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TO THE TEACHER

- This product is meant to be a no frills, all action tool for cementing the concept of classifying 2D figures in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
- TEKS
 - 5.5a classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties
- Common Core
 - CCSS.MATH.CONTENT.5.G.B.3 Understand that attributes belonging to a category of two-dimensional figures also belong to all the subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.
 - CCSS.MATH.CONTENT.5.G.B.4 Classify two-dimensional figures in a hierarchy based on properties.

PREP RECOMMENDATIONS

- Each activity is created in black and white to conserve color ink.
 - Using colored paper to differentiate different parts in each activity or the different stations will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.

CONTENT VOCABULARY

classify

2D figures

sets

graphic organizers

properties

n n-p ra el gran

aralle og am

seci. n

triangle

angles

perpendicular

vertex

use

hierarchy

su as ets

a ribut

p lygor

aaniateral

shape

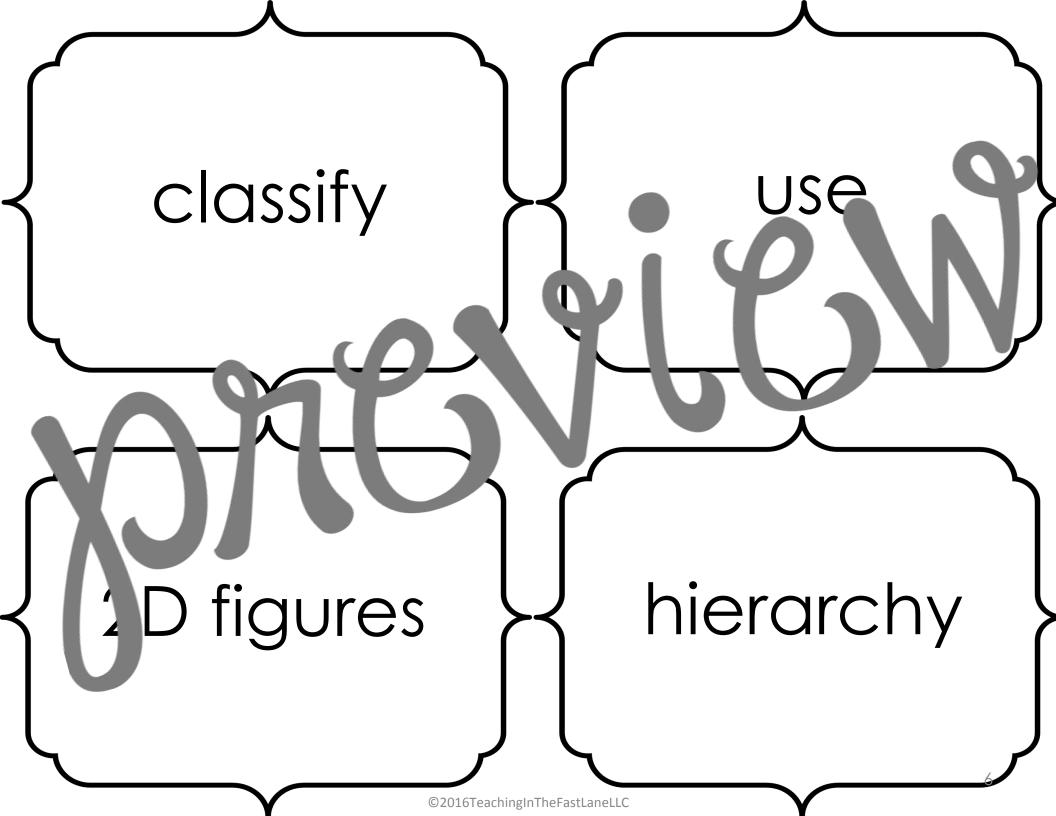
rectangle

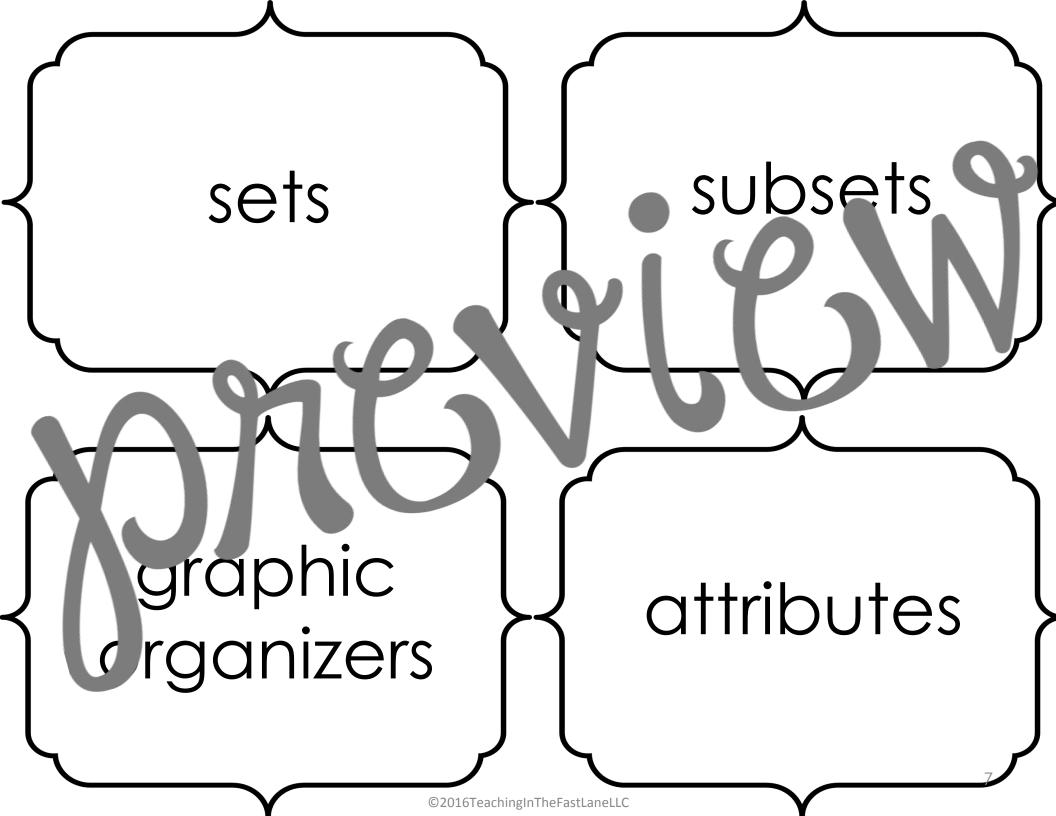
square

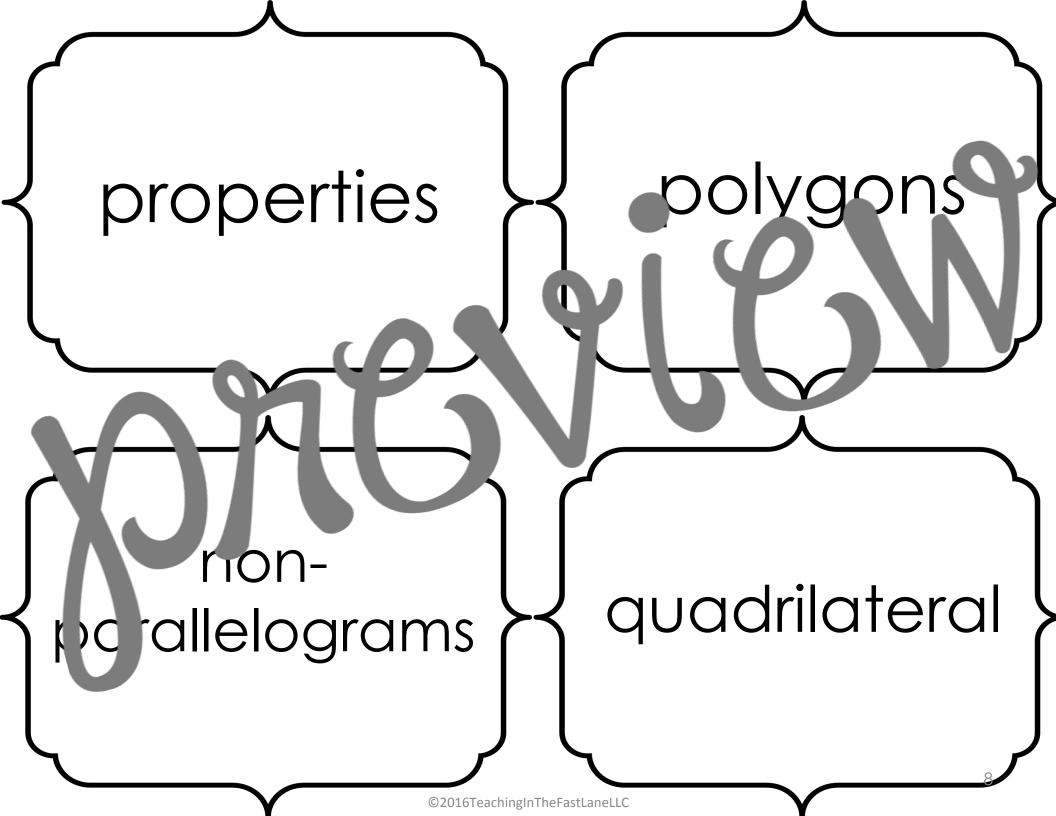
parallel

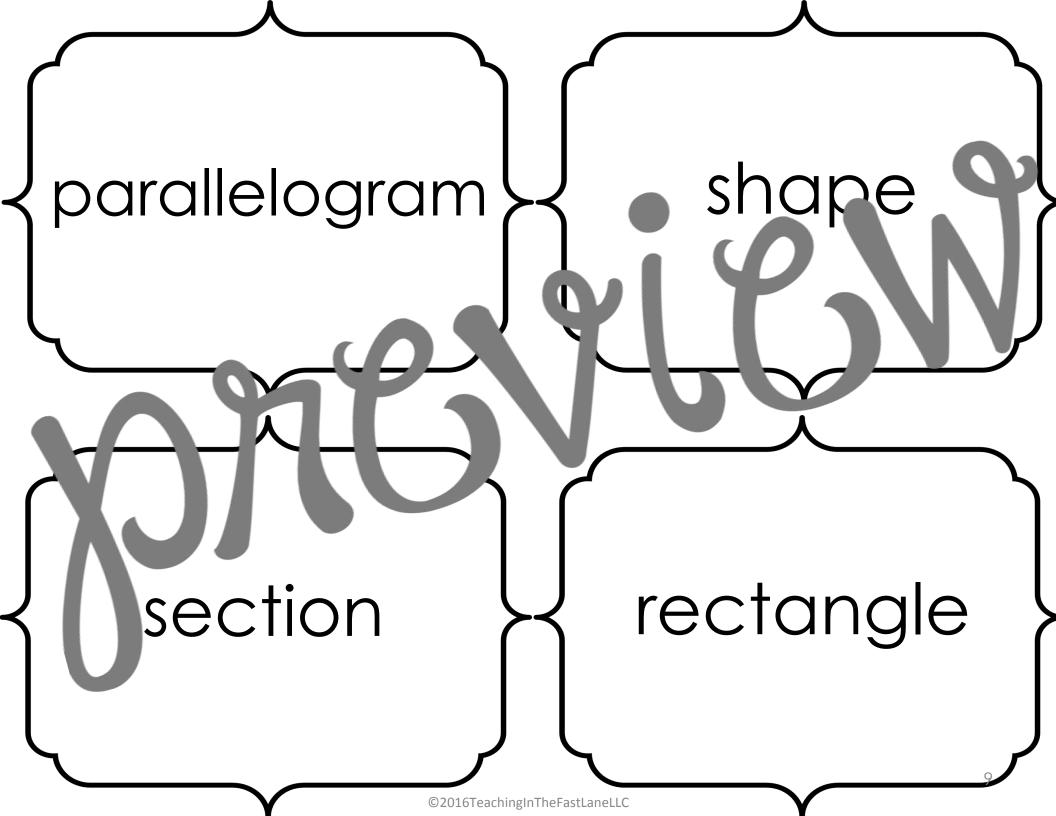
sides

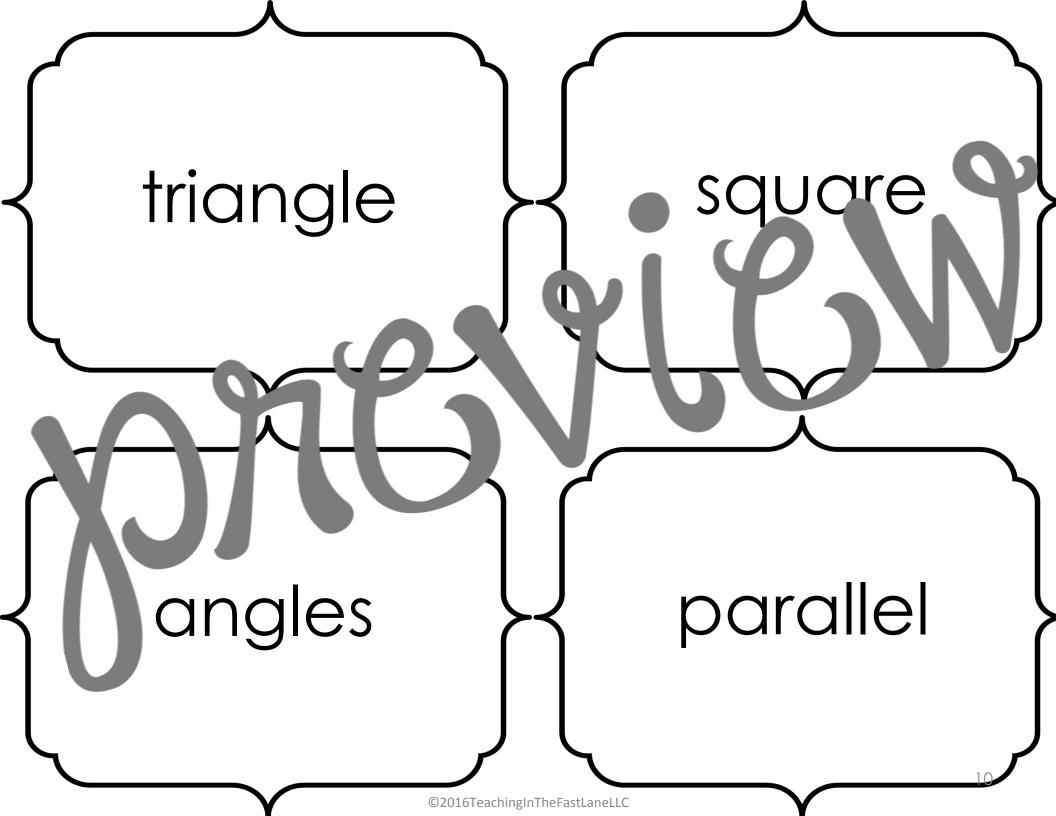
vertices

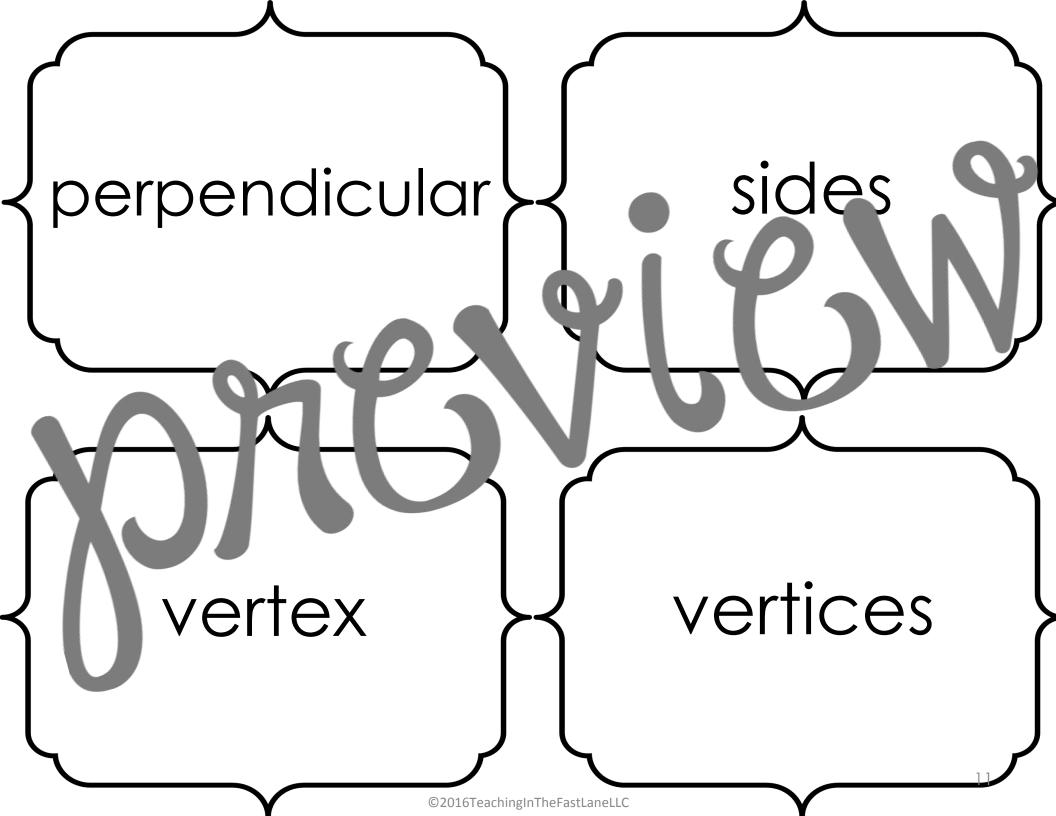












SHAPE

Scrt the snapes based on their authoutes as being either not a polygon, a triangle, a quadrilateral, or a polygon.

