

Lesson Title: Interdisciplinary Metal Art Project

Appropriate Grades: Middle School & High School

Lesson Serves as: an introduction to other media in the arts and construction.

Big Idea:

By creating together using a variety of skill sets, we learn to communicate and collaborate across disciplines.

Essential Questions:

How can a creative project be a way to test out technologies and uncharted experiences?
How can we learn together and see uses of those technologies in future projects?

Breakdown of Different Classrooms

In this Residency there will be 3 groups of students contributing to the project:

1. Photography Students
2. Multi Media Students
3. Metals (IT) Students

The Photography students will be responsible for the following:

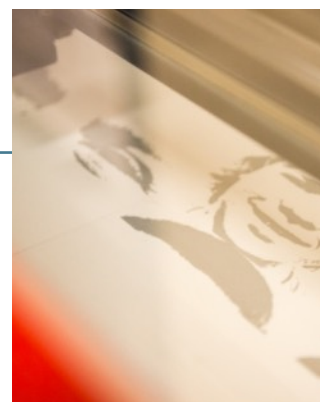
1. Gathering photographs
2. Designing a 9" tile of photographs (equal squares of 1, 9, 16, ...81)
3. Critiquing the layout of the tiles, using paper samples
4. Engraving of a 9" tile using the laser system

Metals Class will be responsible for the following:

1. Using scrap metal to create 18x36" panels that will be used for the backing of the installation
2. Developing and recognizing success in their contribution to the project
3. Assist installation of project

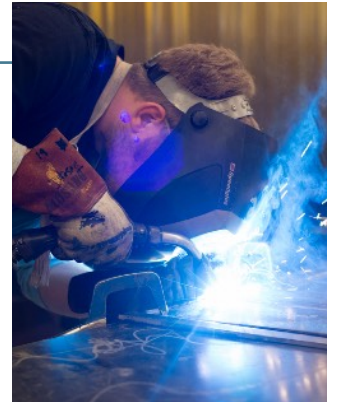
Multi Media Students will be responsible for the following:

1. Assist in the critique of the installation of tiles
2. Weld the tiles to the subsurface of the installation (created by the Metals Class)
3. Assist in the installation of the project



Learning Goals:

1. Students will create some aspect of mural installation.
2. Students will use industrial technology in either computer design software, lazer systems or welding technology.
3. Students will critique and create, simultaneously, solving aesthetic problems if any should arise.
4. Students will learn about the various aspects of the fabrication process (design, architectural/ structural or installation.)



Activities:

Day 1-3:

- Photography: Design a 9x9" tile using Photoshop and filters.
- Metals: Begin the fabrication of the structural subsurface of the installation
- Multi Media: (help with the design work on the computer)

Day 4-6:

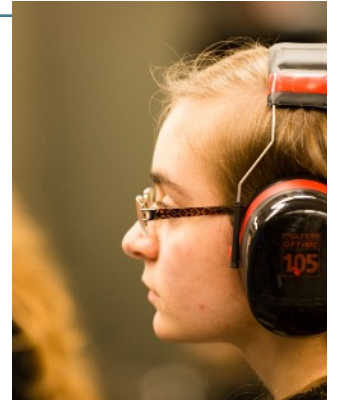
- Photography: Assess and Critique, then edit, 9" tiles. Layout on wall to assure layout plan.
- Metals: Continue on the fabrications of structural subsurface
- Multi Media: Bring into critique process.

Day 7-12:

- Photography: Begin laser engraving process (approximately 15 minutes per student)
- Multi Media: Help with the laser engraving process (if needed) and the assembly of the installation.
- Metals: Continue fabrication of structural subsurface, if needed.
- Bring all classes together to create the panels throughout the day.

Day 13-15:

- Installation of project
- Discussion of process
- Reflection/Discussion

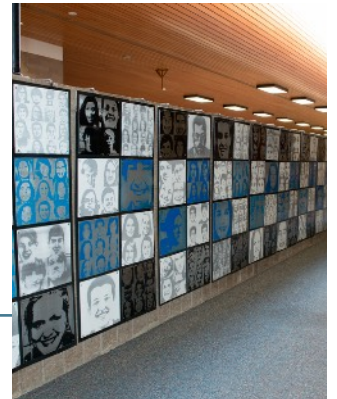


Materials

- Metal ends from local metal supplier with industrial paint to insure high quality long-term durability.
- Paper for printing tiles for a sample critique.
- Welding materials

Documentation

- Photographer and documentary video will be utilized in this project.



State and National Standards

Demonstrate knowledge of the foundations of the arts area.

9.1.1.5.2: Evaluate how the principles of visual art such as repetition, pattern, emphasis, contrast and balance are used in the creation of, presentation of, or response to visual artworks.

9.1.1.5.4: Apply understanding of the health and safety issues related to creating in art.

Demonstrate knowledge and use of the technical skills of the art form, integrating technology when applicable.

9.1.2.5.1: Integrate the characteristics of the tools, materials and techniques of a selected media in original artworks to support artistic purposes.

Demonstrate understanding of the personal, social, cultural and historical contexts that influence the arts areas.

9.1.3.5.2 : Synthesize and express an individual view of the meaning and functions of visual art.

Create or make in a variety of contexts in the arts area using the artistic foundations

9.2.1.5.3 : Justify an artistic statement, including how audience and occasion influence creative choices.

Perform or present in a variety of contexts in the arts area using the artistic foundations.

9.3.1.5.2 : Revise presentation based on artistic intent and using multiple sources of critique and feedback.

Specific Educational Benchmark this lesson addresses:

Abilities for a Technological World:

Standard 11: Students will develop the abilities to apply the design process.

- Identify a design problem. (This has been decided by school)
- Identify criteria and constraints (This has been developed by instructor and teaching artist)
- Refine the Design ***
- Evaluate the Design ***
- Develop a product or system using quality control. ***
- Reevaluate final solution (s). ***

Standard 12: Students will develop the abilities to use and maintain technological products and systems.

- Document and communicate processes and procedures.
- Troubleshoot and maintain systems.
- Use computers to communicate.

The Designed World:

Standard 19: Students will develop an understanding of and be able to select and use manufacturing technologies.

- Manufacturing systems
- Marketing of products.