

Tessellations: Math Meets Art Part 1

By: Dr. Johnson
School: Edstar Analytics Math

What Student Will Need:
Computer, phone, or any device with internet access An account in the communication resource, connected to me as the teacher PDF Handout (created from this lesson form) Other: Printer to print the handouts.
Lesson Objective:
The students will learn what tessellations are. They will learn math vocabulary in the context of tessellations. This will lay the ground work for recognizing patterns in both math and art.
Details:
Review:
<u>Review Content</u> Watch the video that gives the overview of this lesson. Then look through the examples of tessellations that were done by a famous artist who was also a mathematician. His name is M C Escher. The lesson will take about 45 minutes to complete. There are several parts to this lesson. You will learn a lot. <u>Examples of Tessellations: MC Escher</u>
Lesson Flow:
<u>Lesson Content</u> The vocabulary that will be used in this lesson. Instructions for Student: Download the vocabulary list. Read over the words and look at the examples. This is the vocabulary we will use for this lesson.
<u>Self-Directed Resource</u> Instructions for Student: After you have studied the vocabulary, use the flashcards to help you learn these words. Use the flashcards until you can answer them all without having to look.

Communication With Student

The students need to have accounts in FlipGrid so that their data is saved, and you can give them feedback. You will be able to select a few of the video responses of the students to share with the class. You can look at this using student ID "12345". My prompt is:

Find a pattern in your house of something that tessellates. Tell me what it is or show me.

Instructions for Student:

Answer one of the prompts.
Type "12345" to access.

Additional Support

Instructions for Student:

Watch how the artist MC Escher made tessellating lizards.

Deep Dive/Challenge

Instructions for Student:

Play around with this tessellation creator. Have fun!

Collaborate with Teachers:

Collaboration with Teachers

Assessment Tool:

Assessment Tool

Additional Links:

How to make a tessellation.

What is a Tessellation?

This video shows again what a tessellation is, and how to make one.