

## **PICTOMETRY ONLINE LESSON PLAN FOR 6<sup>TH</sup> GRADE MATH**

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### **OBJECTIVE:**

Students will use the Pictometry Online program to find and measure geometric shapes in buildings they see everyday.

### **STANDARD:**

**M6.C.1.** Analyze characteristics and properties of two and three dimensional geometric shapes and demonstrate understanding of geometric relationships.

### **METHODS:**

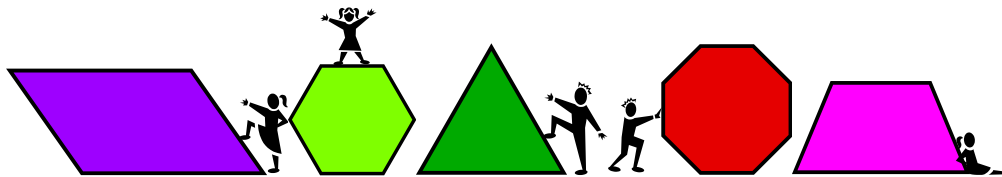
- Introduce equations to find the area of geometric shapes.
- Demonstrate how to use the Distance Tool on the Pictometry Online program.
- Hand out worksheets and login information for the lesson.
- Monitor students as they complete the activity.
- Collect worksheets and discuss activity.
- Pass out "Exit Slips." (1 or 2 questions about the formula for area)

### **MATERIALS NEEDED:**

If students are working in pairs, each pair needs access to a computer with the internet. If each student is working alone, then every student needs a computer with the internet. Also, the students need the Pictometry Online Worksheet to complete.

### **ASSESSMENT:**

The students will be assessed on the completion of the Pictometry Online Worksheet and "Exit Slips."



### PICTOMETRY ONLINE WORKSHEET

NAME: \_\_\_\_\_ PERIOD: \_\_\_\_\_ DATE: \_\_\_\_\_

Go to <https://pol.pictometry.com> Login using the information your teacher provided.

1. Look at the science center. Find the large **square** on the roof.  
 Using the distance tool what is the **length** of the square? \_\_\_\_\_  
 Using the distance tool what is the **width** of the square? \_\_\_\_\_  
 Using the equation for area, find the **area** of the square. Show your work!
  
2. Now find the “E-motion” cone on the roof of the Science Center.  
 Using the distance tool, what is the **diameter** of the circle? \_\_\_\_\_  
 Using the equation for area, find the **area** of the circle. Show your work!
  
3. Now find the **parallelogram** that makes up the solar panel on the side of the building.  
 Using the distance tool, what is the **base** of the parallelogram? \_\_\_\_\_  
 Using the distance tool, what is the **height** of the parallelogram? \_\_\_\_\_  
 Using the equation for area, find the **area** of the parallelogram. Show your work!

