Prompts 1 &amp; 2</li> </ul>	<b>Day 5</b> <b>Topic:</b> Classifying Triangles <b>Resources:</b> <ul style="list-style-type: none"> <li>L2 Warm Up 2</li> <li>Classifying Triangles Flip Book</li> <li>Classifying Triangles Writing Prompts 3 &amp; 4</li> </ul>

<b>Day 10</b> <b>Topic:</b> Quadrilaterals <b>Resources:</b> <ul style="list-style-type: none"> <li>L3 Warm Up 4</li> <li>Classifying Quadrilaterals Practice Worksheet (worksheet two)</li> <li>Shape Sorting Activity</li> </ul>	<b>Day 11</b> <b>Topic:</b> Quadrilaterals <b>Resources:</b> <ul style="list-style-type: none"> <li>L3 Warm Up 5</li> <li>Classifying Polygons Quiz</li> <li>{Insert choice activity}</li> </ul>	<b>Day 12</b> <b>Topic:</b> Area and Perimeter Review <b>Resources:</b> <ul style="list-style-type: none"> <li>L4 Warm Up 1</li> <li>Area and Perimeter Notes (two levels of completion are included.)</li> <li>Area and Perimeter Practice Worksheet</li> </ul>
<b>Day 13</b> <b>Topic:</b> Area and Perimeter Review <b>Resources:</b> <ul style="list-style-type: none"> <li>L4 Warm Up 2</li> <li>Area and Perimeter Fold and Flip Notes</li> </ul>	<b>Day 14</b> <b>Topic:</b> Area and Perimeter Review <b>Resources:</b> <ul style="list-style-type: none"> <li>L4 Warm Up 3</li> <li>Area and Perimeter Activity</li> </ul>	<b>Day 15</b> <b>Topic:</b> Introduction to Volume <b>Resources:</b> <ul style="list-style-type: none"> <li>L5 Warm Up 1</li> <li>Introduction to Volume Notes</li> <li>Measuring Volume Practice Worksheet (worksheet one)</li> </ul>
	<b>Day 17</b> <b>Topic:</b> Introduction to Volume	<b>Day 18</b> <b>Topic:</b> Calculating Volume

## TALKING POINTS

# Unit 8 : Geometry

## Tips and Talking Points

LESSON 1 Classifying Polygons	<ul style="list-style-type: none"> <li>Students may have a hard time accepting that a polygon can have two "names" – a polygon and quadrilateral. Show students a photograph of an object (or animal) that has four sides. Some classifications are loose (aka casual) but certain shapes can only be classified as one category depending on the wording.</li> </ul>
LESSON 2 Classifying Triangles	<ul style="list-style-type: none"> <li>Begin the lesson by asking students to compare objects or foods solely on physical characteristics. Two different objects can be classified using different criteria.</li> <li>Once you have gone over the material with a group of students who believe an equilateral triangle is the only one that can be classified as an equilateral triangle, have one student (or group) who believe it is NOT an equilateral triangle with proof. {hint: equilateral triangle is a special case of a triangle}</li> <li>Misunderstandings – Confusing the classification of angles will occur. Repetition and examples of angles will help students understand and be able to properly identify them.</li> </ul>
LESSON 3 Quadrilaterals	<ul style="list-style-type: none"> <li>Show students two or three different quadrilaterals and ask them to share the ways the shapes are the same and different. Let them know that there are many different ways to classify quadrilaterals.</li> </ul>

