

Creating a Technology Innovation

Technological innovation is about recognizing a problem that needs to be solved, or recognizing something needs improving and then building a tool to solve it.

Create a notebook (physical or digital) to use for this project. It will be almost like a diary of the design and research you will be completing. There should be several entries as you work through creating an innovation.

1. Select three areas that interest you

- these should have some relation to economy, culture or society

2. For each interest answer the following:

- ❖ What is the area of interest?
- ❖ How does it relate to economy, culture or society?
These can be beneficial or harmful effects.
- ❖ How could technology improve your interest to make it better, faster, or easier to use?
- ❖ What is a problem, or aspect of your interest, that a creative or innovative technology might help solve, or at least make better?

3. Narrow down your final choice to one of your interests

4. Within that area of interest, define a problem that needs to be solved

What is the problem/need you are solving?

Who is affected by it?

5. Design Process:

Keep a notebook (digital or physical) with notes on your design process:

- What are possible solutions?
- What will you need (skills, materials, information) in order to create an innovation?
- Factors that may make the implementation difficult
- What computer/technology are you inventing or improving?
- what is the usefulness (purpose)
- how it works (function)

- what data is being used?
- how is data being input/processed/output
- beneficial effects
- harmful effects
- how this product relates to society, culture, or economy
- design interface (how do users interact with your innovation?)
- will it generate any new problems?
- name of final innovation
- potential cost of innovation

6. Finalized Version:

A. Your project notebook - turned in to me or put in your Google Drive folder

B. A presentation about your innovation - this can be done in any media that you wish to use - some possibilities are:

short video

handmade poster/infographic

presentation tool (prezi, timelineJS, eMaze, etc)