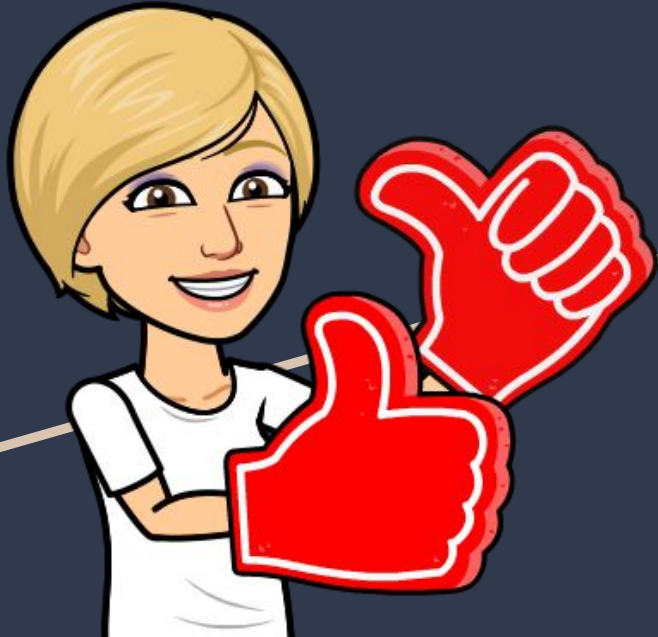


Today's Materials



- calculator
- pencil

Stained-Glass Windows

(optional lesson)



Lesson 11

CCSS Standards: Addressing

- 7.EE.B.3
- 7.G.A.1
- 7.G.B.4



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Let's use **circumference**
and **area** to design stained
glass windows!



Today's Goal

- I can apply my understanding of area and circumference of circles to solve more complicated problems.

Cost of a Stained-Glass Window

Activity 1

- Think Pair Share
- Stronger and Clearer Each Time
- Three Reads
- Discussion Supports

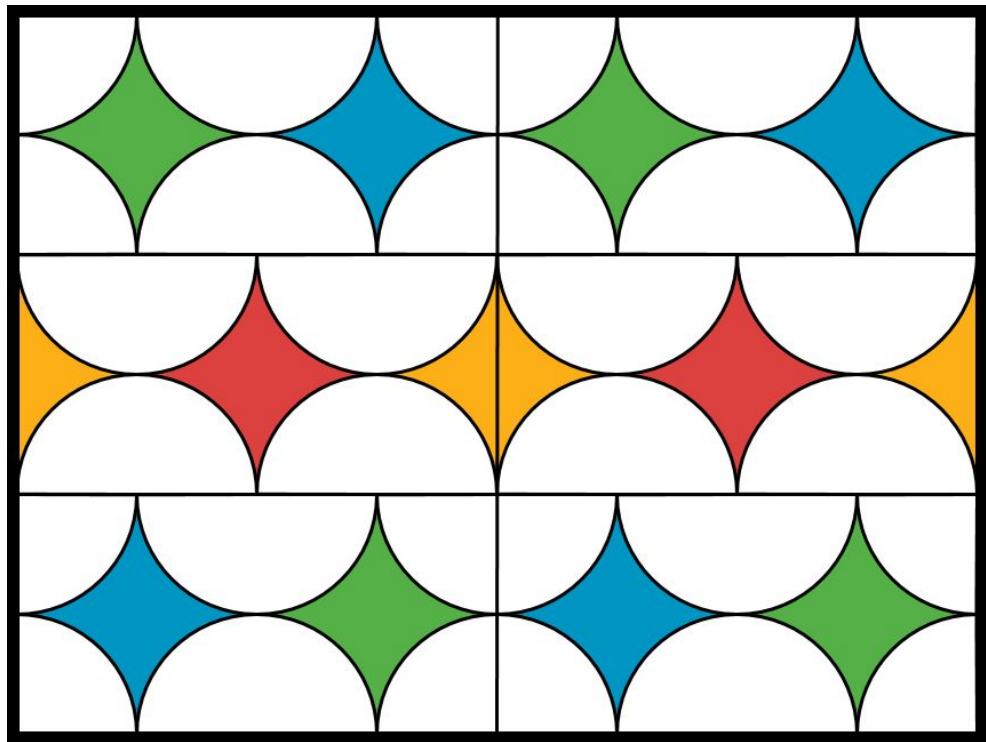


Work on this activity, beginning
on your own. (5 min.)

