

Example + Explanations

Engineering Design Process Lab

15pts _____ Step 1 Ask (what is the need)

What need or problem do I want to answer with my technology design?

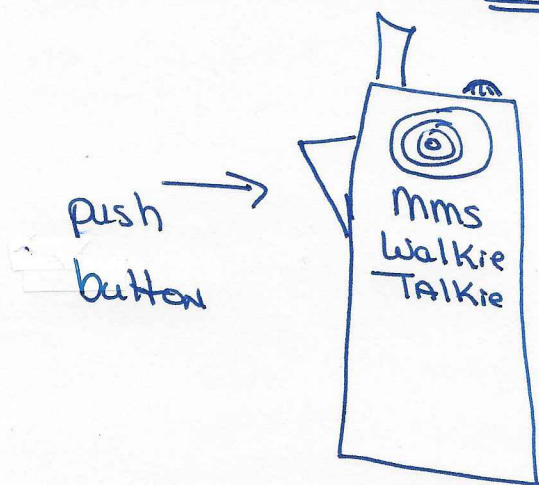
→ Ex. I need a faster way to communicate with the office during a fire drill.

10pts _____ Step 2 Imagine (solution)

The answer or solution to the need or problem

→ Ex. I can design a walkie talkie that uses one button control to operate and speeds up my communication to the office

10pts _____ Step 3 Plan (draw your plan below)



10pts _____ Step 4 Create (make with Kinex) - Did in class

10pts _____ Step 5 Improve (write down the problems during testing)

After creating - what did you do to improve your design

→ Ex. I found if I made the walkie TALKie smaller with only 1 channel - it was more effective.

10pts _____ What is the Intended Benefit of your new technology?

The new designed walkie Talkie was intended to make communication to the office more effective and quicker than a cell phone.

10pts _____ List any Unintended Consequences. (Risks)

The risks of the walkie Talkie were:

- (1) the need to charge often
- (2) Not available if in another part of the Building
- (3) The range of the walkie Talkie may not extend throughout the whole property of MMS.

5pts _____ Followed instructions

5pts _____ Actively participated

5pts _____ Listened to the ideas of others

5pts _____ Helped other members of my group

→ 5pts _____ Completed all tasks to the best of my ability

Rank yourself either a. 1, 2, 3, 4, 5 according to how well you did your best effort

Teacher does these