Project Proposal

The purpose of this proposal is to help you as a team of students identify your project goals and design your plan for how you will achieve this project. This document is 'living' as it will evolve as you begin this project task. Key is that you as a team communicate with one another and seek feedback from your advisors.

Student(s) _____ Date_____
Advisor _____

Challenge:

The World is on the brink of a 'global meltdown.' We have observed many results of climate change and have been called to work together to address one or more of the United Nation's Sustainable Goals.



Think about your own community- which problem areas have you observed? Jot down your ideas below: (Include a title and example of evidence: i.e. *Access to Clean Energy- use of propane or wood to provide energy for cooking or electricity.*)

What solutions do you know already exist for the problems you listed above?

From what has been shared- what goal areas are you most interested in?

Next steps:

1) Form a group of 2 or 3.
2) Share your brainstorms and what inspires you. Discuss as a team if you had a magic wand what one improvement would you bring to your community.
3) Look at the two different contests:
    a) 2022 Jacobs Teen Innovation Challenge (Deadline: 30April; open format)
    b) World of 7Billion (Deadline:22Feb; video format)

4) Decide your pathway and complete your proposal.

Complete the steps below.

Note that these steps follow a Design Thinking Process to help you develop the best solution possible. The content you write below is for you to synthesize your team's thinking and share it with your advisor. Your advisor will read it and give you feedback. It might be shared with experts to also provide you feedback.

1. Introduction

A) *What problem/ sustainable goals are you thinking about addressing? Why is this topic a problem for your community? (Share why you have chosen the topic and cite specific evidence that you have identified to support your claim that this is a problem area for your community.)*

B) *What is your project? Write the question(s) you are trying to answer.*

C) *Describe the project in a sentence or two.*

D) *Then talk about why you are interested in this work and chose this project. What do you hope to learn through this work?*

What is your product? What will you create? Why is important to you? (The product will be your invention, experiment or results from your survey. It might also be a video presentation or some kind of community action.)

Will you be entering your project into one or both of the competitions? Which one?

2. Empathy

Describe the people and their challenges that you are addressing with this project. Who are they? What might be some of the causes for this problem?

How is your project real? Describe the products you will be creating as a part of this project. Who will benefit from this work?

3. Define

What framing questions or hypotheses do you have around this work? (5-15 specific questions) Describe key terms and what they mean in the context of this project. (For example: recycling rubbish may on be taking discarded plastic bottles for your invention and not all rubbish.) Describe the process you will use to answer your framing questions.

A) The questions we want to explore about our topic are:

Term Definitions	Examples of the term in your project

B) Have you looked at your contest's website and reviewed all the content and resources there?

C) Do some initial research on your topics- write up some notes to capture your learning.

D) List any evidence you will have to show at your exhibition/ presentation. This includes notes, drafts, research, reflections, etc. If entering a contest then this would be what you submit for that.

4. Ideate

Brainstorm your innovations or solutions or content for your video…

5. Prototype

What resources will you use?

How might you go about building a proto-type? or storyboard?

What resources (specific people, books, websites, materials) will you use to accomplish your innovation?

6. Evaluate and Refine

How should your work be evaluated? How will you reflect on your work? Look at the project rubric and your contest's judging criteria and determine if there are other areas you would want to include.

Describe the criteria you want to use to decide if your work is complete.

What models will you use to create your project?

How often will your work be critiqued?

How many drafts will you do?

What will you show at your exhibition?

7. Timeline

(see guide to creating a project timeline) online or in print materials. Create your timeline: The total project will be due May 1st. ***Plan Backwards****:*

Date	*Achieved Task*	*Follow Up*
1May22	*Turned in Final Project*	
30April22	*Submitted Entry to Jacobs Teen Foundation Contest*	
1April22	*Revise any challenges*	
15March22	*Progress check on all projects*	
22Feb22	*DEADLINE to submit video for 7Billion*	
30Jan22	*Solutions Identified; Video storyline written for 7Billion World*	
20Jan22	*Teams formed; SDG Goal identified*	
10Jan22	*Project Launch- Design Thinking Reviewed*	

8. Marking criteria (Teacher will choose and modify what will be used for marking your assignment.)

RUBRIC

How to Use Rubrics:
https://drive.google.com/file/d/1ddNGetkG1vIJpCcip_VhPbls0uaKUm8h/view?usp=sharing

Sample Creativity and Innovation Rubric:
https://drive.google.com/file/d/1kTfLgyd9fPQ9_9nhxMKVCdhtgnHvIUfs/view?usp=sharing

Presentation Rubric Sample:
https://drive.google.com/file/d/1xNHN82M2e0Zv3Zyf51vO8_zUp5hp-wBb/view?usp=sharing

Part 2: Reflection

Directions: Complete this section when you finish your project. Respond to the following questions with depth and specific examples. Your reflection should be typed and address all numbered questions.

Did your project truly require you to:

1. *Create your own learning* and thus teach you to design your work instead of learning how to just follow orders?
2. Become *independent learners* who can take responsibility, plan a project, manage time wisely, and keep organized?
3. Improve your *personal qualities*; you need to complete your work with urgency, integrity, and consistency?
4. Use the *5A's*

Authenticity: Was your project as meaningful as you hoped? Did you find it was meaningful for the reasons you anticipated?

Active Learning: Was the project as "hands on" as you planned it to be? What object did you create or is associated with your learning? What did you learn that will stick with you?

Adult Relationships: What did you learn from the adult relationships you utilized in this project?

Academic Rigor: Did you find any academic aspects of the project to be too difficult or too easy for you? What did you enjoy learning the most?

Assessment: How well did you anticipate the standards for this project? Were there any standards you hadn't anticipated? Did you learn any lessons for having a more successful project next time?