TEACHER SUGGESTIONS SHAPE SORT

- In this activity students are asked to sort two dimensional faures triangles quadria er ls, polygon are of paygons.
- This cativity can be used in a ariet of war:
 - ✓ Srall roup ith same
 - A partner activity for practice Independently to assess

aterials

Included:

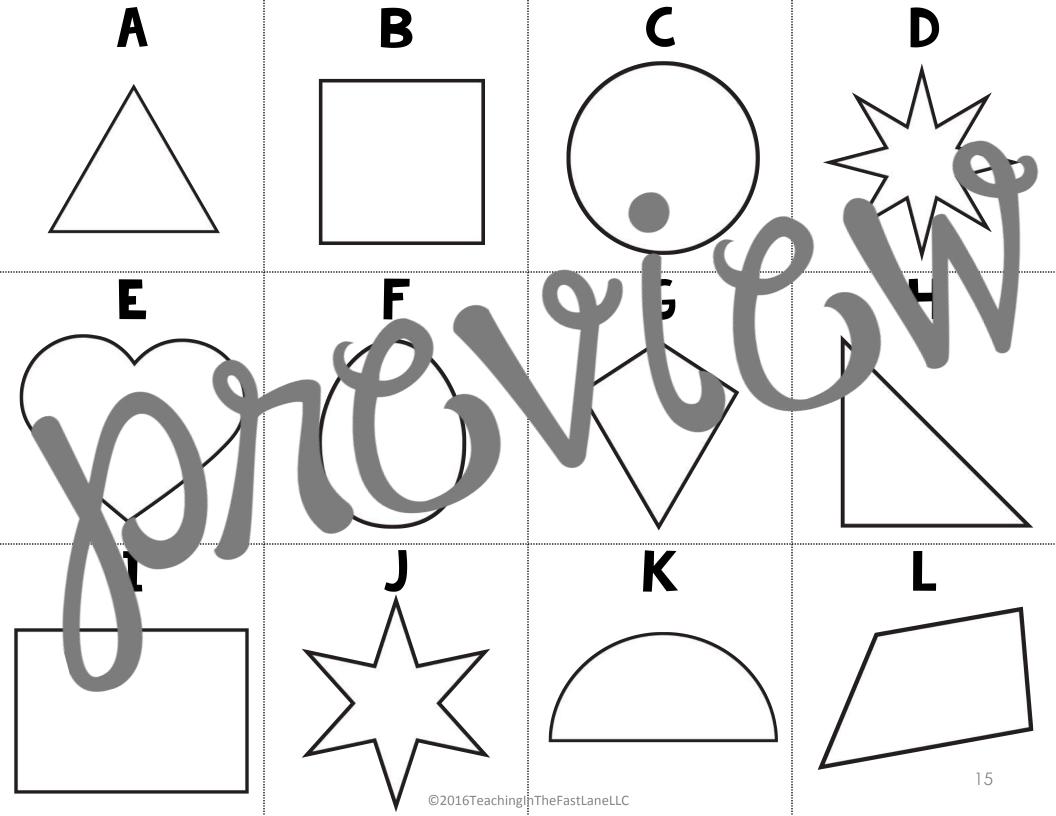
- Gometric igures
- on a MatRecording Sheet
- Answer Key Not Included:
- Pencil

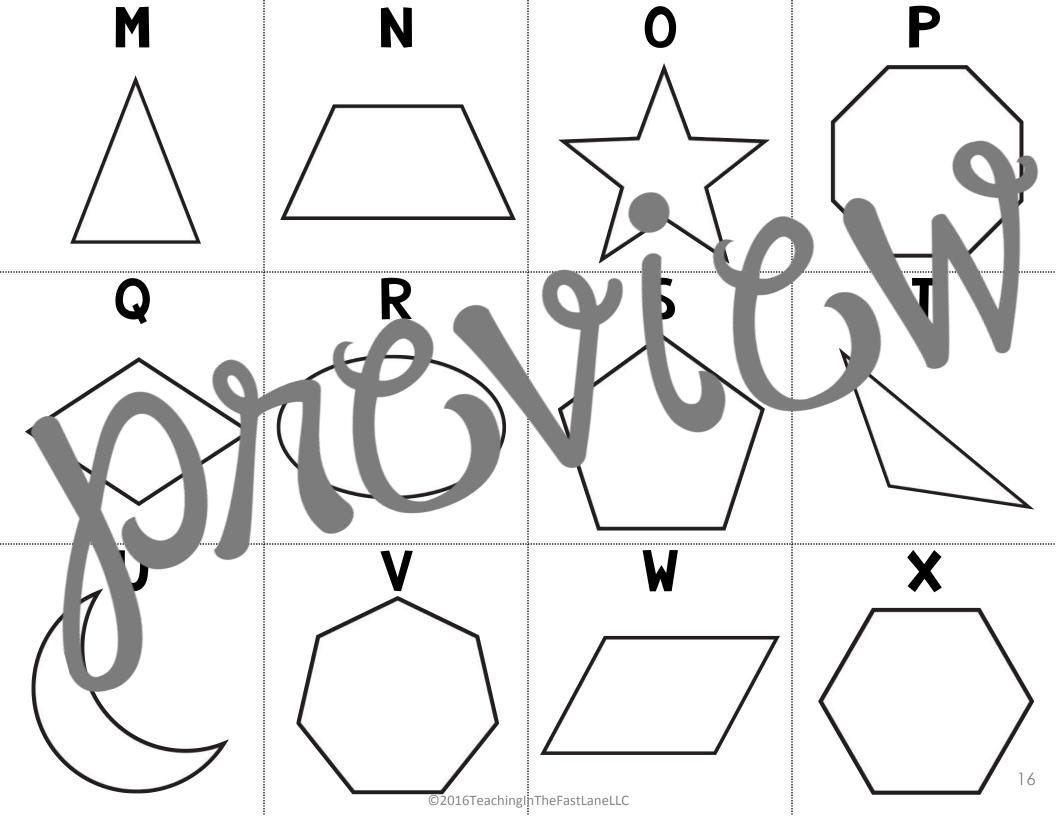
TRIANGLES

QUADRILATERALS



POLYGONS © 2016 Teaching In The INCOT POLYGONS





Name	#	Date	
------	---	------	--

TWO DIMENSIONAL SHAPE SORT RESPONSE SHEET

Sort each shape as a triangle, quadrilateral, polygon, or not a polygon.

		, , ,	, , ,
Triangle	Quadrilateral	Polygon	Not a Polyg i
		91	P 1 1

TWO DIMENSIONAL SHAPE SORT ANSWER KEY

Triangle	Quadrilateral	Polygon	Not a Polyg v
Α	В	D	
Н		J	EAA
		Vov	F
Ţ		Р	K
	Ν	S	R
U	Q	V	U
	W	X	

CLASSIFYING QUADRIATERALS

Corpote the bracket of reaarilaterals by comparing their attributes.

