



THE PROCESS: HOW IT CAME TO BE

DESIGNING

- Using Tinkercad, we developed a preliminary design for our filter
- Used different shapes to symbolize the different parts
- Allowed for 3D visualization of what we wanted to create

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BRAINSTORMING

- Researched and decided that we were to use a combination of foam, dryer sheets, and plastic, along with fans and solar panels to power it

3D PRINTING

- For the base of the air filter
- Cube shape- hollow on the inside to place materials
- 3D printed because we were intrigued by that resource and wanted to utilize it

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CONSTRUCTING

- In order to build the air filter, we placed the fan with the various materials (foam, sheets, and plastic) inside of the hollow cube.
- This fan will blow the air through the filtration materials

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TESTING

- In order to test if AirBotanica works, we would measure the air quality in a room before we run the filter, and measure the air quality after the filter has been running for a specific period of time.