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 WarmingGreenhouse EffectNatural CausesHuman CausesReducing AlbedoIncreasing Carbon dioxide (CO2) levelsIncreasing Methane (CH4) levelsPermafrost Thaw (Methane Bomb)Frozen Methane in LakesPollutionBurning Fossil Fuels (Coal, Oil, Natural Gas…)Transportation (Cars, Air, Shipping…)Food Production and Consumption (Meat…)Fast FashionChanging Ocean CurrentsRising TemperaturesLogging and DeforestationPolitical InactionCompany InactionIndividual Inaction and ApathyOur Consumption Lifestyle | Loss of BiodiversityIncreased Global Warming1.5 degrees C of WarmingSea Level RiseIsland SubmergingOcean WarmingOcean AcidificationCoral BleachingGlacier Retreat/MeltingArctic Sea Ice DeclineAntarctic Ice Sheet CollapseDesertificationForest FiresDroughtHeat WavesRainfall Precipitation PatternsFloodingStorm SurgesMore Frequent Extreme WeatherGroundwater LossClimate RefugeesCrop FailureTipping PointsDiseaseThe 6th Mass Extinction | Personal ActionPolitical ActionGlobal ProtestsYouth MovementsSustainable ChoicesScientific Models IPCC PredictionUN Climate ConferencesCarbon TaxStop Removing CO2 from the GroundConserving EnergyAlternate Energy Sources*(Solar, Hydro, Wind, Wave, Geothermal)*Nuclear Energy Alternate Fuel SourcesElectric/Hybrid CarsBiofuelsPlanting TreesRewildingCO2 Carbon Capture TechnologyEcojusticeGeoengineeringNuclear Fusion (Cold Fusion)Dietary ChangesAdaptation |

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**