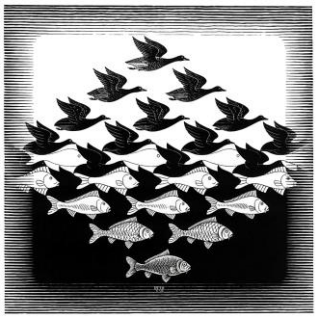
Let's Tessellate!

Geometry Project



Name: _____

Date: _____ Period: ___

After learning about tessellations, you will be creating your own unique tessellation. Complete this project according to the project expectations, answer the questions provided, and attach this rubric to your final piece. This project is worth **60 points**.

Student learning objective: Students will create a tessellation that demonstrates their knowledge of the properties of geometric transformations, such as translations, rotations, and reflections.

Project Expectations:

- The appearance of your tessellation should be neat. Your tessellation (pattern) should cover the entire page (no gaps or unintentional white spaces).
- Use one or more transformations to create an Escher-esque Tessellation on an 8.5" x 11" sheet of paper.
- It is preferred for you to use polygons to complete your tessellation. Use the transformations (rotations, reflections, translations) to "tessellate" the page.
- However, you will earn more points for attempting a more difficult tessellation similar to the works of M.C. Escher.
- The final piece of work needs to have plenty of color, be neat, and have no white spaces.

Q & A Section:

1. What is the idea/theme behind your tessellation? _____
   _____
2. What polygons or images did you start with and how were they altered? _____
   _____
   _____
3. What types of transformations did you use? _____
   _____
4. In your opinion, was M.C. Escher an artist or mathematician? Why? _____
   _____
5. Where can you find some real world example of tessellations? _____
   _____