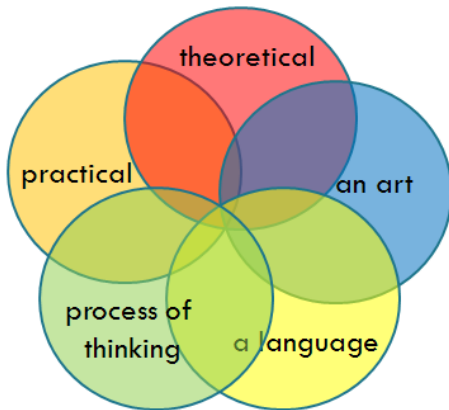


What is Mathematics?

Mathematics is ...



Final Project Presentations

—Research how the mathematics from our class relates to a topic you are interested in

OR

—Design a creative review of what we covered in class

Create a two-page or three-page typed product that satisfies the relevant rubric. Sample projects are on the final project link. Bring printouts of your work to tape to the wall, and bring paper to conduct peer review/self-evaluation. Presentation during our assigned time at finals.



<https://magiceducation.wordpress.com/2011/03/30/make-your-own-comics-witty-comics/>
<https://serc.carleton.edu/details/images/15703.html> Photo by Carol Ormand.
<http://hosted.jalt.org/pansig/2005/HTML/Bayne.htm>



the following:

1. Research how the mathematics from our class relates to a topic you are interested in

OR

2. You can design a creative review of what we covered in class.

The project rubrics have many common elements, but there are some differences:

Final Project Presentations

1. Research how the mathematics from our class relates to a topic you are interested in

clear mathematical connections	could use improvement	good	exceptional
connections from at least 2 of our segments	could use improvement	good	exceptional
depth of connections	could use improvement	good	exceptional
geometry, algebra, statistics, probability	could use improvement	good	exceptional
own words	could use improvement	good	exceptional
mathematical breakthroughs	could use improvement	good	exceptional
mathematical equations	could use improvement	good	exceptional
diverse mathematicians	could use improvement	good	exceptional
mathematical pictures	could use improvement	good	exceptional
timeframes	could use improvement	good	exceptional
applications & modern significance	could use improvement	good	exceptional
creative & attractive two-or-three-page typed product	could use improvement	good	exceptional
professional & clarity	could use improvement	good	exceptional
annotated references (not included in page count)	could use improvement	good	exceptional
image refs (no annotations needed for pics)	could use improvement	good	exceptional
quality references	could use improvement	good	exceptional
discussions & engagement at the final	could use improvement	good	exceptional
peer review	could use improvement	good	exceptional
self-reflection	could use improvement	good	exceptional

OR

2. Design a creative review of what we covered in class

clear mathematical connections	could use improvement	good	exceptional
connections from all 3 of our segments	could use improvement	good	exceptional
depth of connections	could use improvement	good	exceptional
geometry, algebra, statistics, probability	could use improvement	good	exceptional
own words	could use improvement	good	exceptional
mathematical breakthroughs	could use improvement	good	exceptional
mathematical equations	could use improvement	good	exceptional
diverse mathematicians	could use improvement	good	exceptional
mathematical pictures	could use improvement	good	exceptional
timeframes	could use improvement	good	exceptional
applications & modern significance	could use improvement	good	exceptional
creative & attractive two-or-three-page typed product	could use improvement	good	exceptional
professional & clarity	could use improvement	good	exceptional
acknowledgement to external items, if any	could use improvement	good	exceptional
image refs	could use improvement	good	exceptional
discussions & engagement at the final	could use improvement	good	exceptional
peer review	could use improvement	good	exceptional
self-reflection	could use improvement	good	exceptional

You must participate in the final project to pass the class.



2. Write a paragraph explaining your choice for the final research project. You may need to tweak it later, such as narrowing or broadening it.

2. Search for mathematics and your topic(s) and write down a few items of what you find related to mathematical breakthroughs.

Research/Reflection Guide

3. Find a mathematician or civilization/culture that has an important contribution that relates and write down
- the name of the mathematician and/or the civilization/culture
 - how they contributed
 - when they contributed (a year or range of years)
 - the source reference.
4. Find an equation related to the topic and write down the equation, how it connects, and the source reference.
5. Find a mathematical image related to the topic and write down the source reference [note that Google images (a database) is not a source reference-but you can write down the original webpage the image came from].
6. Look for connections from our prior segments (geometry, algebra, and/or probability and statistics). If you select this project, then you can focus on connections from two of the following segments:
- geometry
 - algebra
 - statistics and probability
7. Look for real-life applications and modern significance of the mathematics.
8. Continue researching to find more mathematical items for #3-#7 and keep track of your sources. Put on your math goggles like the video we watched and follow the math; choose the most mathematical people and items you can locate to include in your project. See the project criteria and

Choosing a Research Topic, If You Select that Project

Interesting/useful/important to you!

Enough scientific/mathematical connections and people

- technical applications: cancer, film, roller coasters, a sport, your future career
- mathematical/scientific object: black holes, π , golden mean
- person: David Blackwell
- place: Egypt, the universe
- controversy in mathematics

There are lots of possibilities and I am happy to help you find sources and connections!

Math: It's NOT Everywhere, but it's in lots of places

Educational Goals at ASU

Thinking Critically & Creatively

research and creative product

Communicating Effectively

writing, speaking and reflecting

Making Local to Global Connections

math applies in many settings, multiple perspectives

Understanding Responsibilities of Community Membership

citations, peer review, actively listening to each others perspectives and presentations...

Exam Corrections on One Exam



<https://mathequalslove.blogspot.com/p/free-classroom-posters.html>
<https://www.leaderinme.org/blog/the-power-of-a-growth-mindset/>

Turn in your revisions physically by reading day. You can write your corrections on it and/or write on a separate sheet of paper. Your revised exam grade replaces the original. I expect you to use online resources and get help from me.