Model for Climate Change Standards 1 & 2

Create a model (concept map, diorama, video, etc) explaining the interconnections of climate change. Make sure to answer the following questions in your model and follow the rubric.

* What are the human causes of global climate change?
* How does climate change affect various organisms in various ecosystems?
* How does climate change affect different locations in different ways?

Create a model  (physical, digital, or images) to illustrate the following:

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| Standards | Exceeds (4) | Meets (3) |  |  |
| GCC Standard 1:  Use & develop a model to illustrate how photosynthesis transforms light energy into stored chemical energy and photosynthesis role in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere. (LS1-5 & LS2-5) | Includes all conditions of Proficient as well as the following:  ❑ Describes the greenhouse effect and how human actions can influence the process of the greenhouse effect  ❑ Describe two actions humans do that can change the carbon cycle | Create a single model includes all of the following:  ❑ Explain the conversion of light energy into stored chemical energy by photosynthesis  ❑  Describe how consumers help and participate in cycling of carbon in the environment  ❑ Illustrate the (re)cycling of carbon through multiple parts of ecosystems  including carbon produced during photosynthesis |  |  |
| GCC Standard 2:  Evaluate the claims, evidence, and reasoning that interactions within ecosystems remain relatively stable, but changing conditions may result in a new ecosystem (LS2-6) | Includes all conditions of Proficient as well as the following:  ❑  Compare and contrast how climate change affects at least two different locations in different ways and support with evidence.  ❑ Two MLA citations to support the identified changes | Includes all of the following:  ❑ Describe two human causes of global climate change  ❑  Describe how climate change affects various organisms in various ecosystems using at least one example |  |  |