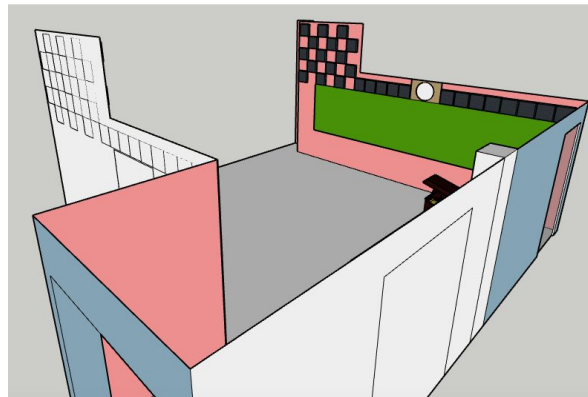


Engineering Club

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As engineers, our main concern is problem solving. So we brainstormed: what problem does BSGE really need fixing? Keeping in mind the mathematical and scientific aspects of engineering, we came up with one, final, project idea. We decided that we will **acoustically treat Mrs. Nikkalos' room**. It would hardly be a stretch to claim that almost every BSGE student has had a run in with Mr. Heine or Mr. Sheridan, complaining about the chaotic sounds shaking the very walls of their rooms. Teachers have the right to teach their class without distraction or interruption and students must be in a focused, and quiet environment when they are working. On the flip side, Mrs. Nikkalos has the right to teach her students creative self-expression through music and not be limited by teacher complaints. We are addressing all of these issues simultaneously by taking on this project.



Curriculum

Week 1: Introduction to acoustical engineering. (Powerpoint)

Week 2: Lesson 1 - How soundwaves work (transmission, absorption and reflection). (Powerpoint)

Week 3: Lesson 3 - How does soundproofing work- acoustics, bass traps, acoustic panels. (Powerpoint).

Week 4: Lesson 4 - Method of Action: How and where to effectively place foam panels to block excess noise without sacrificing the quality of the sound. (Powerpoint)

Week 5: Day 1- Taking full plan to the actual room, and figuring out a proper plan of action.

Week 6: Day 2- Installation.

Week 7: Day 3- Final touches- finishing and testing

Steps: Placement of bass traps.

- Evaluating our shortcomings.
- Plans for extending the project.