

## VISUAL ARTS A

# TESSELLATION PHOTO HUNT

Due 3/25

**LEARNING TARGET:** I will identify tessellating shape patterns in my everyday surroundings.

**SUPPLIES:** Cellphone & Chromebook



Tessellations are shapes, mostly polygons, that closely fit together in a repeating pattern without gaps or overlapping much like a puzzle. Tessellations show repetition by taking a shape and repeating it to form a pattern. Tessellations are all around us in the most unexpected places. They can be found in nature, man made structures and in art.



Honeycomb

Pegasus, 1969 M.C. Escher



Epcot center, Disney World Florida



## ASSIGNMENT:

- Using your phone (or a borrowed one) find five tessellating patterns from your surroundings and take photos of them. These can be any shapes that fit together like a puzzle without gaps and have a repeating pattern.
- Once you get the photos how you want them, email them to your student email.
- Copy/Paste each photo into Google Slides or Google Doc.
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For more information on tessellations:

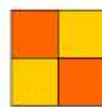
<http://www.tessellations.org/tess-what.shtml>

To create tessellations using shapes:

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Tessellation-Creator/>

### shapes that will tessellate

Congruent shapes are shapes of exactly the same shape and size. Congruent shapes that tessellate include:



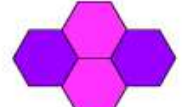
squares



rectangles

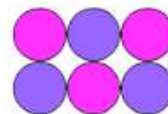


equilateral triangles

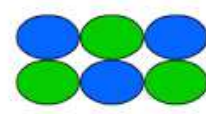


hexagons

### shapes that will not tessellate



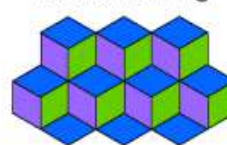
circles



ellipses

### interesting tessellations or tilings

rhombille tiling



floret pentagonal tiling

