Table of Contents

Lessons & Activities

Sorts & Worksheets

Vocabulary

Games & Task Cars

Answer Keys
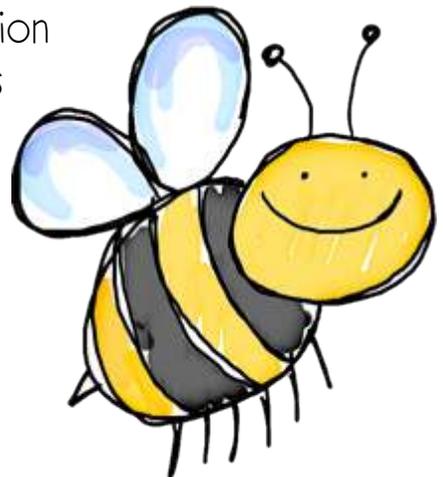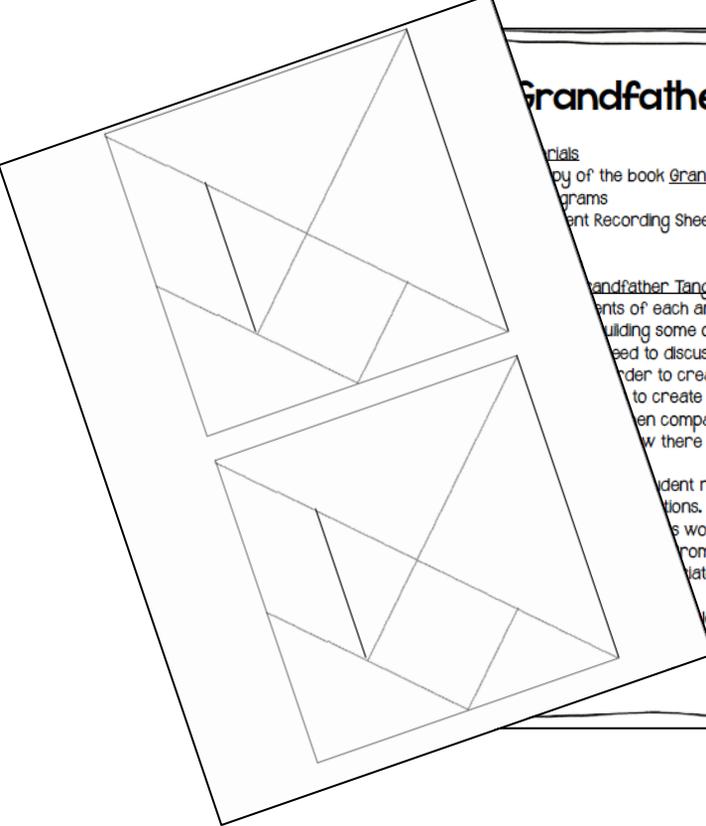
Grandfather Tang's Story

Materials
- ...py of the book Grandfather Tang's Story
- ...grams
- ...ent Recording Sheet

...randfather Tang's Story and discuss the
...ents of each animal and ask the students to
...uilding some of the shapes with the tangrams.
...eed to discuss how shapes may be turned or
...rder to create the shapes.
...to create a square using any number of
...en compare the squares with a partner
...w there were different ways to create a

...dent recording sheet to the class and
...tions.
...s work in groups to find other shapes
...rom tangram pieces and sketch
...ate square on the student

...le to complete all parts of the
...encouraged to find as many

Grandfather Tang's Story

Date _____

...ny ways as possible to create the shapes below using tangram
...tch how you made the shapes in the appropriate boxes below.

Geometry Scavenger Hunt

Materials
- Digital cameras
- Student record...

Directions
- This activity ca...
  taught geometr...
- Distribute the st...
  students and e...
  activity.

Technology Integr...
- Allow students...
  digital cameras...
  figures that ca...
  Be sure to disc...
  are not allowed...
- As an extension...
  pictures to cre...
  PowerPoint pre...

Geometry Scavenger Hunt

Name _____ Date _____

Shape	I found an example... shape...
rectangle	
parallel lines	
trapezoid	
perpendicular lines	
kite	
pentagon	
rhombus	
hexagon	

Name _____

Robot

Create an alien from another p...
shapes. You will need to the ke...
Glyph. When you finish with the...
what his special talents and ab...
below describe his geometric f...

Robot Glyph

Body of Robot
Boy-square
Girl-rectangle

Neck of Robot
My favorite subject is...
Reading-trapezoid
Writing-parallelogram
Math-equilateral triangle
SocialStudies-isosceles triangle
Science-scalene triangle

Legs of Robot
7 years old-7 inches long
8 years old-8 inches long
9 years old-9 inches long
10 years old-10 inches long

Feet of Robot
Brown eyes-hexagons
Blue eyes-pentagons
Green eyes-octagons
Hazel eyes-circles

Head of Robot
Any shape with...

0 pets-0 acute angles
1 pet-1 acute angle
2 pets-2 acute angles
3 pets- 3 acute angles
4 or more pets-4 acute angles

Geometry Zoo

You have been chosen to design a new zoo for your community. However, your zoo must be a geometric zoo, so it will have to have specific polygons and lines within the zoo.