## TALKING POINTS

# Unit 8 : Geometry

## Tips and Talking Points

LESSON 4 Area and Perimeter Review	<ul style="list-style-type: none"> <li>Provide students with the dimensions for a backyard (35 feet by 40 feet). Tell some students that they will be finding the cost for grass seed by square foot and other students that they will be finding the cost of fencing. If fencing costs \$4.99 per foot and grass seed costs \$1.99 per square foot, which do they THINK will cost more? Have each group determine the cost. Discuss that the grass seed goes all throughout the yard while the fence goes around.</li> <li>Common Mistake – Forgetting that area is a measure of square units.</li> </ul>
LESSON 5 Introduction to Volume	<ul style="list-style-type: none"> <li>Ask students to compare and contrast the characteristics of two-dimensional and three-dimensional figures. The addition of the third dimension allows them to find volume.</li> <li>Misconceptions – Students may have a difficult time "seeing" the volume of a figure if it is just drawn on a piece of paper. Allow them to build three-dimensional figures using nets so they can see how volume works.</li> </ul>
LESSON 6 Calculating Volume	<ul style="list-style-type: none"> <li>Allow students to find the volume of figures using unit cubes as a hands-on way to explore calculating volume. See if they can make the connection between packing a figure with cubes and multiplication.</li> <li>Mistakes – Some students will add a squared symbol after their answer.</li> </ul>

# Teacher Resources

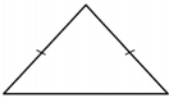
Name \_\_\_\_\_ Date \_\_\_\_\_ **two**

# Classifying Triangles

**Skill :** Classifying triangles

1) Is it possible for a triangle to be classified using or why not.

2) Classify the triangle using all applicable terms.



3) Classify the triangle using all applicable terms.

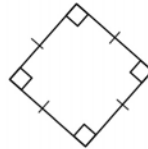


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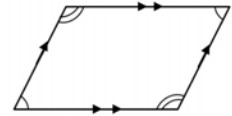
# Classifying Quadrilaterals

**Skill :** Classifying quadrilaterals

1) Classify the shape using all appropriate terms.



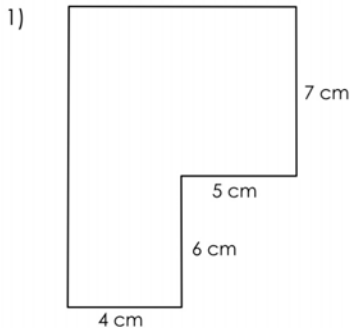
2) Classify the shape using all appropriate terms.



Name \_\_\_\_\_ Date \_\_\_\_\_ **three**

# Area and Perimeter

**Skill :** Calculate the area and perimeter of each shape.



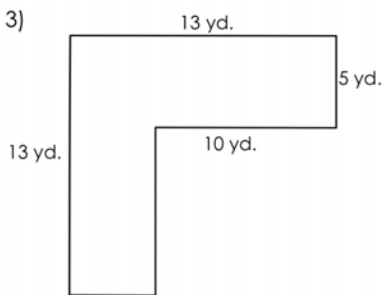
Area = \_\_\_\_\_

Perimeter = \_\_\_\_\_



Area = \_\_\_\_\_

Perimeter = \_\_\_\_\_



Area = \_\_\_\_\_



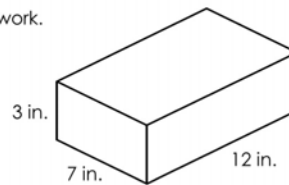
Area = \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_ **three**

# Calculating Volume

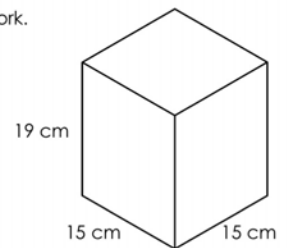
**Skill :** Calculating volume

1) Show your work.

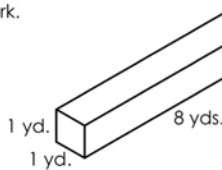


Volume = \_\_\_\_\_

2) Show your work.



3) Show your work.



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# Warm Ups

Name \_\_\_\_\_ Date \_\_\_\_\_

# Classifying Polygons Notes

## Big Idea :

- There are regular polygons and irregular polygons. Regular polygons are classified by their sides and angles.

## Review :

☐ A regular polygon is \_\_\_\_\_

☐ An irregular polygon is \_\_\_\_\_

Draw an example of each.

