

Styrofoam Cup Design

Middle School and High School

Lauri Thorley and Adrienne Lessard

Objective: Students will examine and research the effects of styrofoam on human health and the environment, students will generate ideas for alternatives. Students will create a design to inform viewers about these affects on a cup, using a variety of line, texture, and repeating patterns. Students will explore value (light and dark) through creating marks and repeating patterns.

Topic Areas:

Why not use styrofoam?

Effects on human health.

Effects on environment. Effects on animals.

Alternative materials that are sustainable.

How can you change peoples habits from using styrofoam or polystyrene?

Materials:

Sharpie markers

Styrofoam Cups and Eco-Friendly - Biopolymer Cups (EarthChoice)

line, texture and pattern handout

scrap paper or sketch book

computer and projector for research and presentations

resources: <http://iamboey.com/>

Day one: Students will create multiple line, texture and repeating patterns in sketch book or scrap paper provided. Teacher will provide students with images of cup art by <http://iamboey.com/>

Day two: Students will be broken up into groups and each group will choose or be provided with one of the above statements. Students will research styrofoam its effects and alternative solutions as well as create a short keynote presentation.

Day three: Students will present keynote slides to class. Students will begin sketching ideas for cup design.

Day four, five and six: Students will complete sketches and begin drawing on cups. Four groups will be given styrofoam cups and two groups will be given Bio-Polymer cups.

Day Seven: Students will participate in a class critique, turn cups in for grade with a completed self-evaluation.

Cup Designs Handout

Why not use styrofoam or polystyrene?

Effects of styrofoam or polystyrene on human health.

Effects styrofoam or polystyrene on environment.

Effects styrofoam or polystyrene on animals.

Sustainable alternative materials to styrofoam or polystyrene.

How can you change peoples habits from using styrofoam or polystyrene?

Your group will be given one of the above topics to display in images and patterns on either a styrofoam cup or biopolymer cup.

Step 1 - Complete the handout, Line, Texture and Pattern. Think about creating several different repeated patterns. Use different shapes - geometric or organic. Create the shapes and patterns with different widths of line.

Step 2 - Research your groups topics. Create a short 5 slide keynote slide show.

Step 3 - Draw your design that is related to topic your group was given.

Step 4 - Get your design approved by the teacher.

Step 5 - Put designs on either a styrofoam or a eco friendly bio-polymer cup.

Step 6 - You will participate in a class critique and turn cups in for grade with a completed self-evaluation.



Images: www.iamboey.com



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Line, Texture and Pattern

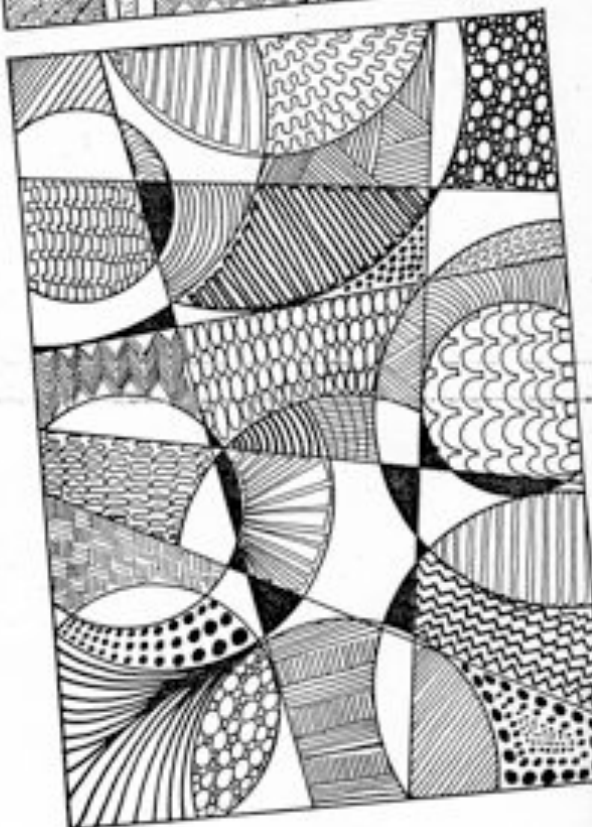
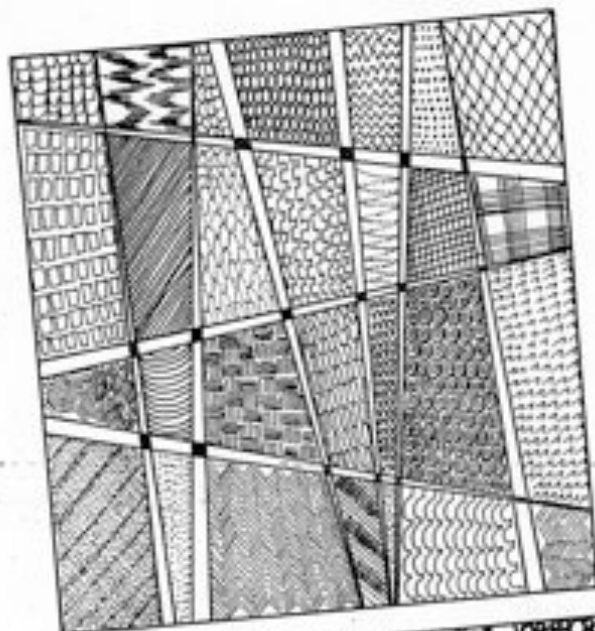
Materials:

12" × 18" or 12" × 12" white paper
thin black marker
ruler
circle templates
3" × 9" white paper

Directions:

1. Divide the paper using ruler and circle template. This project can be done by just straight lines or combining the two together.
2. Use the 3" × 9" white paper for the students to make a palette of various lines, patterns and textures. This will give the students a reference when starting on the 12" × 18" divided design.
3. Using the thin black marker to create the various lines, patterns and textures, try to put a different one in each space.
4. Depending on the line, pattern or texture, a different value* will occur. These should also be spaced away from one another.

* Value means "light to dark."



Evaluation Report

Lauri Thorley Art and Computer Graphics Teacher
Adrienne Lessard Fall 2011 Student Teacher
Clarendon Hills Middle School
301 Chicago Ave. Clarendon Hills, IL 60514

Student's Name:

Teacher's Name: Lauri Thorley

8th Grade Cup Design

Each evaluation question below is worth 20 points.

	student points	Teacher points	Notes:
Quality of craftsmanship and creativity. How is my line quality, no smudges, no tears?	<input type="checkbox"/>	<input type="checkbox"/>	
Attitude and effort. Was I working in class with a good attitude each day.	<input type="checkbox"/>	<input type="checkbox"/>	
Team Oriented. Did I work well in a group, participate in class critique?	<input type="checkbox"/>	<input type="checkbox"/>	
Slideshow, was material informative and well presented?	<input type="checkbox"/>	<input type="checkbox"/>	
Clean up. Was my area clean after each period? Did I help others?	<input type="checkbox"/>	<input type="checkbox"/>	
Total Points	<input type="checkbox"/>	<input type="checkbox"/>	