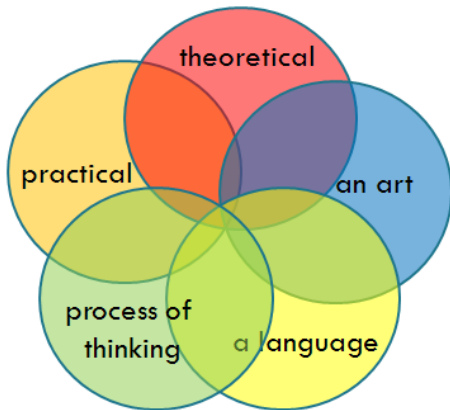


*What is Mathematics?*

# 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 video that satisfies the relevant rubric and perform peer reviews and a self evaluation.



<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 2-3 page 11-12 pt 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 2-3 page 11-12 pt 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.



## *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,  $\pi$ , 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...

# Course Survey and Evaluations

(Optional) One of the reasons I enjoy teaching is that I always learn something new from students each semester and I would like your feedback before planning for next time. What would you like to be different? What was most helpful? Tell me what you thought of the course... The more specific the comments and suggestions, the better!

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Thank you for your feedback! Dr. Sarah

**COURSE EVALUATIONS MAKE A  
DIFFERENCE...  
LET YOUR VOICE BE HEARD!**

**Want to have an impact? You can:**

- help instructors improve future course offerings,
- inform decision-makers for merit, promotion and tenure. and teaching awards.

## *(Optional) Corrections on One Exam*



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

You can write your corrections on it and/or write on a separate sheet of paper but you collate and turn in the original too regardless. Your revised exam grade replaces the original. I expect you to use online resources and get help from me!



this is how i finish a presentation:  
happymonsters.tumblr.com



Lucy Doan Feb 4, 2014 <https://happymonsters.tumblr.com/>