Regular Polygon



## Classifying Polygons

### Square

#### Sides:

- All sides are congruent
- Two pairs of parallel sides

#### Angles:

- All angles are  $90^\circ$

### Rhombus

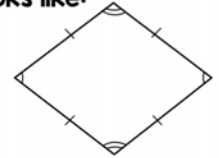
#### Sides:

- All sides are equal
- Two sets of parallel sides

#### Angles:

- Opposite angles are congruent

#### Looks like:



### Rectangle

#### Looks like:

Name \_\_\_\_\_ Date \_\_\_\_\_

# Area and Perimeter Notes

## Big Idea :

- Area is the space inside of a two dimensional figure while perimeter is the distance around the shape.

## Key Words :

- area • perimeter

### PERIMETER

#### Perimeter is...

The distance around the outside of a shape

#### Perimeter is found by...

Calculating the sum of all sides of the shape.

## Try it:

Find the perimeter of each shape.



8 in.

P = \_\_\_\_\_

P = \_\_\_\_\_

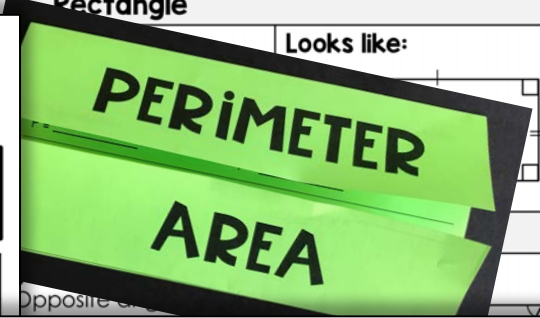
### AREA

#### Area is...

The number of square units inside of a shape

#### Area is found by...

Multiplying the length and the width of the shape. To find the area of an irregular shape...



Name \_\_\_\_\_ Date \_\_\_\_\_

# Calculating Volume Notes

## Big Idea :

- You can calculate the volume of a rectangular prism using multiplication.

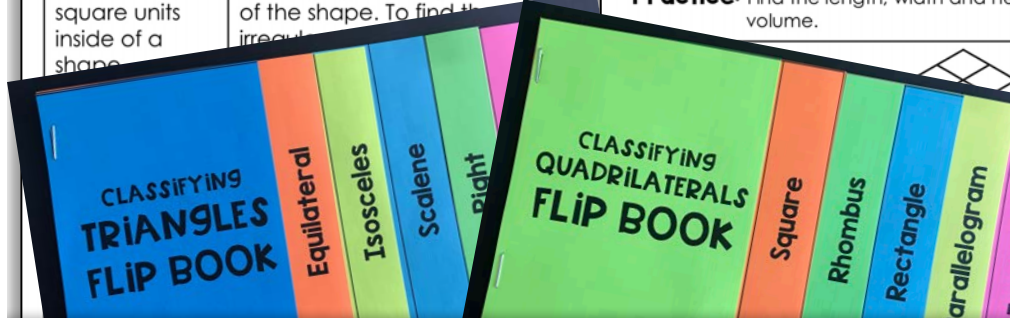
## Key Words :

- cubic units • volume

## Explore:

- ☐ You know you can calculate the volume of a rectangular prism by \_\_\_\_\_ the number of \_\_\_\_\_ units.
- ☐ You can also calculate the volume of a rectangular prism using the volume formula.
  - ☐ The formula is  $V = \text{length} \times \text{width} \times \text{height}$
  - ☐ The formula is having you multiply the area of the base (the number of cubic units that lay flat along the bottom) by the height (the number of layers)

**Practice:** Find the length, width and height of each rectangular prism and then calculate the volume.



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# Notes

Length = \_\_\_\_\_



Length = \_\_\_\_\_



Name \_\_\_\_\_

# Classifying Polygons

**Directions:** Complete the table. Draw a regular and irregular polygon.

Polygon	Sides & Vertices	Regular
Triangle	_____ sides _____ vertices	
Quadrilateral	_____ sides _____ vertices	
Pentagon	_____ sides _____ vertices	
Hexagon	_____ sides _____ vertices	
Octagon	_____ sides _____ vertices	

**Directions:** Color each regular polygon blue. Color each irregular polygon red.



Name \_\_\_\_\_ Date \_\_\_\_\_

# Classifying Triangles

**Directions:** Classify each triangle based on both sides and angles.

Triangle	Classification by Sides	Classification by Angles

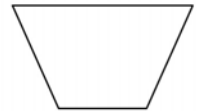
**COMPLETELY EDITABLE**

Name \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

## Classifying Quadrilaterals WRITING PROMPT #1

Describe the given shape using as many terms as possible. Explain your answer.