**Discuss and revise your ideas
with your team!**

Move into groups of 4 and discuss:

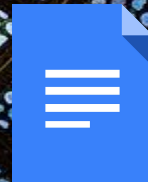
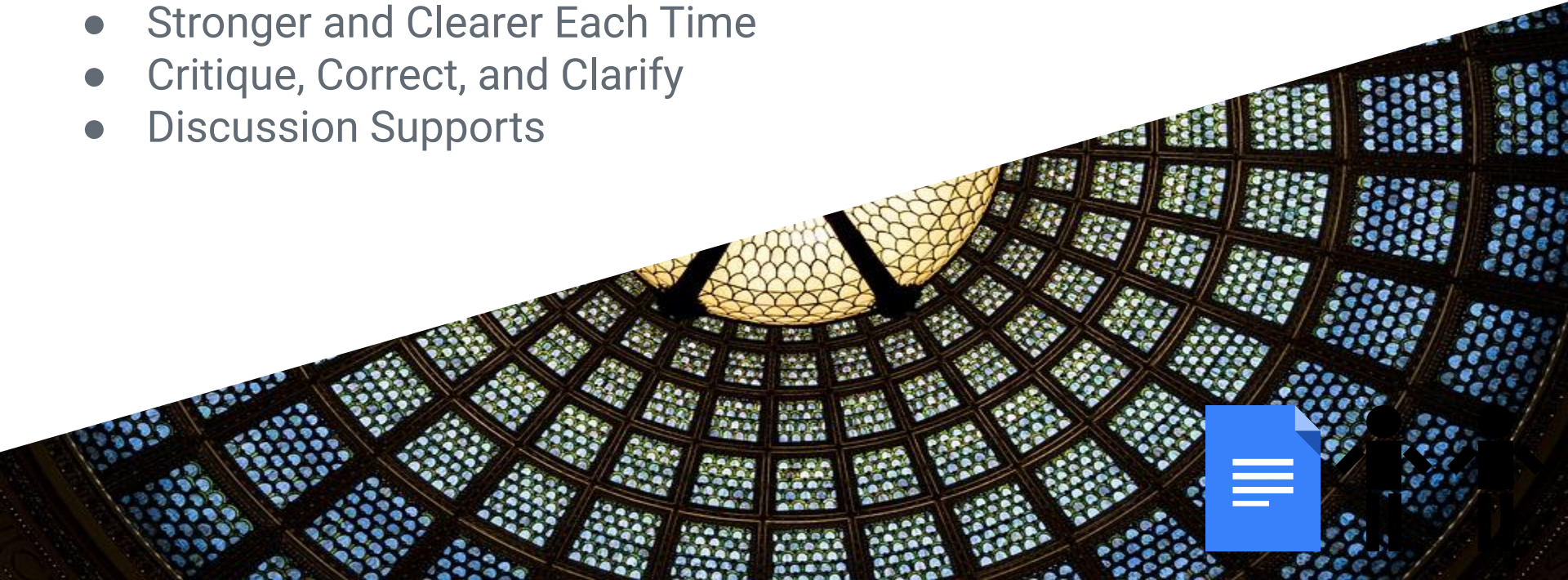
- Did you all get the same answer? Why or why not?
- Did you use the same strategy? What was the same or different about your work?
- Did you make any assumptions as you worked on the problem?



A Bigger Window

Activity 2

- Stronger and Clearer Each Time
- Critique, Correct, and Clarify
- Discussion Supports



A local community member sees the school's stained glass window and really like the design. They ask the students to create a larger copy of the window using a scale factor of 3. **Would \$450 be enough to buy the materials for the larger window? Explain or show your reasoning.**

Invent Your Own Design

Activity 3

- Group Presentations



Draw a stained glass window design that could be made for less than \$450. Show your thinking. Organize your work so it can be followed by others.

Group Presentations



Today's Goal

- I can apply my understanding of area and circumference of circles to solve more complicated problems.