**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| Rubric for Tessellation Project – Grade 8 Math – Crabapple MS |
|  | Beginner – 3  | Intermediate – 4  | Advanced – 5  |
| **Tessellation****Pattern** **(tile/template)** | **•** Student uses a shape that does not tessellate**•** Student uses a shape with no transformations to edges or transforms edges of the shape incorrectly | **•** Student makes 1 cut in the template **•** Studentuses a shape and transforms one or more edges correctly to create a basic pattern | **•**Student makes 2 cuts in the template **•**Student uses a shape and creatively and accurately transforms more than one edge correctly  |
| **Tessellation****Tracing** **(movement)****• translation****• reflection****• rotation** | **•** Manipulation of the shape using transformations is incorrectly executed**•** Manipulation of the shape does not completely cover the plane or gaps or overlaps may be present **•** Errors in design pattern coverage show a lack of understanding of tessellations**•** Product quality needs to improve | **•** The shape is manipulated within the grid so that the pattern is generally consistent throughout and there are few gaps or overlaps**•** Design pattern coverage is more than 80% of the plane but consideration for balance may have been overlooked**•** Design pattern coverage is of good quality  | **•** The shape is effectively manipulated within the grid so that the pattern is consistently neat and precise throughout and there are no gaps or overlaps**•** Design pattern coverage of entire plane shows thought, preplanning, originality and balance**•** Design pattern coverage is of excellent quality and shows a clear and accurate understanding of tessellations |
| **Artistic****Design Element****(Color)** **Creativity**  | **•** Two or less colors used in tessellated design; may be randomly placed rather than in a predictable pattern**•** No additional lines, colors, or features are added to tiles or if added, are inappropriate or poorly executed | **•** Three colors used to produce a predictable pattern**•** Some additional lines, colors, or features are added to tiles but may not be in a recognizable consistent pattern to enhance the design | **•** Four or more colors used to produce a creative, original pattern**•** Additional lines, colors, or features are added to tiles in a clearly recognizable pattern to enhance the perception and compliment the design |

**This project will be worth a QUIZ grade. Please turn in the template and this rubric with your tessellation. Due Date: Friday, May 10th**

**TOTAL SCORE: \_\_\_\_\_\_\_\_ out of 20 points PERCENTAGE:**