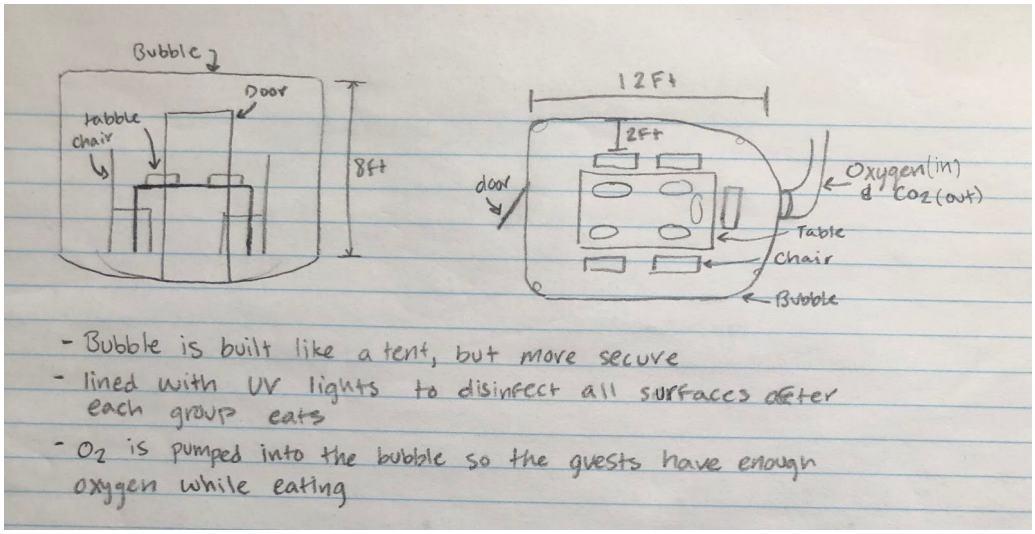
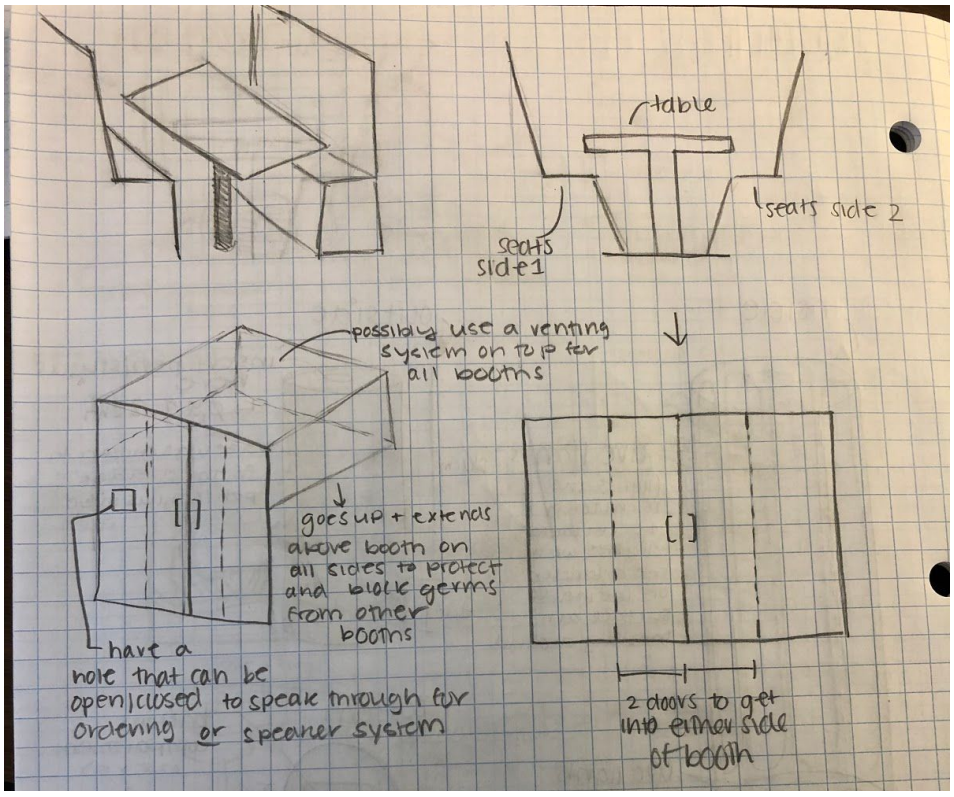
KWR
Planning Doc

