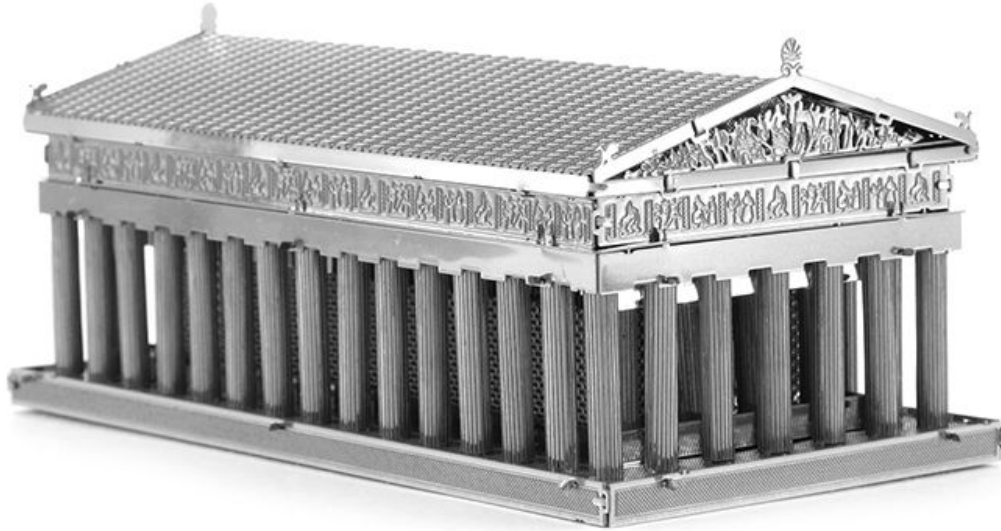


Ancient Greek and Roman Architecture Project Syllabus

Human Ecology, Fall 2019



Purpose:

This trimester we are studying Ancient Greek and Roman Culture, History, Mythology, Science, Philosophy, and Math. By looking at architecture, we will be able to understand much of what the Greeks and Romans thought, believed, and lived, as well as how they constructed their world through science and mathematical understanding.

Plan:

We will begin by looking at Greek and Roman culture, mythology, and history. We will understand how each culture looked at the world, and how they began to construct some of their most amazing buildings. We will do many tasks to support our understanding of this culture- from discussions, to research, to creating a map, to watching videos, to creating a timeline, to visiting Greek/Roman influenced structures in Boise, to working to understand the science of the basic machines which were key in construction of these wonders. We will take it bit by bit and step by step.

First, you will choose one building from Ancient Greece or Rome and become the “expert” on it. You will research that building and find out everything you can about it. That building will be your personal area of focus for the following projects:

Structure Proposal:

Due Friday, October 4th

- ❑ One sentence purpose of the structure. How did it serve the community? (Mythos)
- ❑ Include three pictures of your structure that show the building from different angles. Label the dimensions on the pictures: length, width, height (Logos)
- ❑ Describe one feature that represents an example of mythos
- ❑ Describe one feature that represents an example of logos
- ❑ Location and orientation of the structure in Greece, class map (Logos)
- ❑ Start date and completion date for the construction of this structure, add this information to the class timeline

Mythos Paper:

Rough Draft Due Friday, October 18th

You will write a 2-3 page paper that looks at the “story” of your structure.

Questions you might answer are:

- What was the purpose of this structure? How was it used?
- What is unique about this structure?
- Look at all the details of the structure. Are there any inscriptions? What do they mean?
- Are there any carvings of humans or animals or gods on the structure? Who are they and why are they there?
- What special events or rituals took place at the structure?
- Who used the structure? Who created it and why?
- Why was that site chosen for that specific structure?
- How does this building fit into our understanding of Greek and Roman culture?

Logos Project:

For the Logos Project, you will demonstrate a mathematical and scientific understanding of the building. You will show your understanding in **two parts**: The building scale and dimensions of your model, and an exploration of a feature of your interest.

Part 1: Building Scale

The model you build for your final project should be a ‘scaled down’ version of the actual structure. You should include:

- A list of the dimensions of the real-life structure.

- A list of your scaled down dimensions that you will use for your model. Be sure to include your calculations.
- A drawing or “floor-plan” that will help guide you in building your model.

Part 2: Exploration of a Specific Feature

Find a particular feature that makes you wonder how it was constructed. Your mission is to present the question, and to find the answer. Your final *Logos* product will be a visual representation of how this one feature was constructed.

Questions you might answer are:

- What was this **feature or part** of the structure made of? Where did the materials come from? What was the process to get these materials to the building site?
- How many people did it take to build this structure?
- What simple machines were involved (levers, pulleys, wheels, wedges, screws, inclined planes)?

Some examples of a final product include a poster, book, video, or 3D demonstration of how this feature was constructed.

Calendar:

Friday, October 25th: Part 1 Building Scale (BluePrint Plan) due.

Friday, November 1st: Detailed outline of Part 2 Exploration of a Specific Feature

Friday, November 15th: Final *Logos* product due.

Model of Structure, Final Drafts of Mythos and Logos:

Due Monday, November 18th

Build a 3D model of your structure, out of materials of your choosing (clay, foam board, wood, etc.) that is to scale. We know it may be difficult to have every dimension to scale, but certainly, length, width and height should be accurately represented. The scale should be made clear on the final product.

If you have a small building, you should look at adding details to your product-demonstrate details on the building, inflate certain sections to show key features.

The final product should also represent how the building originally looked. Consider colors, representations of the various inscriptions, carvings, dedications. Consider making features that you could open, take the lid off, show the statues on the inside, etc. Your task is to show as many aspects of the building as is reasonable in the next few weeks. You will have time in school, and at home to complete this task. It should be solid in construction, not flimsy and ready to fall apart. Your final

product should represent a trimester's worth of work at understanding the building.

Greek and Roman Architecture Fair: Wednesday, November 20th