The Climate Crisis

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is human activity bringing about alarming global warming scenarios and related catastrophes? Or is such thinking a myth brought about by flawed or incomplete science? Finding the answers to these questions has turned global warming into a highly politicized and contentious issue.

Until about 1960, most scientists thought it implausible that humans could actually affect average global temperatures.

Today, most scientists agree that Earth's temperature has risen over the past century and that carbon dioxide is one of the primary greenhouse gases that contribute to global warming. Disagreement persists, however, over whether or not global climate change is a normal environmental variation, and over how big of a problem global warming could become for the planet.

Amidst such controversy, world leaders have met and outlined legal rules, known as the Kyoto Protocol, to limit the emissions of greenhouse gases. One hundred forty countries that collectively represent 61.6% of greenhouse gas emissions worldwide have ratified the Kyoto Protocol.

**Part 1: Reviewing the facts (25 points toward Semester 1 grade)**

(be sure to record any and all sources you use for this and all steps

A. What is global warming and greenhouse effect? (5 points)

Video of overview <https://www.youtube.com/watch?v=Q2igBNKReZo>

B. What is the Kyoto Protocol? (10 points)

1. Main objective? (goal)
2. Main points of agreement?
3. Who is involved (who is not?)

C. 2015 Paris Agreement? (10 points)

1. Main objective? (goal)
2. Main points of agreement?
3. Who is involved (who is not?)

**Part 2: Seems Clear. What’s the “debate”? (20 points toward Semester 1 grade)**

**A. “The Debate” (emergent vs objective truths) Neil deGrasse Tyson** (10 points)

<https://www.youtube.com/watch?v=y1MZ8U8C9c8>

Tyson proposes 2 important concepts:

1. emergent truths vs. objective truths. Explain

2. People are “cherry picking” scientific results based on cultural, political, religious, or economic philosophies. Explain.

**B. The Fourth National Climate Assessment** (10 points)

1. Read the Chapter 1 Summary

https://nca2018.globalchange.gov/chapter/1/

2. Who wrote the report?

3. Political response to report?

<https://www.youtube.com/watch?v=tNnzT7SElP8>

https://www.youtube.com/watch?v=QXe\_6EYvWJA

**Part 3: Your task (100 points toward Exam grade)**

After watching “An Inconvenient Truth” and “An Inconvenient Sequel,” you will create a presentation that provides the OBJECTIVE TRUTHS regarding the topic as well as to expand and explain the philosophies who support the emergent “truths”.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Part 1 | | | | 25 | |
| Part 2 | | | | 20 | |
| Part 3 | | | | | |
| What is Global Warming? (40 points) | | | | Notes | |
| Causes |  | | 10 | Must include:   * 2 graphs * Scholarly sources | |
| Projected outcomes (2) |  | | 10 | Must include:   * 2 graphs * 4 before and after images * Scholarly sources | |
| Solutions |  | | 10 | * Alternative energy figures (5 pts) * Economic outcomes (cost and jobs) (5pts) * Scholarly sources | |
| History  http://www.pbs.org/now/science/climatechange.html |  | | 10 | * Include 5 topics, descriptions, dates, and important “players” | |
| \*every slide must have scholarly citation  May use <https://www.epa.gov/> (search ‘global warming’ for data) | | | | | |
| Other Ideas (30 points)  There are 4 different philosophies that have cast doubt on the above stated objective scientific truths. For 3 of the 4 you will provide specific examples of their “truths,” and why they perpetuate their ideas (motive?). | | | | | |
| **Political (10 points)** | **Cultural (10 points)** | **Religious (10 points)** | | **Economic (10 points)** | |
| Provide example & explain (5pts) | Provide example & explain (5pts) | Provide example & explain (5pts) | | Provide example & explain (5pts) | |
| Explain motive (5pts) | Explain motive (5pts) | Explain motive (5pts) | | Explain motive (5pts) | |
| **\*must include scholarly sources** | **\*must include scholarly sources** | **\*must include scholarly sources** | | **\*must include scholarly sources** | |
| \*every slide must have scholarly citation  May use <https://www.epa.gov/> (search ‘global warming’ for data) | | | | | |
| Your stance? (CER) (30 points) | | | | | |
| * For this final part of your presentation, you will take YOUR stance. You will describe your stance to your peers using 1 or more slides from your presentation to aide in your delivery. Do you stand with the objective truths? Do you want to start a movement? Or are you confused by the cherry picked facts? Do the political, religious, or cultural groups cast too much doubt? | | | | | |
| Your CER must include the following:   * Claim – Your stance on the climate crisis * Evidence – data (from reputable, scholarly source) to back it up * Reasoning – Explains why you have taken your position * Part of grade for this part is based on your verbal presentation to your peers. Must be clear and knowledgeable (10 of 30 points) | | | | | /100 |

Brainstorm:

|  |  |  |  |
| --- | --- | --- | --- |
| **Political (10 points)** | **Cultural (10 points)** | **Religious (10 points)** | **Economic (10 points)** |
| Provide example & explain (5pts) | Provide example & explain (5pts) | Provide example & explain (5pts) | Provide example & explain (5pts) |
| Explain motive (5pts) | Explain motive (5pts) | Explain motive (5pts) | Explain motive (5pts) |