

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Block: \_\_\_\_\_

# C6 Polygons for Tessellations **Project**

Math 8 Ms.Stromgren

*PLO C6 Demonstrate an understanding of tessellation by:*

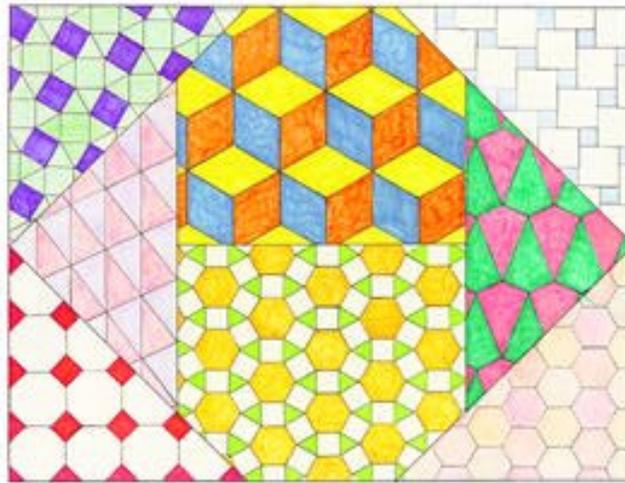
- explaining the properties of shapes that make tessellating possible
- creating tessellations
- identifying tessellations in the environment

## **Large Poster (choice 1) or Booklet (choice 2)**

*Note: Choice 1 will earn more points than choice 2. It's more creative!*

**Large Poster/Choice 1:** Use a full sheet of white **poster** paper, and divide it into 4 - 8 polygon shaped regions in any way you wish, but make the regions large enough to see the full pattern of your tessellations. The example that you see at the beginning of this handout was divided into 8 regions; you may do as few as 4 if you wish.

For example:



If you do not have poster paper, you will have to do choice 2. You may **not** tape together 4 sheets of paper in order for it to equal up to the size of a sheet of poster paper.

Title each of your tessellations either on the back or include a title page and a table of contents. Tape this to the back of the poster paper.

Be creative. This means: Don't just divide your poster paper into rectangles and/or squares.

**Booklet/Choice 2:** Using white computer paper, draw one tessellation per sheet of paper. Do **4 - 8** different tessellations. Staple them together like a book. Include a title page and a table of contents with the names of your tessellations and page number on the front of the packet. (Your book will need to be at least 6 pages long, or at most 10).

## **Details for earning points for Tessellation Project**

1. Earn extra points by doing choice 1 in a clever manner. If you do the booklet/choice 2, you won't be able to earn these points. (10 pts)
2. For your tessellations: Your pattern can comprise of any combination of shapes (no circles allowed).
  - At least one must use two or more different shapes. (10 pts)
  - At least one must use three or more different shapes. (10 pts)
  - Use different sizes of the same shape in one of your tessellations. (5 pts)
3. Then, one of the following depending on how many tessellations you completed:
  - 4 different tessellations (5 pts)
  - 5 different tessellations (10 pts)
  - 6 different tessellations (15 pts)
  - 7 different tessellations (20 pts)
  - 8 different tessellations (25 pts)
4. Add color and design. (20 pts)

**Total mark possible (80 points)**