Olivia Bello's Midterm Event
A Plan for the Final 70 Points
Link to this google doc

1. **Lesson Implementation & Reflection (20 points) Due 4/6/2022**
   Plan
   Lesson: Touchdown! Lunar Lander Engineering Challenge
   Implementation Date: March 7th-March 18th
   Student Artifacts: Images of student landers, posters, possibly a video of testing landers.

2. **Choice Option 2: Astronomy/Space Science Unit Plan (40 points) Due 4/20/2022**

- What big ideas or major concepts do you hope to address through this unit?
  - **MS-ESS1-3** Analyze and interpret data to determine scale properties of objects in the solar system.
- What resources from this course do you intend to integrate with your unit plan?
  - I liked the lesson idea around getting students comfortable with really small and really large numbers, I might use something like that to launch this unit. Additionally, I would like to use some of the Hubble images to help students with identifying surface level features of various planets. I will also be digging through the JPL lesson bank, there are some incredible resources in there!
- How will using these resources help your students better achieve your goals for the unit?
  - I think that the false color images from Hubble will get my students invested in this unit, it's not something they see everyday! I also believe that the number lesson will help reduce stress amongst students who disengage in science when math gets involved.

Rough Draft of Unit Outline
Day 1 - Introduction to Numbers Lesson variation
Day 2-3 - Size and Scale activity from JPL
Day 4-6 - Students research a planet and make travel brochures focusing specifically on the weather, surface features, and distance from the sun.
Day 7 - presentations/gallery walk celebrating student data interpretation and research while also getting stamps in a planet passport

Other thoughts/ connections - Potential connection to Manhattan-henge? Art connection through JPL cosmic art lessons in partnership with the school art teacher or local artist.

3. **Final Presentation-using an activity (10 points) Due ?**
   - NASA Earth Observatory - Sea Surface Temperatures Map.
     - Could be used when teaching:
       - Climate Change

- Weather - predicting hurricanes
- Resilient Parks Project - Using resilient infrastructure along shorelines in NYC as a result of rising SST

Is this an option? OR should I choose a lesson plan provided by NASA? Or should I be presenting on my Lunar Lander Lesson. (I have many ideas, just need a nudge in the right direction!)