

***Green Design Project***

Designed by Frances Perkins Academy

You are an environmental scientist hired by the city of New York. Your job, if you choose to accept it, is to come up with a series of design changes to **[INSERT SCHOOL NAME]** to help make it a more environmentally friendly school building. You will present your design changes as a poster or PowerPoint presentation.

Your proposed changes must address each of the following environmental issues currently facing NYC:

1. Global Warming
2. Direct Harvesting of natural recourses resulting in habitat loss
3. Ecosystem destruction due to invasive species
4. Pollution due to industrial activities (toxic waste)
5. Loss of species (extinction)
6. Increased demand on limited recourses like fresh water, timber, and fossil fuels
7. Excess waste and garbage entering the ecosystem

Project Requirements:

For each improvement you are making you must:

1. Describe the design change you are making and how much it will cost to make the changes
2. Explain the environmental problem(s) it helps solve
3. Include a diagram or picture

Project Timeline:

1. Discovering environmental problems at school
2. 2-3 days in class to research and brainstorm design changes for our school
3. 3 days to put all the information together (on your own time)
4. Final due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Deliverables: You must turn in

1. Brainstorming graphic organizer
2. Design improvement presentational tool (Poster or Powerpoint)

***Rubric***

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| --- | --- | --- | --- | --- | --- |
| **Core Values** | **Inquiry**  Did you solve the problem being presented to you? | **Process**  Did you take all the necessary steps to follow the problem and complete all components of the project? | **Creativity**  The solutions you show off in your project reflect your personal style, interests, and passions | **Empathy**  I am aware of the importance of my project to the community | **Craftsmanship**  My project is well made and is of professional quality |
| 1 | No, I did not solve the problem | No, I did not complete all steps in the project | No, my project does not show off my personal style, passions, and interests | No, it is not clear from my project that I’m aware of the importance of it to the community | My project is not well made. It is messy, has typos, and looks unfinished |
| 2 | Yes, I solved the problem, but I didn’t include all necessary solutions | I completed most steps in the project, but not all of them | My personal style is present in portions of my project, but not all | It is somewhat clear from my project that I am aware of its importance to the community | My project is well made in parts, but could still use some revisions |
| 3 | Yes, I solved the problem, but I did not present all possible solutions | Yes, I completed all steps in the project | My personal style, passions, and interests are present in my presentation | It is clear from my project that I am aware of its importance to the community | My project is clearly revised and well made |
| 4 | Yes, I solved the problem and presented a variety of practical solutions | Yes, I completed all steps in the project and completed them thoroughly | My personal style, passions, and interests are so clearly present in my presentation that you can tell it’s mine immediately | It is very clear that I know the importance of my project | My project is well made and revised. It is of professional quality |

***Name:*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ***Total (out of 20):***  \_\_\_\_\_\_\_\_\_\_\_