

Innovation Park Water- Progress Report I

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Dr. Psaker

The Governor's School at Innovation Park

Objectives: Continue working on website and extensive research on materials needed to construct the water filter. Continue research on best way to construct water filter.

Materials and Methods

Progress:

The first step was to brainstorm possible ideas for the project. We wanted to focus on a form of water purification. As we thought more about what we wanted to do and who we wanted to impact, we came to the conclusion that we wanted to help people in third world countries that do not have access to a clean water source. The project that was decided on and approved by Dr. Psaker was a water filtration system that can be used in third world countries, powered by solar energy. Research was conducted on solar energy and filtration processes. The first article, *Point of Use Household Drinking Water Filtration: A Practical Effective Solution for Providing*, provided research on the different methods of filtration and the most effective of them. A summary was written on the article and submitted for grading. Another article summary was written on a second article, *Survey of Solar Desalination Systems and System Selection*. This article focused more on filtration using solar energy and the different ways that can be done. The final article was done on *Desalination of Brackish Water with Parabolic Solar Concentrator*. This article explained a specific design and the process used. The experimental design, a broad description of how Innovation Park water will be built, in addition to a research plan that goes more in depth about the project and the process to make it, are posted on the website <https://shanew08310.wixsite.com/innovationpark-water> under their designated sections. The needed forms were signed and turned in. The website was also created with its general layout and updated with all the current information and documents.

Work Planned for the Next Two Weeks:

Research will be continued over the next two weeks to get a better idea of what materials will be used to construct the filter itself. As more research is done, the project design will come

closer to being completed for construction in the future. The website will be updated and edited to perfect it. The overall goal for the next two weeks to solidify the design of the water filter and understand how each part of it will work together to meet our goal.

Data and Results

No data or results at this time. No experimentation has occurred.

References

No references at this time.