Classwork 4-2-2020

Polygon Attributes

We have learned the basics of polygons, let's learn more!

Good morning and hello Third Graders from Mrs. Cronin! Today is Thursday 4-2-2020

Where To Find Your Work: https://lynncronin.weebly.com/ 4-2-2020 Grade 3 Polygon Attributes

Learning Objectives: More Polygon Attributes

Learning Activities: Please work through the PowerPoint then play the polygon game How I will see/check your work: Email me!!

How We Communicate: email lcronin@wtps.org

MA.3.MD.D.8, MA.3.G.A, MA.3.G.A.1, MA.3.G.A.2, MA.3.OA.C, MA.3.OA.C.7

Yesterday we learned about polygons. A polygon is a special kind of shape that is 2-D, has only straight lines and is closed.

Today we will learn about other attributes of polygons.

An <u>attribute</u> is a description. When you describe a shape like a polygon you use specific attributes like side size, equality of sides, angles, and vertices.

We will explore each attribute today and then play a game to practice.



Each polygon is made with straight lines. One way to measure a polygon is to measure the length of its sides.





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Most of the time we don't actually measure the side lengths of a shape, we just count how <u>many</u> sides are the same length.



When we play shape capture we will see a screen that looks like this:



When we play shape capture we will see a screen that looks like this:



Can you find a shape that has three sides that are the same length?

Perfect!



The equilateral triangle has three sides that are the same length!

Try another one...



Can you find shapes that have two sides that are the same length?

Try another one...



There are a lot of them!

Some even have two pair that are the same. The kite for example has the two top the same plus the two bottom are also the same.



Try this one!



Can you find all the shapes that have two pair of same side lengths (like the kite)

Try this one!



Can you find all the shapes that have two pair of same side lengths (like the kite)

Let's look at another attribute

Star

Triangle

Square

Vertices

That's the spot where sides meet on a shape. You could also call it a corner or a point, but in math we call it a vertices. Vertices is the word that we use for more than one. One is called a vertex.

Vertex Vertices

I love this word! It might be my favorite math word! One point on a shape is a vertex Click below to hear it: https://www.youtube.com/watch?v=2HnvWbCMnF4

More than one point on a shape is a vertices Click these videos to learn how to say it: https://www.youtube.com/watch?reload=9&v=sJaYtraUu0E

Each shape has different numbers of vertices.



Vertices

That's the spot where sides meet on a shape. You could also call it a corner or a point, but in math we call it a vertices.

(One point on a star is called a vertex. All the points are called vertices.)

How many vertices does this shape have?

How many vertices does this shape have?

6!



Does it follow the polygon rules?



Does it follow the polygon rules?



Does it follow the polygon rules?



Does it follow the polygon rules?

And finally, what is an angle?



Shapes are made with lines that touch at the corners.

The angle made by those two lines is measured by how far apart they are





The first angle is a right angle. The measure from one line to another is 90° (90 degrees)

The second angle is less than 90° - it is probably about 30°

The angle made by those two lines is measured by how far apart they are



You could think of an angle as the opposite side of the vertex.

There are three types of angles.



<u>Right</u> – a square angle is 90°. It is the same as the corner of a paper or the corners on a square.

<u>Obtuse</u> – an obtuse angle is bigger than a square angle.

<u>Acute</u> – an acute angle is smaller than a square angle. (I think of it as a cute little angle!

We will review angles later!



Right now the most important angle is a right angle.

A right angle is 90°

Let's Play Shape Capture!

Click on these words

https://connected.mcgraw-

hill.com/em4t/emgames.game.do?gameId=X3S9JRLBFMO5J3ZF65DPZ51CMM&familyId=1J9KPPZFS5PB8HP375W1H51Y78&gameType=s ingle-player&categoryId=JC8PY2PS1XEHKKB1K49LWQR9CE&grade=3 Don't forget to complete your Quizlet today

email me to tell me how you did on Shape Capture!

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