

# Acting as Environmental Engineers

## Designing a New Invention Project

### Directions:

1. Think of something you would like to design (be creative!)
2. Follow the Engineering Design Process (Ask, Imagine, Plan, Create, Improve)
3. Complete all of the steps of the process
4. Draw a picture of your design to present (make it neat!)
5. Present your invention design

### Due Dates:

- |              |   |
|--------------|---|
| <b>10/12</b> | Idea of Invention to Design   |
| <b>10/15</b> | “Ask” Step Completed  |
| <b>10/17</b> | “Imagine” Step Completed (make sure to have a list of necessary materials)            |
| <b>10/19</b> | “Plan” Step Completed (make sure to have a list of the materials you decided to use)  |
| <b>10/22</b> | “Create” Step Completed   |
| <b>10/23</b> | Present the Whole Project to the Class (Together we will try to “Improve” the design) |

### What to Hand In:

1. At each due date, the teacher will check the students’ work to make sure they have completed the necessary requirements.
2. On the Final Due Date 10/23, the students need to hand in the whole process they used to design their invention (each step they previously showed the teacher is now all stapled together). Also, the student needs to have a picture or visual of the design to present to the class.

**Acting as Environmental Engineers  
Rubric**

<b>Requirement</b>	<b>Possible Points</b>	<b>Points Earned</b>
<b>“Ask” Step (on time)</b>	<b>2</b>	
<b>“Imagine” Step (on time)</b>	<b>2</b>	
<b>“Plan” Step (on time)</b>	<b>2</b>	
<b>“Create” Step (on time)</b>	<b>2</b>	
<b>Presentation -Had a visual</b>	<b>1</b>	
<b>Presentation -Understanding of the EDP</b>	<b>1</b>	
	<b>10</b>	