



Teacher: Alejandro Camacho

Title: Creating an Inclusionary Environment

Grade Level: 9th -10th grade

Brief History/ Background:

Architecture has been around for centuries. There has always been, since the beginning of human civilization, the construction of structures or homes to live in to shelter people from the environment, and to coexist with other people. Native Americans constructed teepees, because they are portable homes and these homes reflected their nomadic lifestyle. Mexicans created homes called adobes and they were made out of clay and straw, because this was a recourse that was heavily available for them and was not as costly and time consuming process as other materials. In the 1600s Swedish settlers in America created houses made of wood and stone, called log cabins.

Building homes is a design process that involves critical thinking and problem solving to develop an end result that will cater to the needs of people that will live in these homes. There needs to be an empathetic approach to solving problems that involve architectural designs of a home, because a home needs to be place that people feel comfortable, safe, and protected from the environment.

PA Academic Standards for Arts and Humanities:

9.1.5.A: Know and use the elements and principles of each art form to create works in the arts and humanities. (Visual Arts: color, form/shape, line, space, texture, value)

9.1.5.B: Recognize, know, use and demonstrate a variety of appropriate arts elements and principles, to produce, review and revise original works in the arts. (Visual Arts: paint, draw, craft, sculpt, print, design for environment, communication, multimedia)

Goal: Students will collaborate in groups of 3-4 people to use design thinking to create their own unique homes that fits the needs of everyone in their group and is also accessible for other people to enter and reside with comfort.

Objectives:

- 1) Knowledge: Students will effectively research architectural designs of homes in order to understand the structure of a house.
- 2) Skill: Students will create their own supply list in order to construct a three-dimensional house.
- 3) Attitude: Students will think empathetically of the people around them in order to identify solutions that could assist in making homes comfortable for everyone in their group and others that may enter.

Requirements: Students must research masks from a culture that inspires them, construct a mask that is inspired by their chosen researched culture, and present the mask to the classroom explaining design process and reason for choosing the culture.

Resources/Materials/Visual Aids:

- Do Now (initial questions to stimulate topics related to the lesson plan)
- Slideshow of a variety of architectural designs of homes
- Slideshow of design thinking
- Examples of model homes
- Books on architectural design
- Design Thinking Packet

Supplies/Material:

All supplies/materials will be student dependant. All of the following supplies will be available to use:

- 1) Pencil and eraser to sketch ideas and jot notes from research
- 2) Recycled items (cardboard boxes, bottles, paper towel rolls, etc)
- 3) Acrylic paint, color pencils, crayons, charcoal, or markers for coloring
- 4) Glue (stick glue, bottle glue, hot glue gun)
- 5) Tape
- 6) Scissors
- 6) Paper (white, lined, colored, watercolor)

Critique/Evaluation/Assessment (Summative/ Formative):

- Completion of Do Now's
- Completion of Design Thinking Packet
- Completion of three-dimensional model house
- Group Participation
- Group Presentation
- Exit Forms

Adaptations: Presentation of lesson is clear and has visual step-by-step instructions. Group activity will help students that have trouble understanding goals/objectives. Classmates will be responsible for the participation of everyone in their group.

Extensions: Students who finish early can continue to add detail to their models. They can focus on more aesthetic qualities of their home. What color is their house painted, is their a garden in the backyard, swimming pool, mailbox, bushes, doghouse, and trees?

Time Budget:

Class Time: 7 Sessions, 45 min. each

- Session 1
Do Now: 5 min.
Intro to Lesson Plan: 10 min.
Design Thinking Packet/ Assemble in Groups: 25 min.
Clean Up: 5 min.
- Session 2
Do Now: 5 min.
Design Thinking Packet/ Start Sketching: 35min.
Clean Up: 5 min.
- Session 3
Do Now: 5 min.
Sketching/ Start Construction of 3D House: 35min.
Clean Up: 5 min.
- Session 4
Do Now: 5 min.
Construction of 3D House: 35min.
Clean Up: 5 min.
- Session 5
Do Now: 5 min.
Construction of 3D House: 35min.
Clean Up: 5 min.
- Session 6
Do Now: 5 min.
Construction of 3D House: 35min.
Clean Up: 5 min.
- Session 7
Do Now: 5 min.
Final Touches to 3D House: 5min.
Presentations of 3D House: 35 min.