TEACHER SUGGESTIONS TO CLASSIFYING QUADRILATERAL

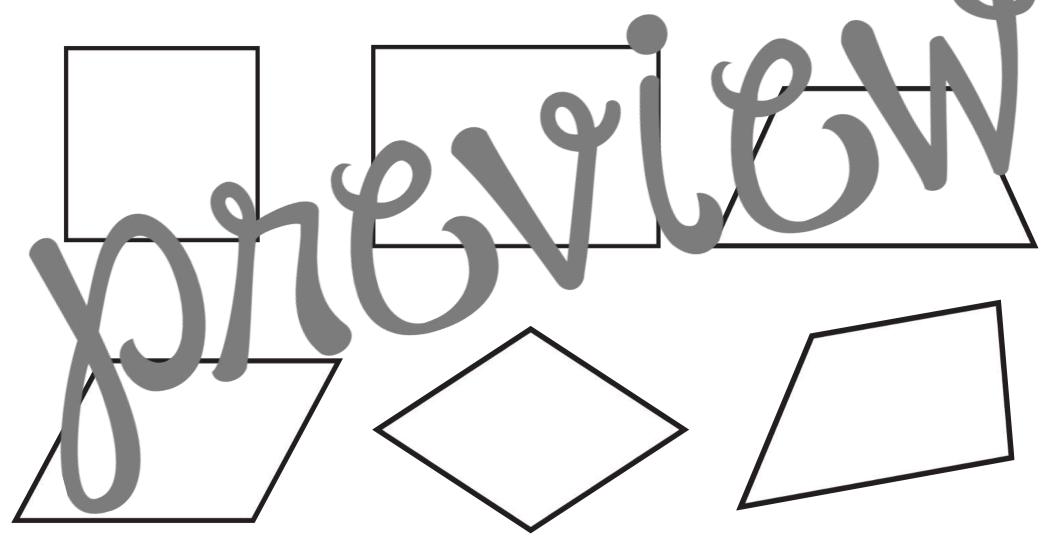
- In this activity students are asked to complete a bracket ap b' classifying the cure' tells by their attility
- It is a stiving the sea a larger of ray
 - Sr I buk th conf
 - e :e
 - ar...er activity for practice Independently to assess

rjalsر ال

Inclu d:

- Q drilate
 - TO TO
 - ecorumg Sheet
- Answer Key Not Included:
- Pencil

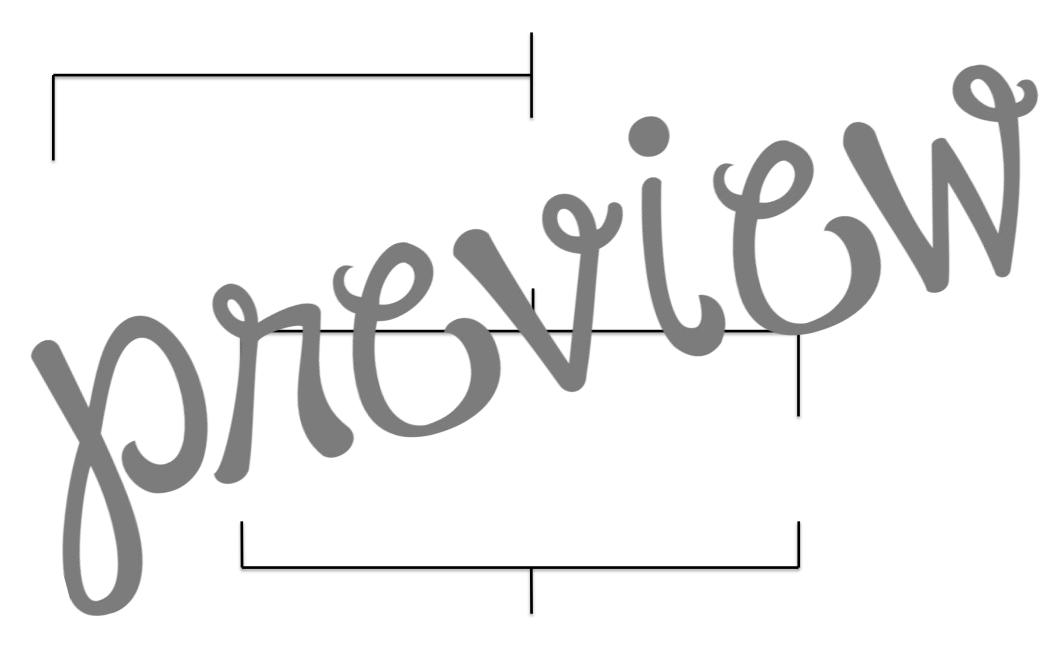
Use each of the figures below as models to complete the bracket map. Make sure to label each figure with their name.

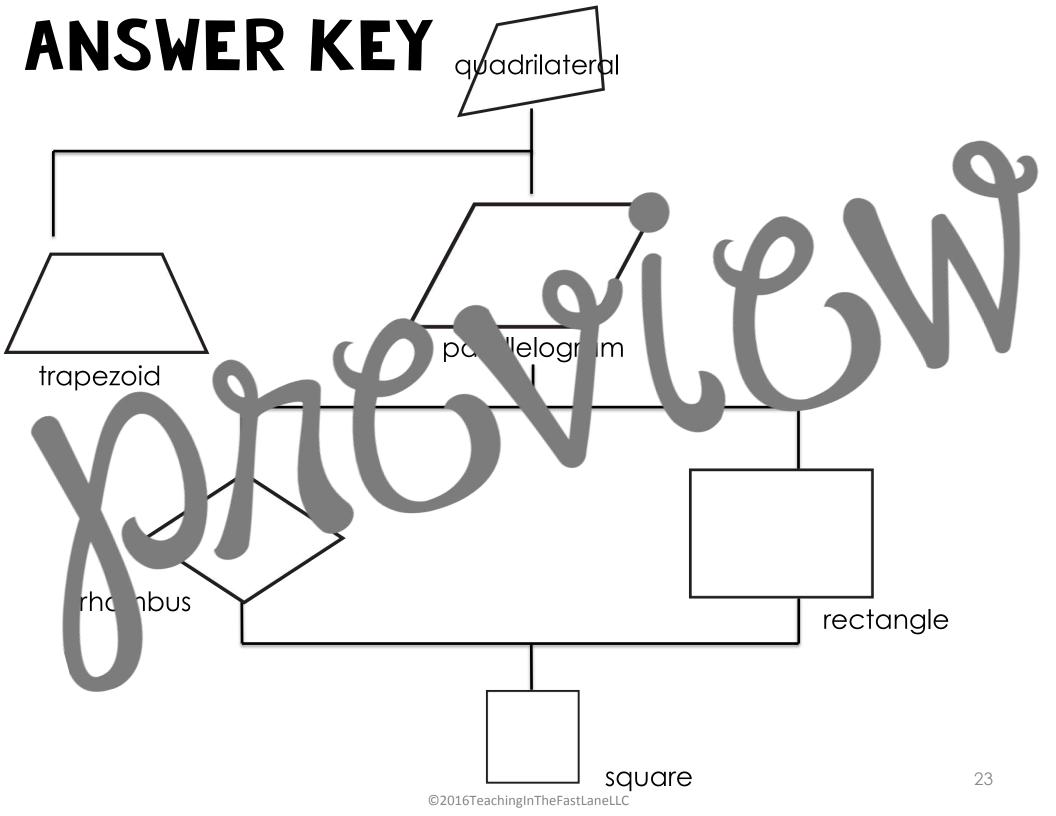


Name _____

ŧ

Date_____





IDENTIFYING AUTRICES

Identify the attributes of each figure, and then record them on the response sheet.

TEACHER SUGGESTIONS IDENTIFY 2D ATTRIBUTES

- In this activity students are asked to name each figure are lider. the lines and argles here h 2D figure.
- This cativity can be used a a ariet of war:
 - ✓ Srall roup ith cacher
 - A partner activity for practice Independently to assess

