

# ARTS LINK

## Lesson Plan

**Title of Lesson:** Polygon, making a geometric Bowl out of Triangles

**Grade:** 2nd & 3rd

**Artist:** Stephanie Young

**Art Form:** Visual

**Academic Standard:** Mathematics

Academic Content Objective:	The student will:	Assessment:
Polygon Geometric Tile Pattern is taken from African American History Quilts.	Learn basic information about meaningful quilts and how they were used to signal safety to people running to freedom.	Finished Project: Geometric bowl/vase made of construction paper and pieced together.

### Summary of the Lesson:

- Attention, Review, Teach and Support. SWBAT: Color black and white copy of geometric vase in 2 -3 colors. Using markers or crayons. Cut out triangles from black and white printed template of the geometric bowl /vase. Trace cut triangles from colors you would like to use. Piece together to build a geometric bowl/vase on the 8x10 sheet of paper.
- Creating a triangle vase quilt design with 18 triangles and 2 rectangles
- Use a sequence of numbers to create a pattern in color for triangle vase in balanced colors.
- Differentiate for some in one – 2 color or one color
- Producing a fun and interesting piece of art while focusing on a triangle turned up and down
- Plan your vase pattern design in number equations or geometric sequence to get a balanced and interesting work of art.

## ARTS Lesson Structure

### Attention

How will you prepare the students for the lesson? How will you elicit their attention?

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- Videos of historical and modern-day quilt designs will be shown, and meaning given.
- Teach about polygons and how they tile together. Triangles created the north star symbol on the underground railroad quilts. Many meanings are given to the geometric shapes today.
- Demonstration will be given with precut triangles in order to make the bowl/vase
- Precut triangles can be given or students can make their own
- Everyone can practice putting the triangles together based on a number problem

## Review

What content will you review in both academics and the arts to prepare the students for the lesson?  
How will you connect stored information?

### Art Vocabulary:

- Geometry
- Secondary
- Primary
- Polygon
- Septagon
- Triangle
- Balance
- Vertices
- Parallelogram
- Contrast
- Pattern
- Geometric Sequence
- North Star
- Diagonal
- Truncated
- Rectangle
- Equal

## Teach

Summarize the steps you will take to teach the lesson?

### Materials:

- 1 copy of black and white polygon vase for actual size
- 1-3 sheets of 5x10 colored paper to cutout triangles
- Some colors will be precut into triangles
- 1 sheet of 8x10 colored paper for background
- 1 pair of Scissors
- 1 glue stick

Cut out one triangle to trace colors needed

Example:

6 yellow , 8 orange ,4 dark orange

Start with bottom Base, 2 end rectangular pieces in same color of choice, place at close equal distance shown in the copy Template.

- 4x2 Colors =8 pink colors and 8 purple colored triangles
- 9x2= 16 Blue colors and 2 yellow colored triangles
- 6x2=12 Red colors and 3x2 =6 White colored triangles



**Create your own number vase:**

- 3-4 Flowers can be in any color
- Flower stem suggestion is green
- Students can choose the 2-3 colors of their choice. colors can be used together to make the geometric bowl with flowers
- 2-3 colors are suggested