- Two of the paths in your zoo must be parallel lines. Color these lines yellow.
- Two of the paths in your zoo must be perpendicular lines. Color these lines red.
- The tigers should be in a rectangular pen.
- The giraffes should be in a square pen.
- Place the elephants in a pen that is a hexagon.
- Make sure the zebras are in a pen that is a trapezoid.
- You can use a pentagon for the lion's pen.
- The crocodiles should be in an octagonal pen.
- Place the monkeys in a pen that is an equilateral triangle.
- Make sure the kangaroos are in a pen that is an isosceles triangle.
- Put the hippos in a pen that is a scalene triangle.

After you build your zoo, add details like restaurants, restrooms, seating areas, etc. to make your zoo as appealing as possible. Be sure to draw all of the animals in their pens and add as many details as possible. Be sure to draw a plan for your zoo on scrap paper before starting your zoo. You will need to draw your zoo on a large sheet of bulletin board paper, so you will have plenty of room for all the animals!
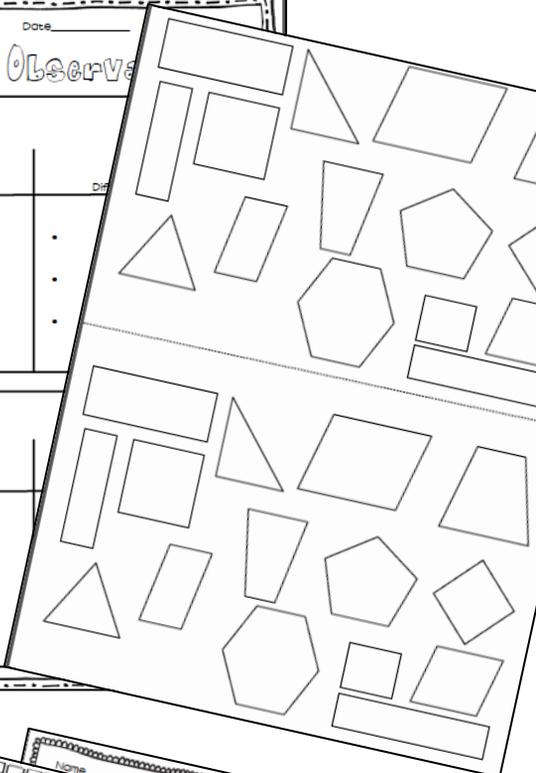

Name_____ Date_____

Geometric Observa...

Similarities | Differences

-
-
-

Similarities

-
-
-

Name_____

Can You Find It?

Materials
- Student recording...

Directions
- The purpose of t...
  discover irregular...
  quadrilaterals oth...
  rectangles.
- Students should us...
  recording sheet to...
  polygons.
- Remind students th...
  drawing *regular p...*
- Students should als...
  each shape using t...
  page.

Name_____

Can You Find I...

Use the dotted paper below to draw and color the...

Irregular Pentagon-Red   Irregular Hexagon-O...

Trapezoid-Green   Rhombus-Blue

Name_____ Date_____

Types of Lines Sort

Ray	Line Segment	Parallel Lines	Perpendicular Lines
two lines that intersect and form right angles	two lines in the same plane that never intersect	a part of a line that has two endpoints	has one endpoint and goes on forever in the other direction
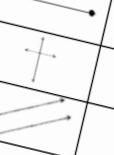
---

Name_____ Date_____

...f Angles Sort

RIGHT	OBTUSE
less than 90°	
greater than 90°	
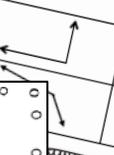
Polygons

3 sides	4 sides	5 sides	6 sides	8 sides

4 sides:
- 1 set of parallel sides
- no parallel sides, adjacent sides congruent
- 2 sets of parallel sides

2 sets of parallel sides:
- opposite sides are equal & 4 right angles
- 4 equal sides, 2 acute angles & 2 right angles

opposite sides are equal & 4 right angles:
- 4 equal sides, 4 right angles
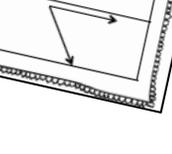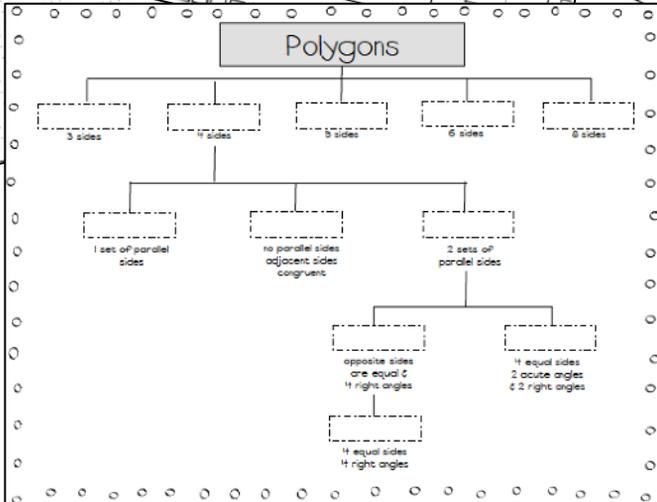
Make A Shape

Name_____ Date_____

Draw a polygon with one right angle and three sides.

