

# Digital Tools for Student Collaboration and Presentation

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# Background

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- Every Monday we work in collaborative groups to solve a complex math problem. The problem is complex enough to span multiple weeks.
- Our recent Messy Monday Problem was "A Trip to the Super Bowl." Students had to plan the trip and determine the cost. They created a presentation to share their information.

## **A Trip to the Super Bowl**

Would you like to go to the Super Bowl? What would it cost to go? What would you need? Don't forget about food, snacks, transportation, and souvenirs.

Use our Schoology discussion board to communicate with other groups.

There are websites posted on Schoology for you to use. You may not search on the internet. If you need other websites, you must check with Ms. Hermance. You may not enter any personal information, or register for anything!!

Use Explain Everything to create a presentation. This should include your budget/itinerary. Incorporate evidence of as many Mathematical Practices as you can into your presentation. If you use a website or other source for your information, you must cite that source in your presentation.



# Digital Tools

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- Schoology
  - Teacher posts links to safe websites for students to get information.
  - Students use the discussion board to communicate between groups and to communicate when they are working outside of class.
  - Final projects can be posted to share with the class.
- Explain Everything
  - Students create a slide show to present their information.
- What other digital tools have you used?





# Ties Across Content

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- Reading informational articles
  - Research
  - Citing sources
  - Writing – persuasive
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- Messy Problems – What are other connections?





# Rubric

- Mathematical Practices
  - I Can Levels
    - 0 – I don't get it
    - 1 – I'm starting to get it, but still don't really understand
    - 2 – I can do it with help or a model
    - 3 – I can do it on my own
    - 4 – I can explain how to do it and teach others

Mathematical Practices	Your Rating	Teacher Rating
When presented with a problem, I can make a plan, persevere in carrying out my plan, check and evaluate my answer. (MP 1)		
I can use numbers, words, and pictures to help me make sense of problems. (MP 2)		
I can make logical arguments and respond to the mathematical thinking of others. (MP 3)		
I can recognize math in everyday life and use math I know to solve problems. (MP 4)		
I can use the appropriate tools to help me understand and solve problems. (MP 5)		
I can be precise when solving problems and clear when communicating my ideas. (MP 6)		
I can see and understand how numbers and spaces are organized and put together as parts of wholes. (MP 7)		
I can find repetitions in calculations, and use more general methods and short cuts. (MP 8)		



# Presentation Video

## Messy Problem





# Other Ideas for Messy Problems

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We will work on this during our session....