

Math 310 Problem Solving for High School Teachers
Spring 2016
Lecturer: Dr. Paullin
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Portfolio

The final portfolio will be submitted for grading on **Friday, April 29th**, and will be returned on the final exam date.

In a three ring binder, with 3 divider tabs labeled “Exams”, “Writing Assignments”, and “Homework Problems”, you will have the complete collection of all 4 exams, 4 writing assignments, and 6 homework problems. For homework problems that have been redone, both the original assignment and the redone assignment should be included. A cover page (either on the front of the binder or first page inside) should include your name and title “MA 310 Portfolio”. Creativity is encouraged.

The final portfolio will be graded as follows:

15 points will be awarded for having all documents present. One point will be subtracted for each document missing.

5 points will be awarded for having everything sorted into proper tabs.

5 points will be awarded for presentation. Binder cover page and neatness will be considered.

Homework 6 - Lesson Plan

A few weeks ago, we talked about the need to incorporate problem solving into your own classrooms, and I asked you to think about how to do this. Now is your chance to show me what you came up with!

You will write a lesson plan (template provided on our class website) detailing how you will use problem solving in your classroom or a math/science related outreach event. You should think about what students will know prior, what you and the students will do incorporating problem solving, and how you will assess learning. Your lesson will also include which Standards for Mathematical Practice your lesson meets.

Homework 6 is due with the portfolio on Friday, April 29th.

Writing 4 - Portfolio Reflection

Your last writing assignment is to reflect on the semester. You should type 2 pages reflecting on your experiences in MA 310. Some questions to reflect on are:

What have you learned? What have you seen before, but needed a good refresher on? What was your favorite type of problem solving that we worked this semester? What was your least favorite? How will you use the experience of this course to better your teaching in the future?

Writing 4 is due with the portfolio on Friday, April 29th.

Final Exam Info

Read Chapters 3 and 7 (pages 57-83 and 138-166) of "What's Math Got To Do With It?" by Jo Boaler. Be prepared to discuss these chapters at the final exam time, **Tuesday, May 3rd from 10:30am-12:30pm.**

Your graded portfolios will also be handed back at this time.