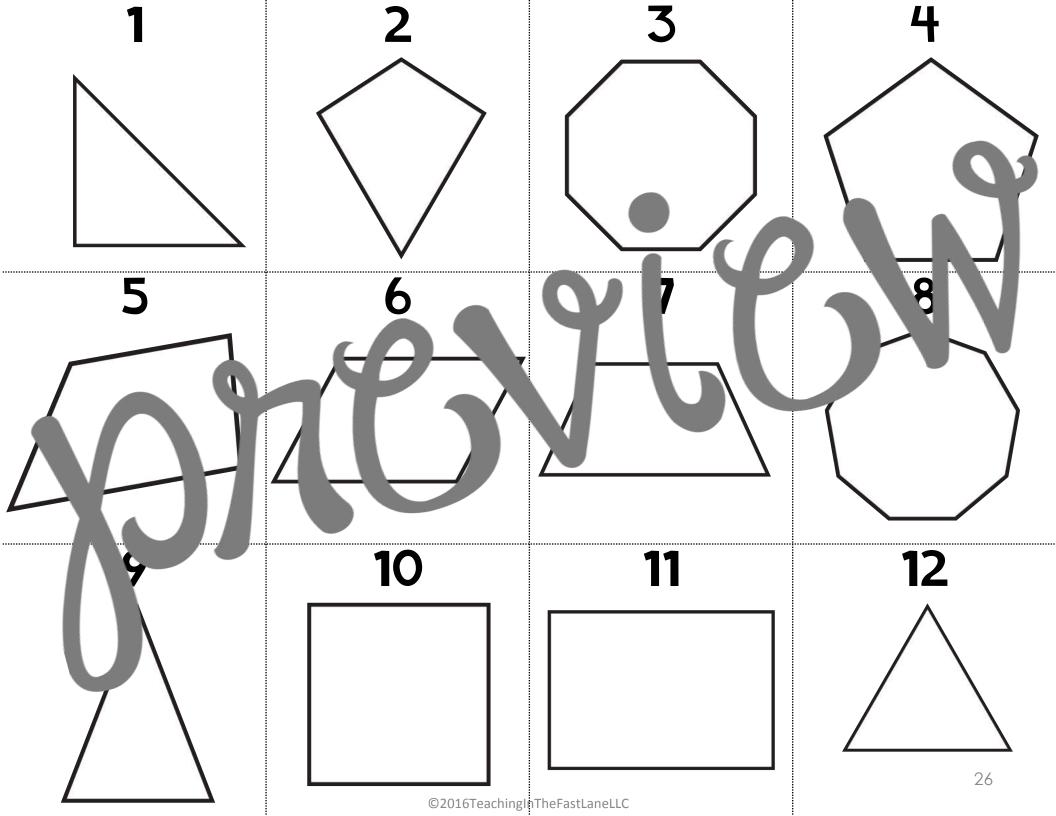
...aterials

Included:

- 2L Figure () rds
- · Recording Sheet
 - Answer Key

Not Included:

Pencil



Name _____ #___ Date____

IDENTIFYING ATTRIBUTES RESPONSE SHEET

Name each figure and identify its attributes.

4	2	3
	3	9
10	11	12

IDENTIFYING ATTRIBUTES ANSWER KEY

triangle 3 sides 3 angles (one right, two acute) one set of perpendicular lines	kite/quadrilateral 4 sides (2 sets equilateral) 4 angles(2 acute an obtuse)	octagon 8 sides (all equilaters, 8 ar s (all obtuse)
pentagon 5 sides (all equilateral) 5 angle (all obtuse)	quaan ral 4 side 4 an 3s (2 ac te anc 2 obtu)	pc lelc on 4 sides ets c aralle equateral lines) 4 and 3 (2 obtuse and 2 acute)
trap zoid 4 side (1 s r of pc 1 less) es acute and 2 obtuse)	nonagon 9 sides (equilateral) 9 angles (all obtuse)	friangle 3 sides (two are equilateral) 3 angles (all acute)
square 4 sides (all equilateral, opposite sides are parallel, four sets of perpendicular lines) 4 angles (all right)	rectangle 4 sides (opposite sides are equilateral and parallel, 4 sets of perpendicular lines) 4 angles (all right)	triangle 3 sides (all equilateral) 3 angles (all acute)



Match each figure to the description of its attributes.

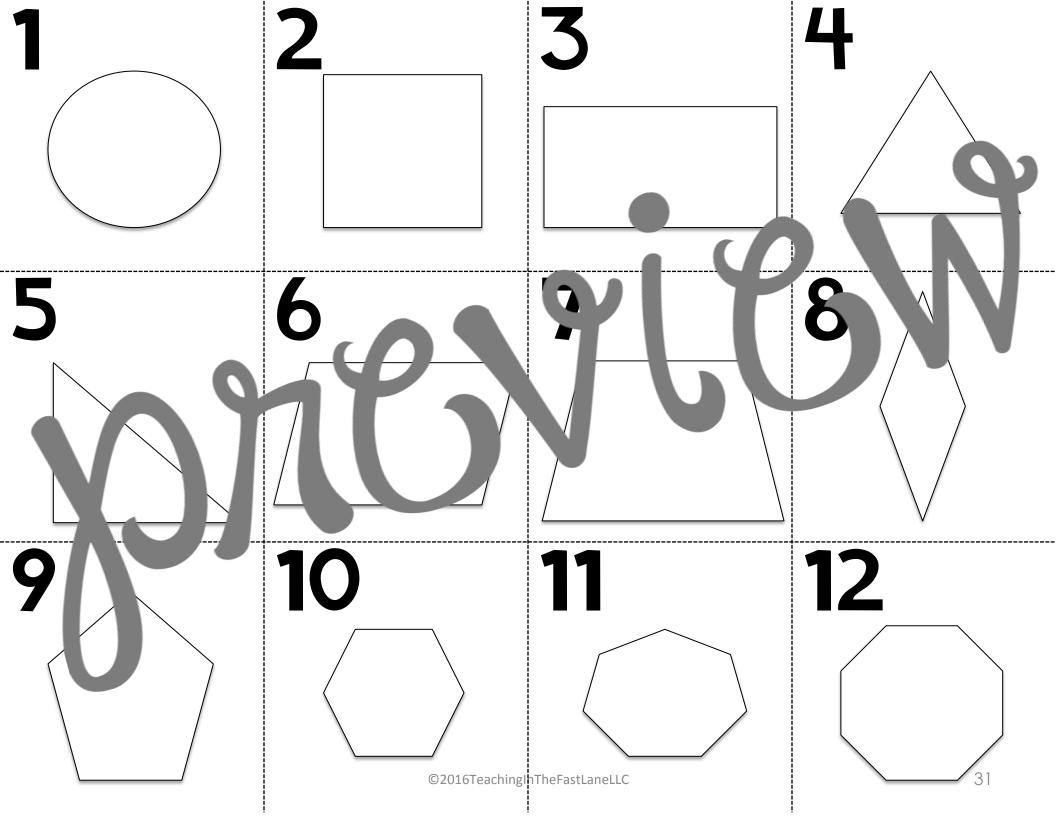
TEACHER SUGGESTIONS DESCRIPTION MATCH

- In this activity students are asked to match each figure to "s attribute description.
- This action / nroused in varie / of vars:
 - ✓ Sr all rou wit teache gude ce
 - A partice activity for practice independently to assess

...aterials

Included:

- Figures
- Attr. ute Descriptions
- Recording Sheet
- Answer Key Not Included:
 - Pencil



NOT A POLYGON, ALL POINTS ARE EQUIDISTANT FROM THE CENTER POINT

FOUR SIDED POLYGON WITH FOUR RIGHT ANGLES AND 4 EQUILATERAL SIDES

FOUR SIDED
POLYGON WITH
OPPOSITE SIDES
PARALLEL AND
EQUITATERAL
ALSO LAS FOUP
RIGHT ANG E

A THREE SIDED POLYGON WITH EQUILATEPAL SIDES / NI THREE ACUILATER ACUILATER

A THREE SIDE POLYGON WITH ONE RICHT AND TWO AC TE ANG ES

FCU S DED
DLY UN WITH
OF PO ITE SIL'S
F \R/ LEL AN
NO PIGHT
\NGLES

A FOUL SIDE P LYGO UNITH. NE PAIR OF F RALLEL LINES AND NO RIGHT ANGLES

A OUR SIDED FOLYGON WITH FOUR EQUILATERAL SIDES AND NO RIGHT ANGLES

A IV SIDED PO YG N WITH FIVE OBTUSE ANGLES A SIX SIDED POLYGON WITH SIX OBTUSE ANGLES

A SEVEN SIDED POLYGON WITH SEVEN OBTUSE ANGLES

AN EIGHT SIDED POLYGON WITH EIGHT OBTUSE ANGLES

Name _____

#

Date____

DESCRIPTION MATCH RESPONSE SHEET

Match each figure to its attribute description.

	2	301
4		6
	3	9
10	11	12

DESCRIPTION MATCH ANSWER KEY

1A		
		SE
	8D	9 L
108		12F

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can the "START" card and follow the directions to use all cards stopping at the "END" card.

