Earth Science 11 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk: \_\_\_

**CLIMATE CHANGE PROJECT**

Climate change is currently the greatest threat to humans. Our burning of fossil fuels continues to add more greenhouse gases to the atmosphere, trapping more heat and accelerating global warming. As the temperature of the planet rises, impacts felt globally from the changing climate range from glacier melt and sea level rise, to increased extreme weather and climate refugees.

1. **Choose a topic of interest**

*The* ***specific topic*** *I am interested in learning more about is:*

*I am interested in this topic* ***because****…*

*Signed by Bond \_\_\_\_\_\_\_\_*

|  |  |  |
| --- | --- | --- |
| **CAUSES** | **EFFECT** | **ACTION** |
| Global Warming  Greenhouse Effect  Natural Causes  Human Causes  Reducing Albedo  Increasing Carbon dioxide (CO2) levels  Increasing Methane (CH4) levels  Permafrost Thaw  (Methane Bomb)  Frozen Methane in Lakes  Pollution  Burning Fossil Fuels  (Coal, Oil, Natural Gas…)  Transportation  (Cars, Air, Shipping…)  Food Production and Consumption  (Meat…)  Fast Fashion  Changing Ocean Currents  Rising Temperatures  Logging and Deforestation  Political Inaction  Company Inaction  Individual Inaction and Apathy  Our Consumption Lifestyle | Loss of Biodiversity  Increased Global Warming  1.5 degrees C of Warming  Sea Level Rise  Island Submerging  Ocean Warming  Ocean Acidification Coral Bleaching  Glacier Retreat/Melting  Arctic Sea Ice Decline  Antarctic Ice Sheet Collapse  Desertification  Forest Fires  Drought  Heat Waves  Rainfall Precipitation Patterns  Flooding  Storm Surges  More Frequent Extreme Weather  Groundwater Loss  Climate Refugees  Crop Failure  Tipping Points  Disease  The 6th Mass Extinction | Personal Action  Political Action  Global Protests  Youth Movements  Sustainable Choices  Scientific Models  IPCC Prediction  UN Climate Conferences  Carbon Tax  Stop Removing CO2 from the Ground  Conserving Energy  Alternate Energy Sources  *(Solar, Hydro, Wind, Wave, Geothermal)*  Nuclear Energy  Alternate Fuel Sources  Electric/Hybrid Cars  Biofuels  Planting Trees  Rewilding  CO2 Carbon Capture Technology  Ecojustice  Geoengineering  Nuclear Fusion (Cold Fusion)  Dietary Changes  Adaptation |

1. **Create a inquiry question**

*Signed by Bond \_\_\_\_\_*

1. **Research and Learn about your topic**

* Take notes on separate paper. Let your curiosity lead your inquiry!
* You must **submit** your research notes with your assignment.
* Remember to record where you found your information.
  + Create a list of references in APA format

1. **Create an Visual Product – a way of sharing your new understanding**

* **Suggestions: PPT,**

*My project will be:*

*Signed by Bond \_\_\_\_\_*

1. **Share the Visual Product and write a Final Reflection on Climate Change on: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ASSESSMENT**

**For full marks, you must submit:**

* **This Sheet**
* **Your Visual Product**
* **Your Research Notes**
* **Proper Citations – a Reference List in APA and In-Text Citations**

|  |  |
| --- | --- |
| **Score** | **What it means** |
| 7 | In addition to Score 5 performance, in-depth inferences and applications that go beyond what was taught. Very few errors. |
| 6 | In addition to Score 5 performance, partial success at inferences and applications that go beyond what was taught. |
| 5 | No major errors or omissions regarding any of the information and/or processes (simple or complex) that were ***explicitly*** taught. |
| 4 | No major errors or omissions regarding the simpler details and processes and partial knowledge of the more complex ideas and processes. |
| 3 | No major errors or omissions regarding the simpler details and processes but major errors or omissions regarding the more complex ideas and processes |
| 2 | Partial knowledge of the simpler details and processes but major errors or omissions regarding the more complex ideas and processes |
| 1.0 | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes |
| 0.5 | With help, a partial understanding of some of the simpler details and processes but not the more complex ideas and processes |
| 0.0 | Even with help, no understanding or skill demonstrated |

**Feedback**