**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:**