Draw a polygon with four equal sides and no right angles.

Draw a quadrilateral with one set of parallel sides.

Draw a polygon with four right angles.

Trapezoid

Sides _____

Rhombus

Kite

Describing Quadrilaterals

Name_____ Date_____

Describe each of the properties of the quadrilaterals listed below. Use words such as "all" or "at least".

Square

Sides _____

Angles _____

Parallel Lines _____

Rectangle

Sides _____

Angles _____

Parallel Lines _____

Geometry Riddles

Name_____ Date_____

Directions: Create riddles that describe 5 different geometric shapes. Each riddle must have at least 4 different clues that begin with "I have..." or "I am..." or "All...".

Riddles	Geometric Shape
Example: 1. I am a plane figure 2. I am a polygon 3. I have 6 sides 4. All of my angles are obtuse	Hexagon

---

Geometry Quiz

Name_____ Date_____

Match the following definitions with the correct term.

1. _____ acute angle
2. _____ line
3. _____ Celsius
4. _____ Fahrenheit
5. _____ equilateral
6. _____ line segment
7. _____ hexagon
8. _____ isosceles
9. _____ obtuse
10. _____ parallel lines
11. _____ right angle
12. _____ scalene
13. _____ pentagon
14. _____ octagon
15. _____ area

A. ←→

B. a polygon with 8 sides and 8 angles

C. an angle less than 90°

D. →

Geometry Vocabulary Review Sheet

- Line-a line goes on forever in both directions
- Line segment-a piece of a line with two end points
- Ray-a part of a line with one endpoint and goes on forever in the opposite direction
- Parallel lines-two lines in the same plane that will never intersect
- Perpendicular lines-two lines that intersect and form 90 degree angles
- Acute angle-angle less than 90 degrees
- Right angle-angle that is exactly 90 degrees
- _____ 90 degrees and less
- _____ ides and four 90
- _____ degree angles, and
- _____ sides, two acute
- _____ f parallel sides
- _____ equal
- _____ of itself

Geometry Vocabulary

BY _____

Line

Picture

In my own words...

I Have Who Has Geometry
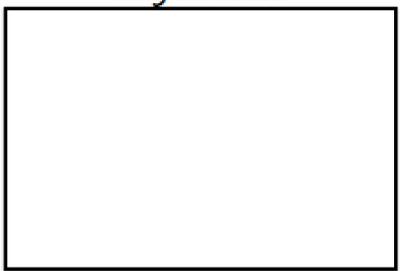
I have an **obtuse angle**

Who has a polygon with 5 sides?

I have a **pentagon**

Who has an angle whose measure is less than 90°?

I have Who Has Geometry

Preparation
Print cards on card stock
Laminate and cut out cards

How To Play
Distribute each of the cards. Depending on your class size some students may need two cards.
Have one student begin the game by reading their card
Ex: "I have a square. Who has lines that never intersect?"
The student who is holding the "parallel lines" card should answer by reading their entire card.
Students should go through each of the cards until they get back to where they started.
The object of this game is for students to increase their speed and to decrease the amount of time it takes to use each of the cards.

I have a **vertex**

Who has a closed-in, plane figure with straight lines?

I have a **polygon**

Who has all four-sided polygons?

I have an **acute angle**

Who has a triangle with 3 equal sides and 3 equal angles?

I have an **equilateral triangle**

Who has a line that passes through the center of a circle?

I have a **quadrilateral**

Who has a parallelogram with all four sides equal in length, with no right angles?

I have a **rhombus**

Who has a quadrilateral with exactly one pair of parallel lines?

Geometry Concentration

Preparation:
- Print cards on card stock
- Laminate and cut out cards

How to Play:
- Shuffle all of the geometry cards.
- Lay all of the cards face down on a flat surface.
- Students should take turns trying to find matches by picking two cards up each turn.
- If the two cards are a match, the student gets to keep the set and has another turn.
- If the two cards are not a match, the student should lay the cards down in the same place, and then the turn is over.
- After all of the matches have been found, students should count all of the matches they collected during the game and whoever has the most wins the game.
- This game can be played with partners or small groups.

Plane object that has no endpoints and continues on forever

Distance between two endpoints

Triangle with 3 equal sides

Triangle with 2 equal sides

Geometry Task Cards

Materials
- Task Cards
- Answer Sheet

Preparation
- Print and laminate task cards (use cardstock for extra durability)

Directions
- This makes a great center or work station activity! Have students with a partner to answer a variety of geometry questions.
- If you have not yet taught a particular skill or term, you can remove those cards until your students are ready.
- I encourage my students to review their work with the included answer key. However, I don't give them the answer key until after they've completed the activity.

Which shape doesn't belong? Why?
25

Which shape doesn't belong? Why?

Which shape doesn't belong? Why?
27

Which shape doesn't belong? Why?

...e figure below.
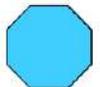
Identify the figure below.
2

...e figure below.
3

Identify the figure below.
4