Name \_\_\_\_\_ Date \_\_\_\_\_

# Volume Applications Practice

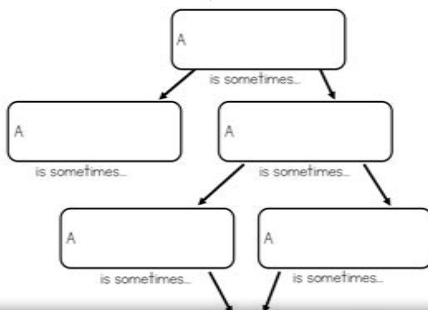
**Directions:** Read each problem carefully and solve. Show your work.

- 1) A pencil box measures 6 inches wide, 9 inches long and 3 inches deep. What is the volume of the pencil box?
- 2) Find the volume of a gift box that measures 5 inches wide, 12 inches deep and 2 inches tall.

Name \_\_\_\_\_ Date \_\_\_\_\_

## QUADRILATERAL HIERARCHY

**DIRECTIONS:** Complete the table using the terms in the word bank. Think about the attributes of each shape and what could make one shape always, sometimes, or never be classified as another shape.



### WORD BANK

Rhombus  
Parallelogram  
Rectangle  
Square  
Quadrilateral  
Trapezoid



es is cube shaped and has 9  
is the volume of the box of

ume of a box of 100  
inches

www.beyondtheworksheet.com

## Classifying Quadrilaterals WRITING PROMPT #2

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# Worksheets

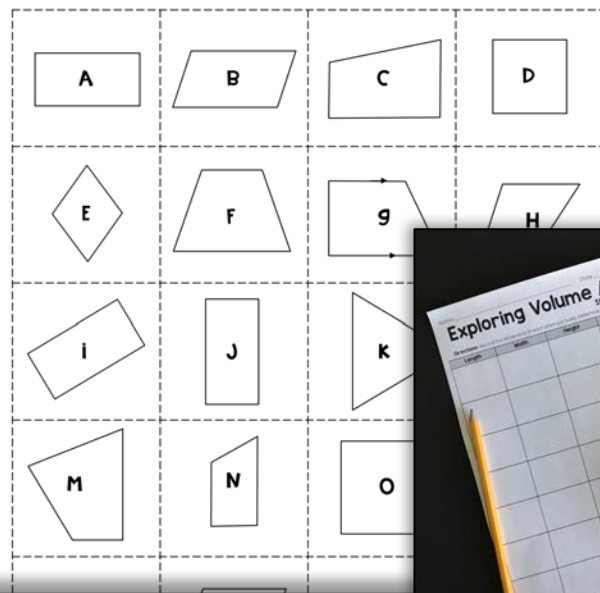
7) Which unit of measurement would be used to

8) Which unit of measurement would be used to

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# SHAPE SORTING ACTIVITY

**Directions:** Cut and place each shape into just ONE category on the Shape Sorting Mat. Some shapes may belong to more than one category. Be prepared to discuss!



Name \_\_\_\_\_

# Area and Perimeter Activity

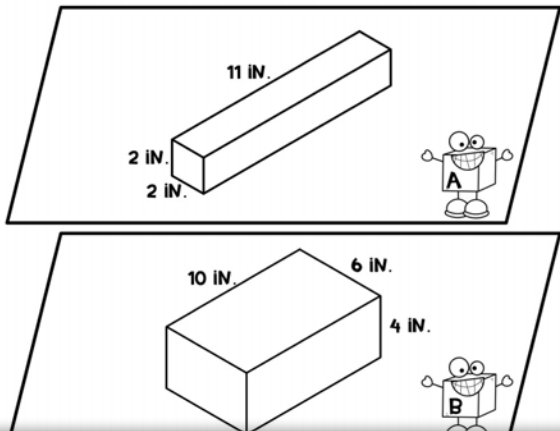
**Directions:** Create the floorplan of a house on the grid. Your floorplan must meet the given conditions.