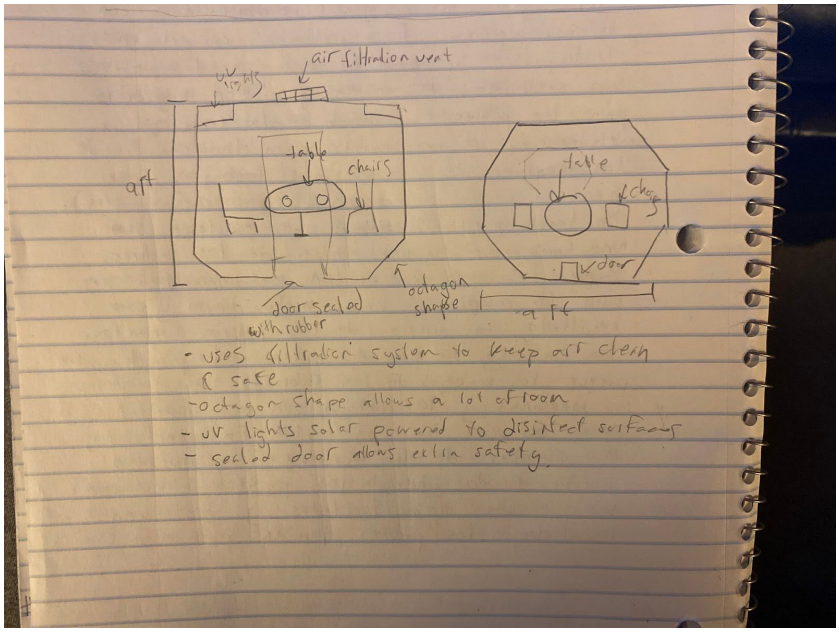
Brainstorming Ideas:

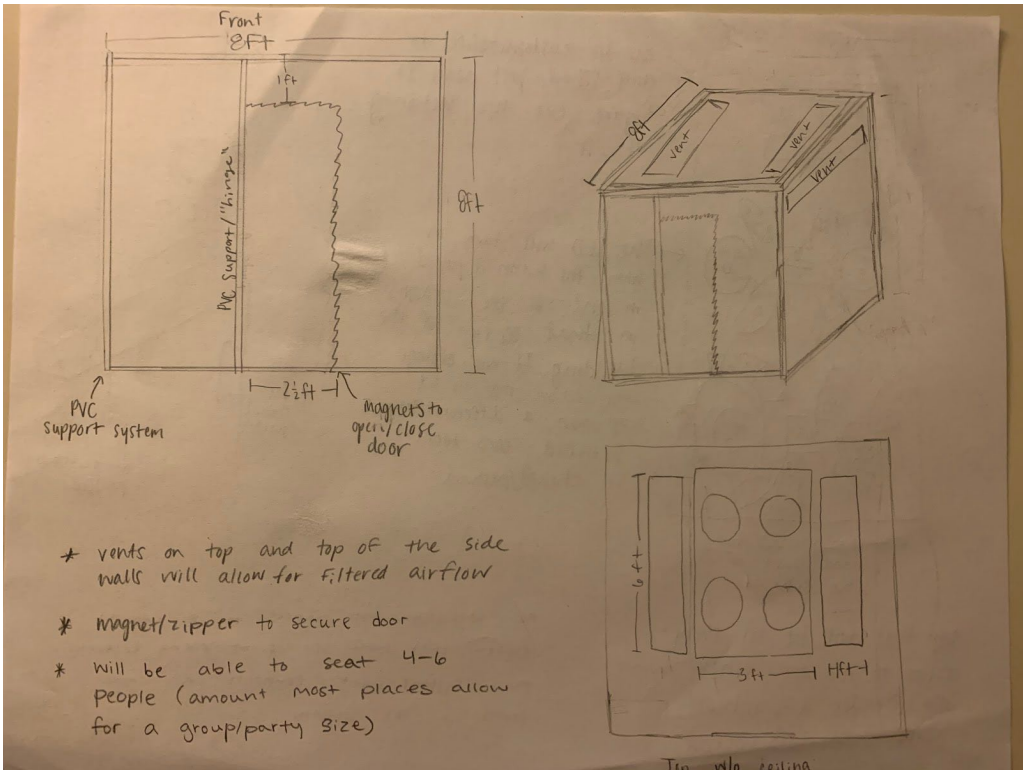
1. Mask that is easy to breathe in for running/ working out
2. Something related to disinfecting desks or school areas
3. Solution to eating in restaurants/ how to make safer
4. Gloves or cloth for shopping disinfectant

Brainstorming sketches:






air filtration vent
UV lights
table
chairs
8ft
door sealed with rubber
octagon shape
table
chairs
door
8 ft
- uses filtration system to keep air clean & safe
-octagon shape allows a lot of room
- uv lights solar powered to disinfect surfaces
- sealed door allows extra safety

