

# Learning Activity for Polygons 5<sup>th</sup> Grade

**Objective:** The students will be able to classify polygons by number of sides and angles.

**Materials:** examples of polygons, pattern blocks

## Polygons

Polygons, Polygons are all multi-sided figures  
Each side intersects 2 others,  
Some are small and some are bigger

Polygons, Polygons – are closed shapes and many-sided  
Each side intersects 2 others  
But the shape is not divided

Take your pencil, draw a closed shape,  
Count how many sides are on it  
Anything works but a circle,  
It's so easy once you've done it

Regular Polygons – means that all sides and angles are equal  
If you draw two the same, you might say  
That your first one has a sequel

Polygons, Polygons,  
They're the shapes everywhere around you  
Each side intersects 2 others,  
But Polygons are never round, No!

SPOKEN: (4 beats per line)  
A Triangle has 3 sides  
A Quadrilateral has 4 sides  
A Pentagon has 5 sides  
A Hexagon has 6 sides

A Heptagon has 7 sides  
An Octagon has 8 sides  
A Nonagon has 9 sides  
A Decagon has 10 sides

Polygons, Polygons are all multi-sided figures  
Each side intersects 2 others,  
Some are small and some are bigger

Polygons, Polygons – are closed shapes and many-sided  
Each side intersects 2 others  
But the shape is not divided

Every angle on a Regular Polygon  
Is the same degree of measure  
And the sides are all the same length  
When you join them all together

Polygons, Polygons,  
All their sides edges are always straight lines  
Everywhere that you see Octagons Pentagons  
They're painted red, and they call them Stop Signs!

Polygons, Polygons,  
They're the shapes everywhere around you  
Each side intersects 2 others,  
But Polygons are never round, No!

## **Procedure:**

- 1) Play the song.
- 2) Define a polygon. Discuss how polygons are identified.
- 3) Teacher led discussion on attributes of a regular polygon.
- 4) Repeat the song. Discuss what polygons are not.
- 5) Using pattern blocks students will create the polygon requested by the teacher. Repeat 2 more times.
- 6) Students will create a tessellation drawing that contains at least 3 different polygons from a triangle to a decagon to display in class.

**Evaluation:** Teacher observation during discussion and work time. Extension: Students will find polygons in pictures to bring to class.