**A Solution to Global Warming**

**Design Challenge**

This is a two-part assignment. Part one is a typed explanation describing your invention and the science behind it. Part two is a presentation that requires some kind of visual.

**Scenario**: You are part of a think tank with the task to create an invention to mitigate global warming. What is the science behind your invention? ***You must demonstrate knowledge of what you have learned about the science of global warming. Think about greenhouse gas pollutants, the carbon cycle, magnification of the greenhouse effect, breaking positive feedback loops and/or albedo.*** This invention isn’t about changing people’s behaviors like taking shorter showers or using more efficient light bulbs but allowing everyone to “live large” as they are doing now and still be able to lower Earth’s temperature. You may not just attach alternative energy like solar, wind or hydroelectric to power cars or houses – that technology already exists. Thing big! You may imagine the technology you need to make your invention work exists. You will be pitching your idea to a room full of investors.

**Part I: Description of your Invention (2 paragraphs)**

Rough Draft Due: Friday, February 8 (10 points)

Final Draft Due in Google Classroom: Tuesday, February 12 (24 points)

Paragraph 1 – Describe your invention in detail. Include details like the size, color, what it does/how it works, where you see it being used, etc. What is it called? Do you have a slogan for your invention?

Paragraph 2 – Describe the **science** behind your invention. How does it work to mitigate global warming? Be specific! You must address albedo, the greenhouse effect, greenhouse pollutants, and/or feedback loops and how your invention takes in account the science behind global warming. Be detailed so your science understanding can be assessed.

**Part II: Presentation and The Visual – 28 points**

Final Project Due: Tuesday, February 12 (28 points)

This is your chance to sell your idea to a room full of investors. What visual aid will you use to wow them and explain how the invention works using science? Do you have a catchy name for your invention or a slogan? Here are some examples of visual aids:

* + Sketch or Diagram of invention with labels
  + Poster
  + Mini booklet
  + Adobe Voice
  + Model
  + Minecraft (you will need to bring in device)
  + iMovie
  + Powerpoint/Google Slides
  + Another idea? Get teacher approval first

**See attached rubric for how this assignment will be graded**

**Timeline**

Rough Draft Typed w/printed copy for class:  **Friday 2/8**

Final Draft Typed and uploaded to Google Classroom: **Tuesday 2/12**

**Z**

Presentation with Visual Project Due: **Tuesday 2/12**