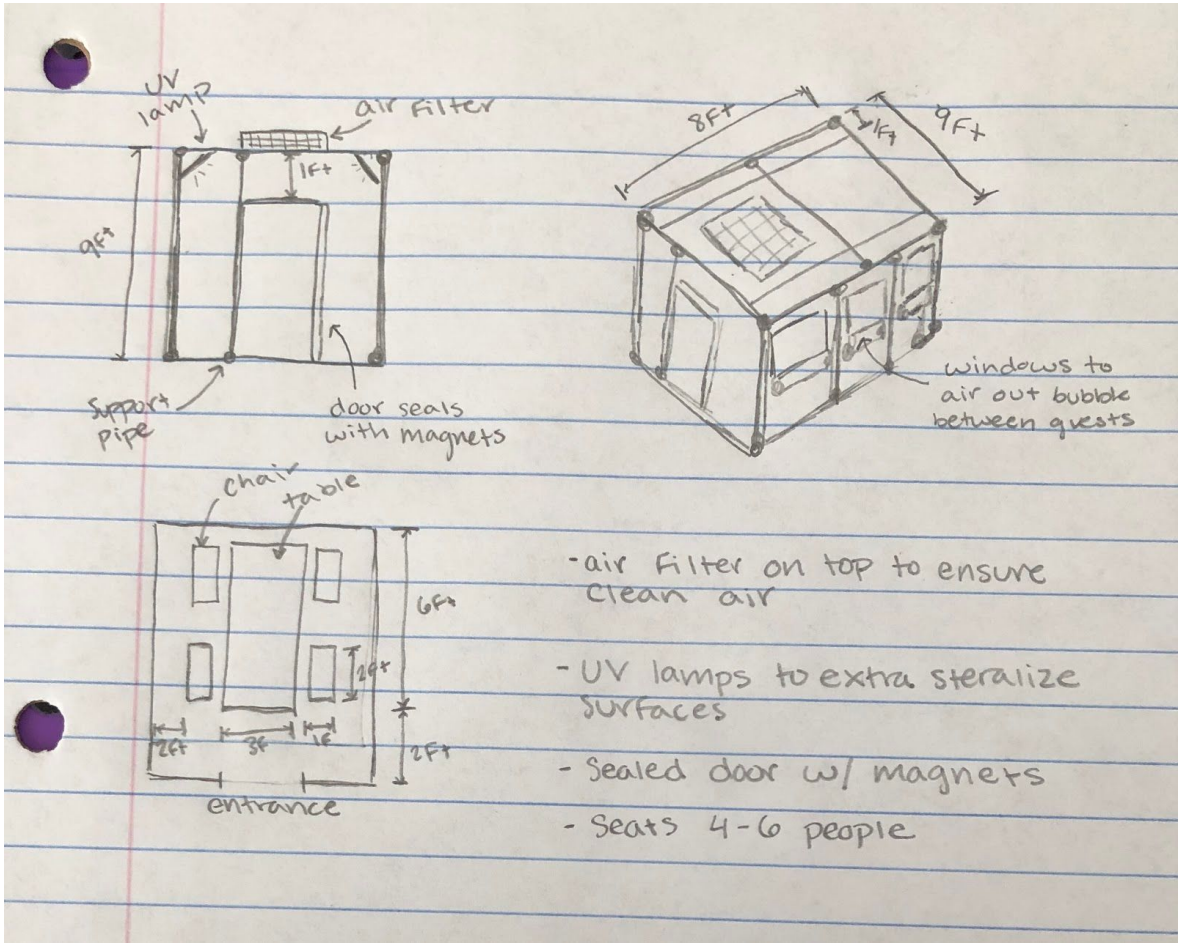

Front
8ft
1ft
PVC support/"hinge"
8ft
2½ft
PVC support system
magnets to open/close door
8ft
vent
vent
vent
6ft
3ft
4ft
* vents on top and top of the side walls will allow for filtered airflow
* magnet/zipper to secure door
* will be able to seat 4-6 people (amount most places allow for a group/party size)

Decision Matrix

	How effectively does it prevent spread of germs	Ease of use for restaurants and customers	Realistic market potential (businesses can't afford many high tech bubbles)	Build/assembly difficulty for the business and the producer	How versatile? (will measurements work for any table type and any restaurant)?	Total (out of 25)
1 (Catie)	4	3	2	4	4	17
2 (sam)	4	3	4	3	2	16
3(Donovan)	4	4	3	3	3	17
4 (Kate)	4	4	3	4	3	18

(The goal is to get as many pts. Possible on scale 1-5, 5 being best)

Final Sketch



Problem Statement:
Who says its a problem
What is the problem
How will we fix it

In December 2020, over 17% of restaurants across the United States permanently closed due to the lack of business throughout the COVID pandemic. Without a dine-in option available for customers, many businesses are not able to make enough money to keep their businesses open. By producing a dining enclosure we will be able to create a sanitary environment that will allow for dine-in at restaurants.

Pitch Video Presentation

CAD

Progress Check 1

Presentation

Research on air filter:

- Mechanical air filters trap particles from the air onto the filter
- Act like large medical face masks that remove particles from the air to prevent them from passing past a certain point
- Most standard air filters work in the same way
- Air purifiers are also an option but would not be used to filter air going in/ out but would purify the air that is already in the bubble area