## Unit 1 Lesson 2: Constructing Patterns

### 1 Math Talk: Why Is That True? (Warm up)

#### Student Task Statement

Here are 2 circles with centers $A$ and $B$.



Based on the diagram, explain how you know each statement is true.

The length of segment $EA$ is equal to the length of segment $EB$.

Triangle $ABF$ is equilateral.

$AB=\frac{1}{3}CD$

$CB=DA$

### 2 Make Your Own

#### Images for Launch



#### Student Task Statement

Use straightedge and compass moves to build your own pattern using the circle and radius as a place to start. As you make your pattern, record each move on a separate sheet of blank paper. Use precise vocabulary so someone can make a perfect copy without seeing the original. Include instructions about how to shade or color your pattern.



### 3 Make Someone Else’s

#### Student Task Statement

Follow the instructions precisely to recreate the pattern.





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