The UV Cart

The Wombat Solutioneers
Hayden Mills, Maanvith Murari, Sarah Nielsen, and Seoyeong Oh
The Challenge 2020
June 22nd, 2020
On a scale of 1-10, my want to go back to school is an 8.

I expect that we will be required to wear masks and that a lot of social events will be canceled.

One of my biggest fears is that a lot of people will be at risk.

"We’re going to have to wear protective masks, we may have to wear plastic gloves, we may have to wash. Learning will not be the same as it was prior to March 1. It just won’t be, and we can’t expect it to be."

Aidan Roberts, a rising senior at Tanque Verde High School in Tucson, Arizona.

Paula Herbart, president of the Michigan Education Association.
Classrooms and Their Challenges

A classroom in Arcadia High School in Phoenix, Arizona. This figure was obtained from this [website](#).

A classroom in Hamilton High School in Chandler, Arizona. This figure was obtained from this [website](#).
Other Challenge

A diagram of the social distancing and why. This figure was obtained from this website.
The Expensive Version (on Airplanes)

A diagram of the Germ Falcon and when its at work. These figures were obtained from this [website](#).
Another example of a UV machine at work, but in hospitals. The person in the suit needs to wear a suit for protection. This figure was obtained from this video.
Another example in hospitals, but with a different feature. It has a flat, lever version of using the UV light. These images were obtained from this video.
Sketches in the Beginning

Diagram represents prototype model built by Hayden Mills in Minecraft.

First sketches of model visuals and functionality. Created in Google drawings and by hand by Sarah Nielsen.
Final Sketch

Final design of product, rough sketch by Seoyeong Oh.
About Our Design

An image of a computer cart. This figure was obtained from this [website](#).

A diagram displaying the features of being a janitor. This figure was obtained from this [website](#).

An image of UV resistant plexiglass. This figure was obtained from [website](#).
In Addition...

An image of a laptop on a desk. This figure was obtained from this [website](#).

An image of social distancing with masks. This figure was obtained from this [website](#).
Impacts

An image of money. This figure was obtained from this website

A person entering the classroom. This figure was obtained from this website

An image representing health. This figure was obtained from this website

A person cleaning with chemicals/disinfecting equipment. This figure was obtained from this website
More Impacts

Not many people present in the hallways. This figure was obtained from this [website](#).

A classroom with no people. This figure was obtained from this [website](#).
Engineers

Civil Engineers. This figure was obtained from website

Mechanical Engineers. This figure was obtained from this website

Electrical Engineers. This figure was obtained from website
As a Team...

An image representing collaboration. This image was obtained from website
References

- https://www.cusd80.com/cec
- https://www.youtube.com/watch?v=WRXZjLk_4Hk
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Here Are Logos if your team wants to use them