

## Tessellation Activity

You will create a tessellation on a 9 x 12 piece of drawing paper (as provided by Mrs. Bailey). You may use any of the methods that are shown in the subsequent papers or use an alternate method, as long you draw the tessellation by hand.

**Types of Symmetries:** If the tessellation continued indefinitely:

Translational – translating the plane by vector would preserve the tiling. Vectors must be on different lines to be considered distinct.

Rotational – rotation of the plane by a certain angle and all multiples of that angle would preserve the tiling.

Reflective – reflection across a linear axis preserves the tiling.

The tessellation is due on Thursday, January 17, 2019 in class.

Item	Description	Points
Symmetry	The tessellation must have, at least, two different types of symmetries. The accuracy of the symmetry is important to gaining full points. 5 points for each: <ul style="list-style-type: none"><li>• translational symmetry in a distinct linear direction</li><li>• reflective symmetry over a new axis of symmetry</li><li>• additional type of symmetry</li></ul>	20 points
Intricate Details	Intricate details should be observable. The details may be inherent on the boundary of the shape to be tessellated, or added to the interior of the tessellated shape by drawing or coloring. In other words, simple tessellated shapes will need detail inside and complicated tessellated shapes need not have interior detail	20 points
Color	The entire tessellation must be colored. Attention to accuracy of coloring and of coloring will be noted	20 points
Color Symmetry	10 points for each symmetry that still holds in color.	20 points
Construction during classtime	The amount of effort that student displays in class on the tessellation will be noted.	20 points

Please glue or tape this paper to the back of your tessellation when it is turned in on Wednesday.

ARTIST: \_\_\_\_\_ (your name here)

DATE: \_\_\_\_\_