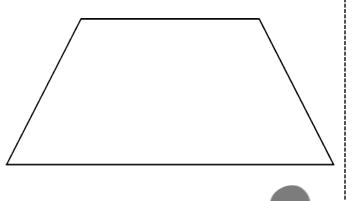
TEACHER SUGGESTIONS QR CODES

- In this activity students are asked to scan QR codes and follow the car can his by finding the deal sized to ure.
- This activity call be ured to contain a contain the contained of the contained
 - S is ligroup with reacher guidance
 - A partner activity for practice
 - ✓ Independently to assess

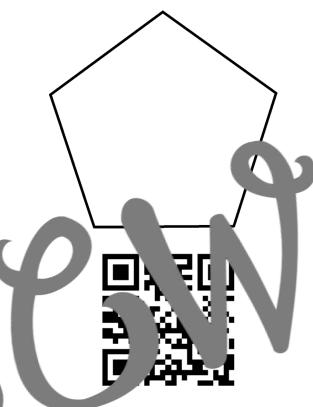
<u>__aterials</u>

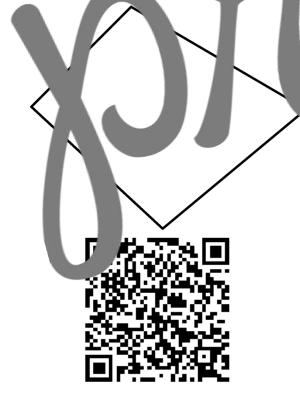
Included:

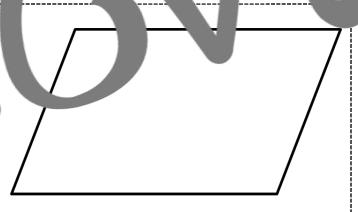
- Q Code ()rds
- N In Jude J.
- A device capable of scanning QR Codes such as a smartphone or tablet









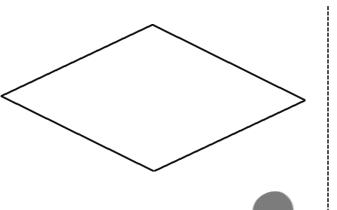




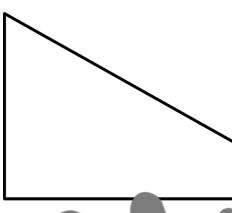




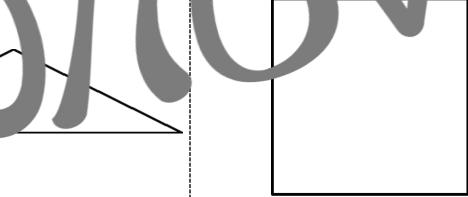




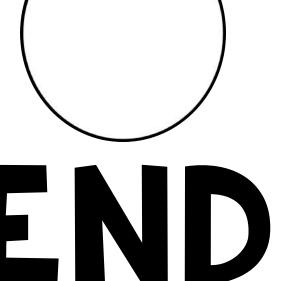














Crae a drawing out of 2D figures. Then write a procedural text describing your drawing so that a friend could recreate the same drawing.

TEACHER SUGGESTIONS MATCH MINE

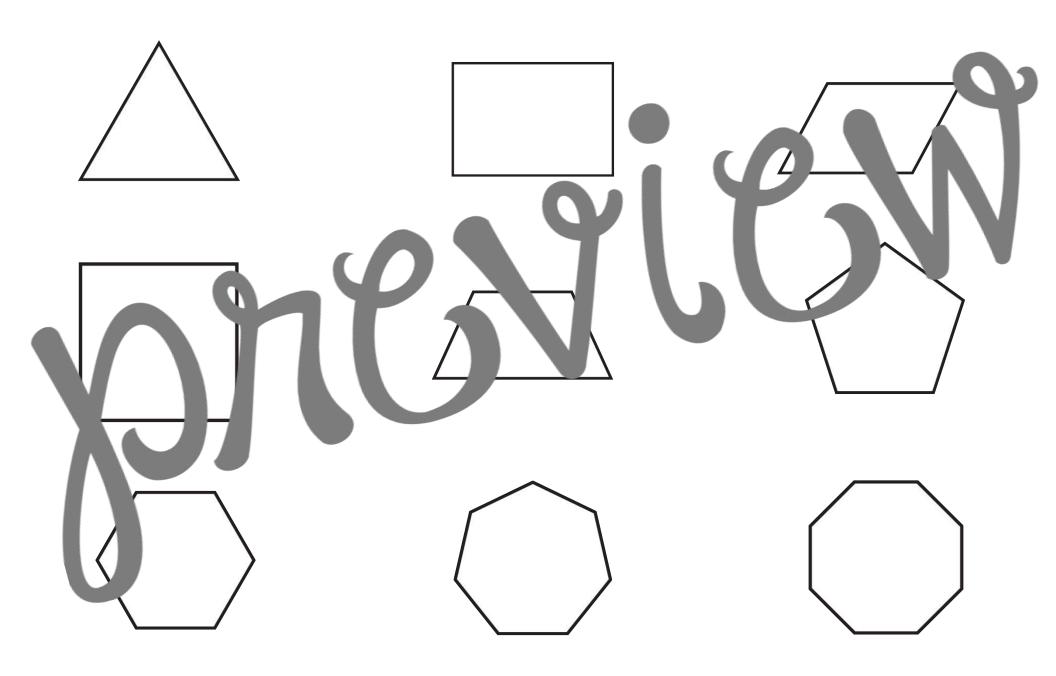
- In this activity students are asked to create a drawing out of 2D figures then write appace fural text describing the drawing so that the one else could ecreate.
- This activity active used in a company ways:
 - Small group with teacher guidance
 - A partner activity for practice Independently to assess

<u>aterials</u>

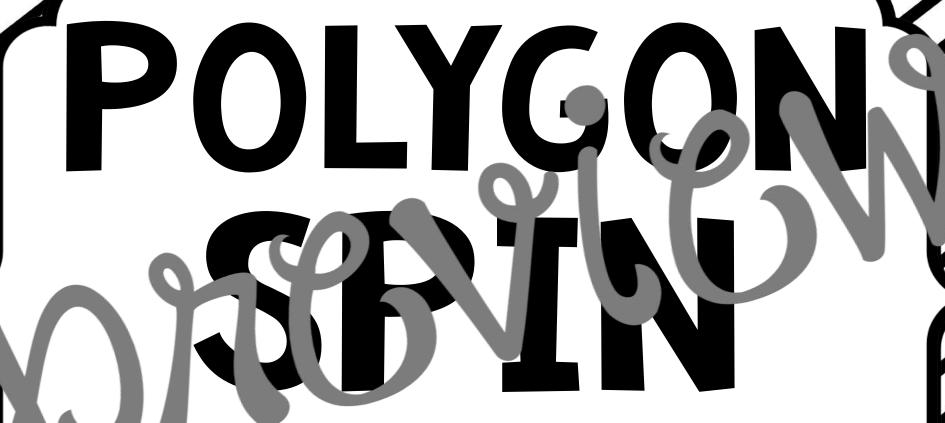
Included:

- Sh pes for acing
 - Susing mese, I would recommend copying on cardstock
- Recording Sheet
 Not Included:
- Pencil
- Answer Key

GEOMETRIC SHAPES FOR TRACING



Name		Date	
se the geometric figure	es to create a drawing	ONSE SHEET g, and then write a procedul one else could recreate it.	ral tex



Ise the spinner to determine the traits for a polygon, and then sketch it on the recording sheet.

TEACHER SUGGESTIONS POLYGON SPIN

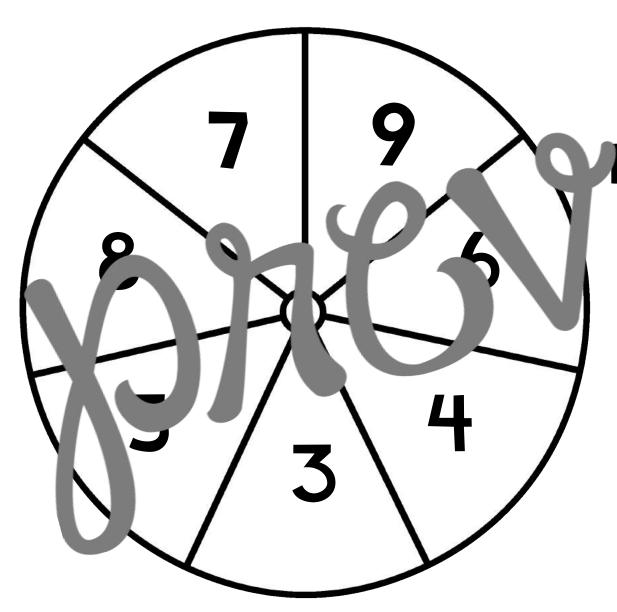
- In this activity students are asked to use a spinn to determine the attabulas for plygon, in them ke con on he recording seet.
- This activity on we used in a conjugate ways:
 - Small group with teacher guidance
 A partner activity for practice
 - ✓ Independently to assess

<u>aterials</u>

Incl ded:

- At ribute pinner Recording Sheet Not Included:
- Pencil
- Answer Key

POLYGON SPIN



ETERMINE NUMBER SIDES OF A POLYGON. THEN SKETCH THE **POLYGON AND IDENTIFY ITS** ATTRIBUTES.

POLYGON SPIN RESPONSE SHEET

Spin to determine the number of sides of a polygon. Then sketch the polygon and identify its attributes.

1 2	7
4	
8	9



lay a game to answer questions about 2D figures.

