



DILWORTH STEM ACADEMY

Washoe County School District

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Laura Petersen, Principal
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Dilworth STEM Academy Scholars,

By now you have become very proficient at working in teams and getting your work done and ready to present. This quarter we want you to focus on building your depth of knowledge on a very precious resource, water. Your Driving Question is:

“Water: What Is The Matter?”

Did you know that water comprises roughly 70% of our bodies and covers roughly 70% of the earth? Of all of the water on earth 97% is found in the oceans, unusable for drinking. Fresh water comprises the other 3% but 80% of that is frozen in ice caps and glaciers. That means that as humans we have access to less than 1% of the fresh water found on earth! Water is essential for our existence on earth.

During this unit your creativity should grow with each component of your project. In addition, your work ethic as both an individual and a team member will be displayed.

Your major products:

- ✦ **Science:** Demonstrate a functioning water filtration system that successfully removes at least one contaminate.
- ✦ **Math:** Create a proposal for water conservation to reflect a 10% reduction based on rates of personal consumption and community need.
- ✦ **ELA:** Generate a narrative piece of writing that includes a definitive plot structure: exposition, rising action, climax, falling action, and resolution. This narrative will demonstrate a thorough understanding of concepts protagonist and antagonist and conflict, as water will take on one of those roles in the narrative.
- ✦ **R&D:** Research and create a display of a water source from a surrounding area within our community including its distribution, filtration, and redistribution.

To conclude this unit, you and your group will participate in the exhibition of learning on October 9th when you will wow us with your knowledge of the driving question. What can you do for your presentation that will set your group's work apart and make it special and memorable?

Remember to push yourself and your group members, as work ethic is just important as an individual as it is in a team. The effort and learning you engage in now will lay the foundation and assist you greatly in high school, college, and beyond.

Sincerely,

The DSA Staff