- There must be exactly four rooms in the house.
- The area of one room must have an area of exactly 20 square units.
- The area of another room must have exactly 18 units.
- At least two of the rooms must be a "composite" shape.
- The perimeter of the entire floorplan must be between 60 units and 80 units.
- Use different colors to shade in each room. Create a key using the colors in the space below to name the rooms and write each color.



# Volume Puzzle

Cut the pieces and the rectangular prism



PARALLELOGRAM

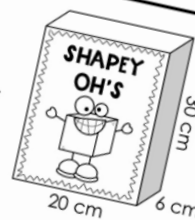
RECTANGLE

COMPLETELY EDITABLE

SHAPE SORTING MAT



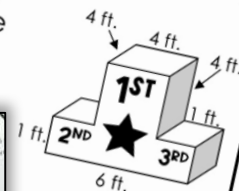
Calculate the volume of the box of cereal.



Volume Task Card

seven

Calculate the volume of the winner's podium.



Volume Task Card

nine

Marcus wants a bigger of two feet wide, 3 feet tall. The other is 4 feet wide, 4 feet tall. Which should he choose?

Volume Task Card

Calculating Volume Activity

Directions: This activity will allow students to explore volume by measuring and calculating the volume of rectangular prisms with different dimensions and calculating the volume.

Materials: One copy of the student work page per student. A variety of boxes - cereal, soap, cardboard, etc.

Steps: Have students work together to measure the dimensions of the boxes and calculate the volume. Students will record the dimensions and calculate the volume on the student work page.

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Activities

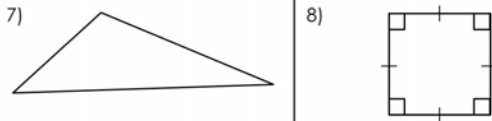
Name \_\_\_\_\_ Date \_\_\_\_\_

# Classifying Polygons Quiz





**Directions:** Identify the polygon(s) with the given characteristics.

- |   |   |
|---|---|
| 1) A three sided polygon with two congruent sides.                      | 2) A four sided polygon with two congruent sides.         |
| 3) A six sided polygon with six congruent sides.                        | 4) A four sided polygon with two congruent sides.         |
| 5) A three sided polygon with three equal sides and three equal angles. | 6) A four sided polygon with two pairs of parallel sides. |

**Directions:** Label each polygon with all possible names.



## Area, Perimeter & Volume

- |   |   |
|---|---|
| 1) Calculate the area and perimeter of a square with 8 centimeter sides.<br><br>A = _____ P = _____                           | 2) Calculate the volume of a rectangular prism that is 10 inches long, 3 inches wide, and 2 inches high.<br><br>V = _____   |
| 3) Calculate the volume of a cube with 13 millimeter sides.<br><br>V = _____  | 4) Calculate the area and perimeter of a rectangle with two 30 inch sides and two 40 inch sides.<br><br>A = _____ P = _____ |
| 5) Calculate the perimeter.<br><br>P = _____ | 6) Calculate the area.<br>               |
| 8) Calculate the volume.<br>                 | 7) Calculate the area.<br>               |

**COMPLETELY EDITABLE**

*Teacher notes*

## Geometry End of Unit Task

**Objective :** Students will design a robot using rectangular prisms. They will answer questions about their robot using their knowledge of shape characteristics, area, perimeter and volume.

### Materials :

- Scissors
- Glue
- Tape
- One copy of the Robot Facility Employee Page per student
- Student Information Sheet
  - One per student or display on projector/SmartBoard/etc.
- Pre-made prism nets (if you want)
  - Copy onto cardstock if possible so the robots can be more sturdy.
- Paper or cardstock (if not using the pre-made nets)
  - If you would prefer for students to draw their own nets, you can use blank paper or copy the blank robot grid page for them.

### Student Steps :

- Sketch your robot using only 8 rectangular prisms.
- Draw the 8 rectangular prism nets (or select 8 of the nets provided).
- Cut out the prisms.
- Complete tasks 1 – 4 on your Robot Facility Employee Page.
- Assemble the prisms.
- Assemble your robot.
- Complete tasks 5 – 9 on your Robot Facility Employee Page.



