Human Impact and Pollution Overview

In this project, students will

1. As a group, create a flyer/visual to alarm the community about the pollution found within their area.

2. Individually, write a paragraph explaining how their role within the community impacts or is impacted by the pollution in your area, which will be presented at the upcoming Town Hall Meeting.

3. Individually, devise a plan of action (to alleviate the pollution found within your area), which will be presented at the upcoming Town Hall Meeting. Be sure to incorporate the earth’s spheres in your plan.

4. As a group, develop a model and a solution to explore how to reduce the human impact.

Possible Locations

1. Beijing, China
2. Pakistan
3. Flint, Michigan
4. Kabwe, Zambia
5. Mexico City
6. Israel: Jordan River
7. Ethiopia
8. Argentina

Resources:

1. Pollution: https://www.nationalgeographic.org/encyclopedia/pollution/
4. Pollution (use the search bar to examine your specific form of pollution): https://www.eekwi.org/
7. Watershed: https://www.kqed.org/quest/69046/navigate-a-watershed
8. Earth as a system: https://lpb.pbslearningmedia.org/resource/ess05.sci.ess.earthsys.hologlobe/earth-as-a-system/
10. Air Pollution: http://ciese.org/curriculum/airproj/
12. Land: https://www.epa.gov/report-environment/land
13. Solutions: https://www.telluric.uk.com/case-studies/
## Human Impact and Pollution Rubric

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<th>Overall Grade /</th>
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### Creating the Flyer
1. Clearly describes
   - your form of pollution in your community
   - a possible source of your pollution
   - your pollution’s effect on the community
2. Clearly labels the town hall
   - who will be conducting the Town Hall Meeting
   - meeting date, time, and location
3. Uses two sources of reliable information
4. Information is accurate and contains terminology associated with the topic
5. Creatively Designed

### Informational Paragraph

- Paragraph includes
  1. Who you are and your stance within the community (expertise, citizenship, etc.)
  2. How does pollution impact the community?
  3. Support your claim using reliable sources
  4. Provide relevant information concerning the community and/or pollution as it relates to your role within the community
  5. Interesting points/facts concerning your form of pollution
  6. Organized

### Designing a Plan of Action

- Clearly describes
  1. The type of pollution you are combating
  2. How your pollution influences other forms of pollution: incorporate earth’s spheres
     - which spheres are being impacted
     - provide evidence and reasoning to support your claim
  3. THE PLAN or a possible solution to reduce the impact of pollution

### Presenting the Plan of Action

1. Use effective presentation etiquette
2. Thoroughly explain your plan and a possible solution - justify your plan
3. Compose through answers to all question posed, if applicable

### Develop a model and a solution and presentation

1. Identify a group consensus model
2. The solution and model are parallel in their purpose
3. Justification of the model’s design as it relates to your form of pollution and its impact on earth’s spheres
4. Engaged in the creation of the model and solution

### Participation and Behavior

1. Complete the required tasks
2. Complete tasks on time
3. Provide feedback
4. Follow group norms and expectations
5. Work collaboratively
Human Impact and Pollution Project-Based Learning Lesson

Thanks for joining the community team to combat pollution in our area. With you today are the committee members for ________________________________ (location). Members of your group include an Environmental Protection Agency (EPA) official, a community member, a doctor, and an Ecologist/Environmentalist. You __________________________ (your name) are the __________________________ (your job title). Your job requires you to conduct research; create a flyer; write a paragraph including informational text about your position and your plan of action; present your problem and solution at the Town Hall Meeting; develop a consensus model and solution for combating your form of pollution; present your model and solution. Every member of your group should be responsible for specific tasks throughout your community activist’s assignment.

Once again, thank you for being a part of the team. You have been selected by your community to inform the community of the pollution found in your area. To accomplish this task, you must complete thorough research to help us understand the form of pollution, the types of pollutants found in your area, and relate your focus to Earth’s system. Therefore, you are required to refer to the rubric continuously because you are on a tight schedule. At the end of Day 2, conduct research and complete your flyer/visual. At the end of Day 4, individual paragraphs should be written and the plan of action should be developed. At the end of Day 5, Town Hall meetings should be conducted, and a consensus model should be chosen. At the end of Day 8, additional research should be conducted. In addition, models and solutions must be developed. Day 9 will consist of model and solution presentations.