TEACHER SUGGESTIONS BOARD GAME

- In this activity students are asked to play a boat game that requires them to cas verifue tichs about "Cas verifue tich about "Cas verifue tichs" about "Cas verifue tichs about "Cas verifue tichs about "Cas verifue tichs" about "Cas v
- This cost lity on woused in a control of ways:
 - Small group with teacher guidance
 A partner activity for practice
 - ✓ Independently to assess

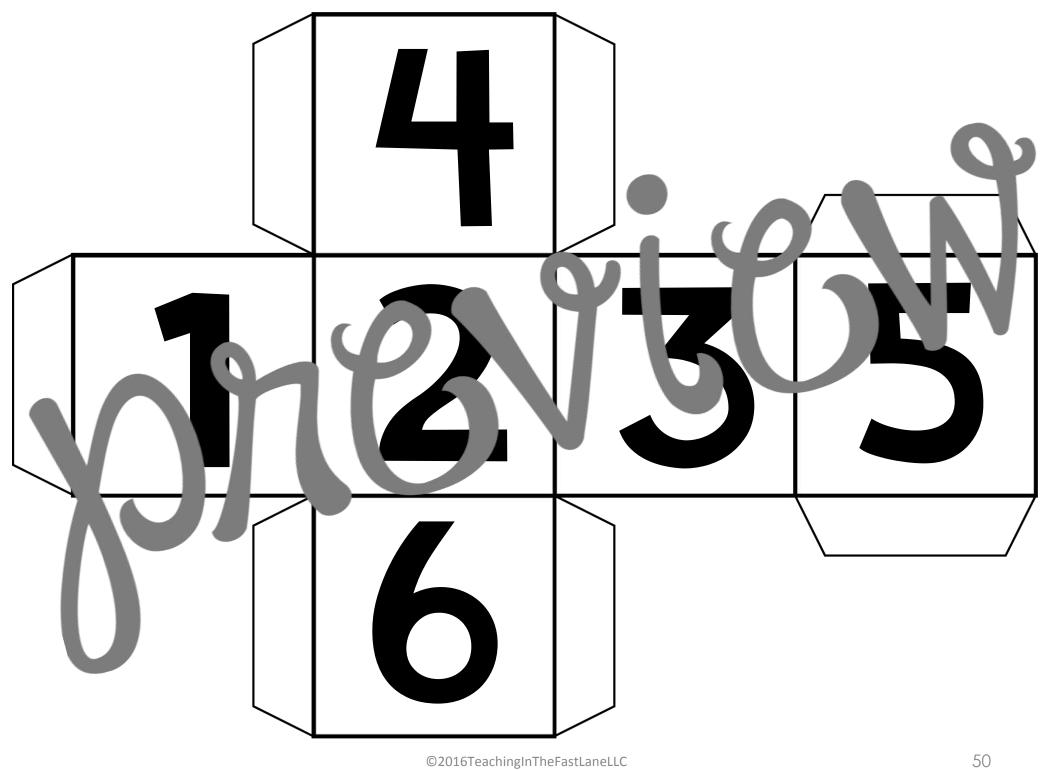
<u>aterials</u>

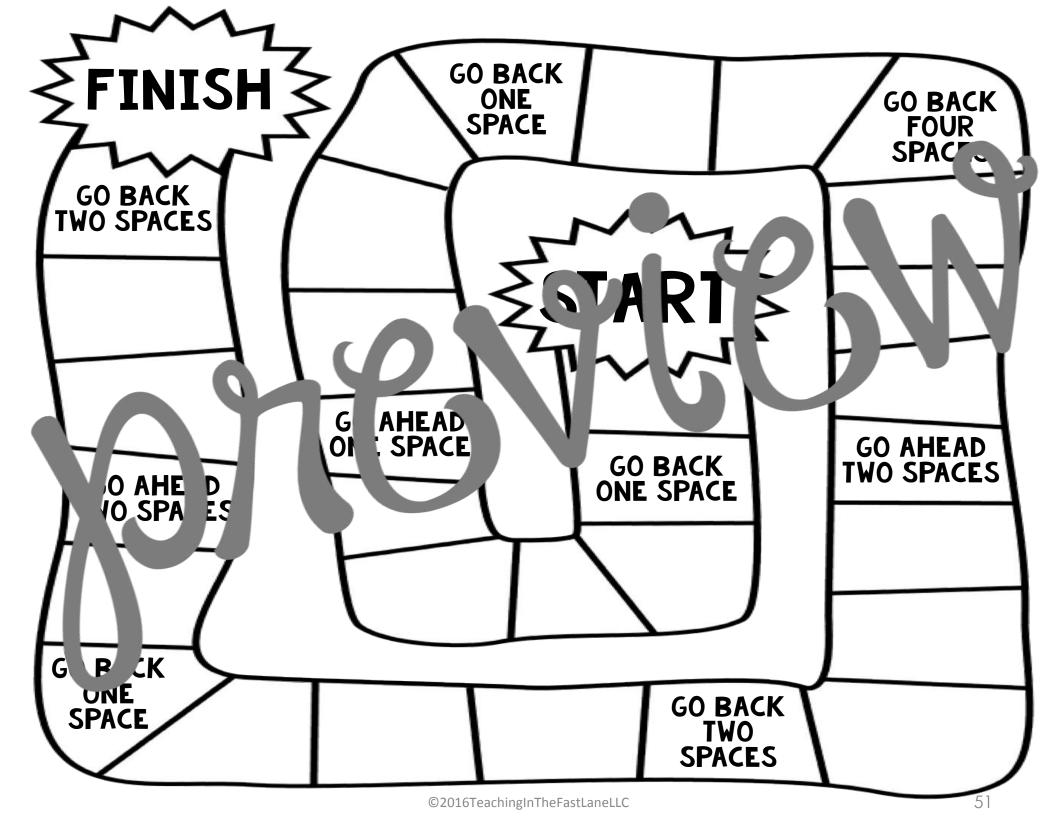
Incl ded:

- G me R les
- Game Board
- Problem Cards
- Die (can use regular die instead)
- Answer Key for Problem Cards
 Not Included:
- Pencil

BOARD GAME DIRECTIONS

- Roll the die to determine who goes first.
 - The player who rolls the hignest number go s
 first and then rotate clackvise. ("anne le"t)
- Pull a "Problem Car" and solve
 - · Another player chacks you answer
 - In correct, you on the die and move forward that nany paces.
 - If no rect, the next player takes their turn.
 - limed and on a special space, follow the lirections on the space.
- Continue play until a player reaches the finish.





a three sided polygon with equilateral sides

a three sided polygon with one right angle

a four sided polygon

a four sided polygon with four right angles and two pair o equilateral s.

5

a four sided polygon with four equilateral sides and no right angles

6

a four sided polygon with four equilated sided and suright sides

a five side to be to you with fire angle

8

a ree icad progery ith re c tus ingi

9

furside poly on with ne set c calle ne

10

a four sided parallel lines

11

a four sided polygon with two pairs of equilateral sides and no parallel sides

12

a six sided polygon with six obtuse angles

15

a seen sided polygon with seven obtuse angles

14

a three sided polygon with two equilateral sides 16

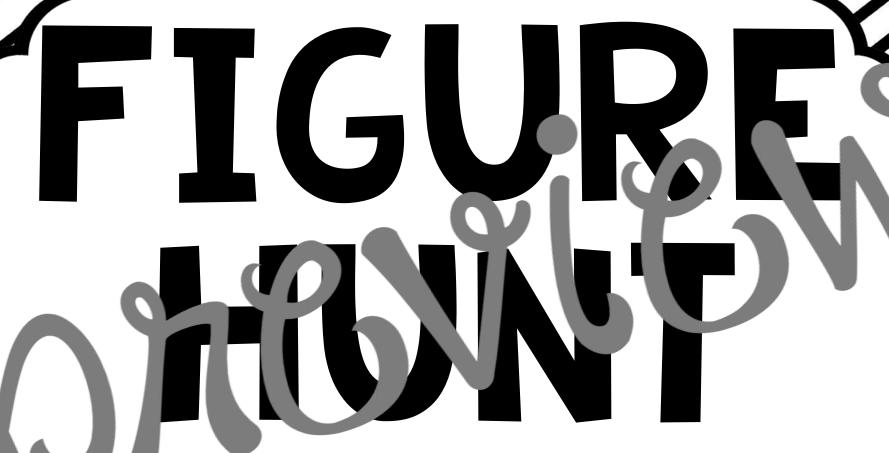
a three sided polygon with sides of all different lengths 16

an eight sided polygon with eight obtuse angles

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BOARD GAME PROBLEM CARDS ANSWER KEY

1 equilateral triangle	2 right triangle	3 quadrilatera	re tar ale
5 rhombus	s _l uare	rentan	obtuse triangle
9 10020ia	parallelogram	11 kite	12 hexagon
heptagon	14 isosceles triangle	15 scalene triangle	16 octagon



Find geometric figures in the real world, and then sketch and record their attributes.

