

Geometric String Art

My students summarized the value of this project:

'Symmetry can create beautiful designs.'

'learned how lines can make intricate curves.'

'I learned how to center my art work and make it perpendicular to the base.'

Curriculum/State Standard

Slope, distance, parallel and perpendicular lines, transformations, figures, similarity and congruence.

Overview

Geometric string design helps students' internalize the concepts between math and art by focusing on symmetry of design and color, incorporating rotations, transformations, reflections and perpendicular lines in the design.

Objectives

- The student will learn color symmetry, rotational symmetry and design symmetry.
- The student will learn how to center the art and make his/her design perpendicular to the base.

Materials

Needles, thread, mat board, masking tape, scissors, long straight edge, pin holes punchers

Readiness Activity

Symmetry, Rotations, Perpendicular lines

Strategies/Activities

The student's first introduction to Geometry String Design is with basic line patterns using paper and colored pencils.

Once the students have mastered the basics, they will create their own design or choose from a variety of patterns.

The students center their colored pattern on an 8"x8" and 10"x10" square mat board so the design and color symmetry are perpendicular to the base.

Student will need about two days of class time to 'sew' their design using at least two different colors.

Culminating Activity

Productive, creative geometry.

Evaluation

Evaluation was based on intricacy of design, design symmetry, color symmetry, complementary colors, centering, and perpendicular placement.

9-10

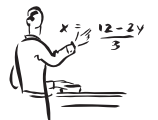
GRADE LEVEL



ARTS



LANGUAGE



MATH

Misc

MISCELLANEOUS



SCIENCE



HISTORY



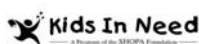
SOCIAL STUDIES

2

WEEKS

\$200

TOTAL BUDGET



THIS WINNING LESSON PLAN WAS SUBMITTED BY:

Dotti Harness
Homer High School
600 East Fairview, Homer, AK 99603