PREVENTIVE MEASURES
CLASSROOM
BLUEPRINTS

TEAM ONYO
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THE CHALLENGE 2020
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THE PROBLEM

• “My experience during the COVID quarantine situation was lack of students wanting to talk during discussion time. Socratic Seminars are a very powerful way to learn. One huge reasons was the lack of technology on the student’s part, example microphones” (History Teacher).

• Limited teacher-student interactions
THE PROBLEM

• “Person-to-person classes enable more engagement between the student and the teacher, thus increasing information retention, but online classes allow for the use of a variety of powerful online services. In my opinion, a mix of both, such as a person-to-person class that incorporates technology, would be the most effective” (Survey Response from a High School Junior).
LOCATION

- Classroom - Accessible to students/staff
- Can fit ~20-30 students normally, teacher and class supplies
- Space too small to distance all students
- Space for teachers to instruct, walk around classroom
SOLUTION

• Technicians, electric engineers, architectural interior designers

• Let school define specific block for staff cleaning and UV use during vacancy
  • Install UV-Type C lights into classrooms
    • Connect secure controllers for routine use
SOLUTION

- Adjusting the classroom itself to accommodate for person to person teaching
  - Attach plexiglass on teachers desks for protection
- Use online learning where applicable
  - Built in online content to curriculums like homework assignments
  - Teachers given laptops dedicated for online meetings
  - Teacher can record the class for students to reference
BARRIERS TO DESIGN IMPLEMENTATION

- Cost?
  - $250 per sheet of plexiglass (total depends on # of teachers)
  - ~$50 UV-type c light (uvresources.com)

- Equipment?
  - Power tools for glass installation

- Size of space?
  - ~100 meters squared
HOW THIS WILL CHANGE THE SPACE

• Teachers and students will interact differently because some might prefer person-to-person, while others are learning online.
  • Positive
    • Decreased transmission rate
    • Students can verbally communicate with teachers/other students
  • Negative
    • It will be difficult to tell if the student is improving
• The function of the space will change because during quarantine, teachers did not have access to their resources which are in their classrooms.
APPENDICES

- Classroom Picture-
  th.bing.com/th/id/OIP.V17H0pYjKXLBt6a2-SOCoAHaeB?pid=Api&rs=1

- Plexiglass Retailer-
  https://www.dullesglassandmirror.com/covid-guard

- Survey Responses-
  docs.google.com/spreadsheets/d/1ZcB6gWwV4KvKSxxdX9lKQYj18uRSqhGvnaJhFEf3TEI/edit#gid=556523044

- Teacher Interview-
  docs.google.com/document/d/1sQj-iipSctS1N-xT8mcqiRuOSwTEzMjnCRR0lkITNY/edit?usp=sharing

- UV-Type C lights-
  www.uvresources.com/products/rlm-xtreme/