TEACHER SUGGESTIONS FIGURE HUNT

- In this activity students are asked to find geometric figure in the real world, and han kere and record the irrationes.
- This cativity can be used in a ariet of ware:
 - ✓ Srall roup the care
 - A partner activity for practice Independently to assess

<u>aterials</u>

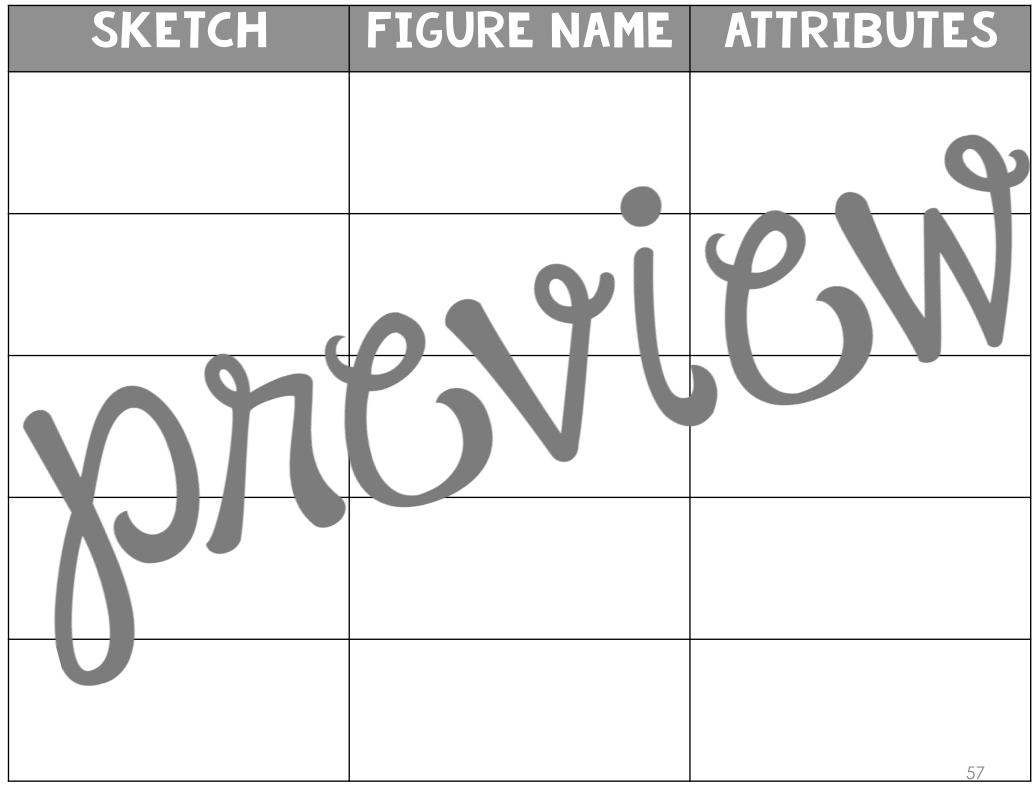
Included:

- Re ording neet
- N In Jude a:
 - Pencil
- Answer Key

Date_ Name ___

FIGURE HUNT RESPONSE SHEET Find geometric figures in the real world, and then sketch and record their attributes.

SKETCH	FIGURE NAME	ATTRIBUT
	0391	
		56



GEOMETRY AROBOT

Roll the die and follow the dections to draw a monster out of geometric figures.

TEACHER SUGGESTIONS GEOMETRY ROBOT

- In this activity students are asked to roll a die to complete a wo. It page giving them directions on how many communic figure to use when dra vintamon tell his activity on the used in a variety of way.
 - guidance
 A partner activity for practice
 Independently to assess

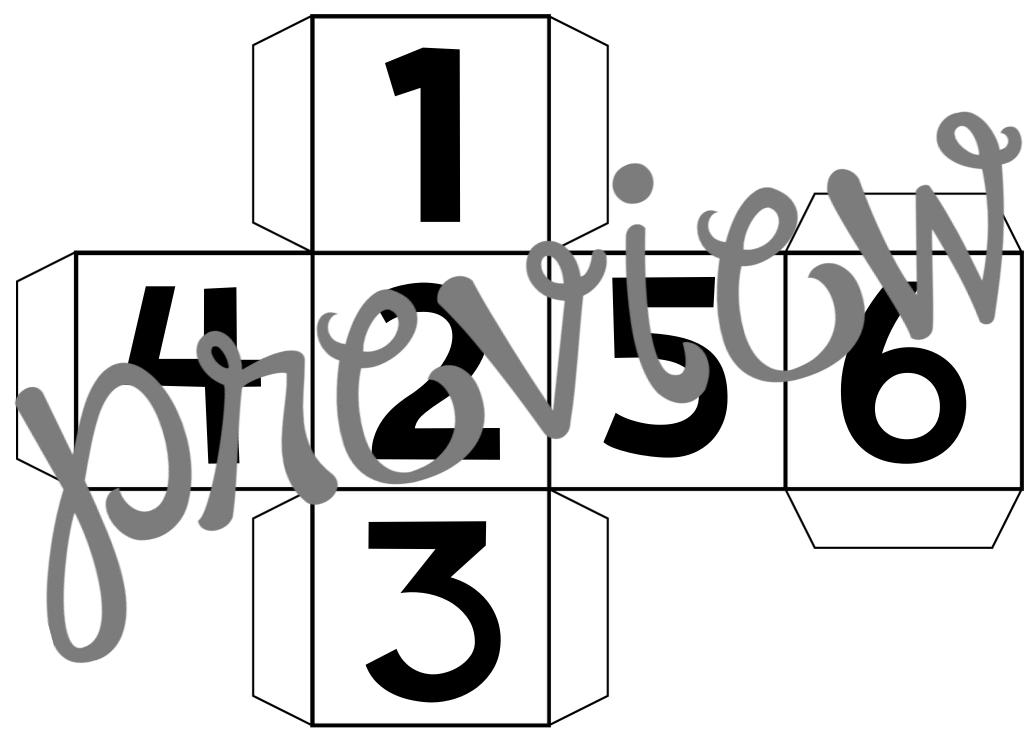
<u>aterials</u>

Included:

- W k Page
- Die
 - You can use a regular six sided die instead

Not Included:

- Pencil
- Answer Key



Name _____ #___ Date____

GEOMETRY ROBOT WORK PAGE

Roll the die to fill in the blank for each direction, and then use the back of this page or another paper to create your geometry robot

Your robot should have ___ penta nal eyes on each head.

Your robot should have ___ re this ular arms.

Your robot rould; we ___ ria gull ring

Y urrobet should have _ _ he agonal feet on each leg.

You robas loui have ___ parallelogram heads.

Your phot should have ___ circular hands on each arm.

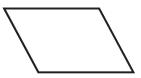
Your bot should have ___ triangular lights on its body.

All other body parts are up to you!

Name _____ #___ Date ____

TEST BRIDGE QUESTIONS

Which statement is NOT true of a 2.parallelogram?



- a. It has four sides
- b. It has four angles
- c. Thas it so of arallelines
- c It is at eas one right an e
- Vhich the foll vint is NOT conside at a partie
- c a square
- b. a trapezoid
- c. rectangle
- d a rhombus



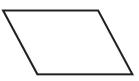
- a. c squar
- b. a penta on
- c. also ing.
- d. a parallelogram
- Which of the following statements is NOT true?

The following shape is all excl

- a. a square is a rectangle
- b. a rectangle is a parallelogram
- c. a rhombus is a rectangle
- d. a rectangle is a rhombus

TEST BRIDGE ANSWER KEY

Which statement is NOT true of a parallelogram?



- a. It has four sides
- b. It has four angles
- c. thas it is of a gralle times
- c It is at eas on right an e
- Vhich the foll vint is NOT conside as a partial alognamia
- c o-uare
- (b. a trapezoid
- c. rectangle
- d a rhombus

The following shape is all excess



- a. Caquar
- (a penta on
- c. a to ing.
- d. a parallelogram
- Which of the following statements is NOT true?
 - a. a square is a rectangle
 - b. a rectangle is a parallelogram
 - c. a rhombus is a rectangle
 - d. a rectangle is a rhombus

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