## Shapes and Volume Unit Assessment

Name \_\_\_\_\_ Date \_\_\_\_\_ Score : \_\_\_\_\_


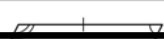


**Classifying Polygons:** Identify the polygon(s) with the given characteristics.

1) A figure with four sides.	2) A figure with six sides.	3) A figure with eight sides.
------------------------------	-----------------------------	-------------------------------

**Classifying Triangles and Quadrilaterals:** Identify the polygon(s) with the given characteristics.

4) A three sided polygon with three congruent sides.	5) A four sided polygon with one set of parallel sides.	6) A four sided polygon with two pairs of parallel sides and four congruent sides and angles.
--	---	---

**Classifying Triangles and Quadrilaterals:** Label each polygon with all possible names.

7) 	8) 	9) 
10) 		

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# Assessments

Yest  
EIGHT

Yert  
EIGHT

# Geometry

Year  
EIGHT

# Geometry

Next  
EIGHT

# Geometry

# 5th Grade Math CURRICULUM

# 5th Grade Math CURRICULUM

## Geometry

## STUDENT TRACKING

## Unit EIGHT Lesson FOUR

### Area & Perimeter Review

## STUDENT TRACKING

[illegible]

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# BEYOND THE WORKSHEET

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# Tracking Sheets & Binder Labels

# 5th Grade Geometry Unit

Vocabulary	Objectives
<ul style="list-style-type: none"> <li>acute</li> <li>congruent</li> <li>equilateral</li> <li>isosceles</li> <li>obtuse</li> <li>parallelogram</li> <li>polygon</li> <li>rectangle</li> <li>rhombus</li> <li>right</li> <li>scalene</li> <li>square</li> <li>trapezoid</li> <li>vertices</li> </ul>	<ul style="list-style-type: none"> <li>Classify two-dimensional objects based on attributes.</li> <li>Understand categories and subcategories of two-dimensional objects.</li> <li>Review area and perimeter of rectangles and composite shapes</li> <li>Understand volume as an attribute of solid figures and is measured in cubic units.</li> <li>Relate volume to addition and multiplication.</li> <li>Apply the volume formula for cubes and rectangular prisms.</li> <li>Solve real world problems involving volume or cubes and rectangular prisms.</li> </ul>
	Standards
	<ul style="list-style-type: none"> <li>5.G.3</li> <li>5.G.4</li> <li>5.MD.3</li> <li>5.MD.4</li> <li>5.MD.5</li> </ul>

## Weekly Warm Up Sheet

COMPLETELY  
EDITABLE

### Exit Ticket

Name \_\_\_\_\_  
Date \_\_\_\_\_

### Exit Ticket

Name \_\_\_\_\_  
Date \_\_\_\_\_

### Exit Ticket

Name \_\_\_\_\_  
Date \_\_\_\_\_

## Geometry Unit Lesson Plan

Standard(s): \_\_\_\_\_ Date(s): \_\_\_\_\_

### Student Materials:

- ☐ Calculator    ☐ Scissors    ☐ Compass    ☐ \_\_\_\_\_  
☐ Colored pencils    ☐ Glue    ☐ Graph paper    ☐ \_\_\_\_\_  
☐ Ruler    ☐ Protractor    ☐ Dry erase    ☐ \_\_\_\_\_

### Lesson Progression:

## Geometry

Lesson  
THREE

### QUADRILATERALS

Suggested Time Frame : Five Days

### Resources Included:

- Five Warm Ups
- Classifying Quadrilaterals Notes
- Classifying Quadrilaterals Reference Sheet
- Quadrilaterals Hierarchy
- Classifying Quadrilaterals
  - Two levels of complexity
- Classifying Quadrilaterals
- Classifying Quadrilaterals
- Classifying Quadrilaterals
  - Can be used for class
- Classifying Polygons

BEYOND THE  
WORKSHEET



QUALITY, ENGAGING AND CONTENT-RICH  
RESOURCES FOR MATH IN THE MIDDLE GRADES!

# Planning Pages