**Environmental Sciences 12**

**Atmosphere Unit PRACTICE TEST**

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

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| --- | --- | --- | --- | --- |
| Learning Goal | Beginning | Developing | Proficient | Sophisticated |
| 1. I can discuss global changes to Earth’s atmosphere |  |  |  |  |
| 1. I can explain the implications of greenhouse gases |  |  |  |  |

**Learning Goal #1: I can discuss global changes to Earth’s atmosphere**

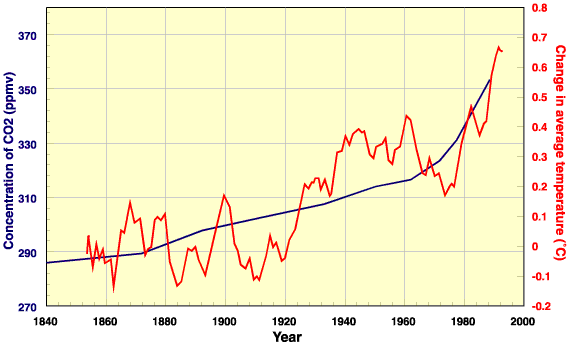
1. Match the below vocab words with the correct definition. Draw a line connecting the matching pair.

|  |  |
| --- | --- |
| **Greenhouse Gasses** | The recapture of carbon dioxide and the storage of carbon in a liquid or solid form |
| **Climate Change** | The process used by plants and other organisms to convert light energy into chemical energy that can later be released to fuel the organisms' activities (energy transformation) |
| **Bad Ozone** | Molecules that absorb and re-emit thermal energy from and into our atmosphere |
| **Good Ozone** | A gas that is in the troposphere and it attracts and clings to smog and pollution |
| **Carbon Sequestration** | The change in Earth’s weather patterns that lasts a long period of time |
| **Photosynthesis** | A gas that is in the stratosphere and it absorbs most of UV-C energy |

1. Complete the chart below that outlines the layers of Earth’s atmosphere. Give a characteristic of each layer.

|  |  |
| --- | --- |
| Layer | Characteristic |
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1. What is the difference between the phrases “global warming” and “climate change”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is this graph showing and what might be causing the trend seen here?

[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwiE_-m-uuraAhVV22MKHUHmDocQjRx6BAgBEAU&url=http%3A%2F%2Fwww.pveducation.org%2Fpvcdrom%2Fintroduction%2Fthe-greenhouse-effect&psig=AOvVaw3rQHMOqx1JpuUQFZP13L67&ust=1525468079918975)

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**Learning Goal #2: I can explain the implications of greenhouse gases**

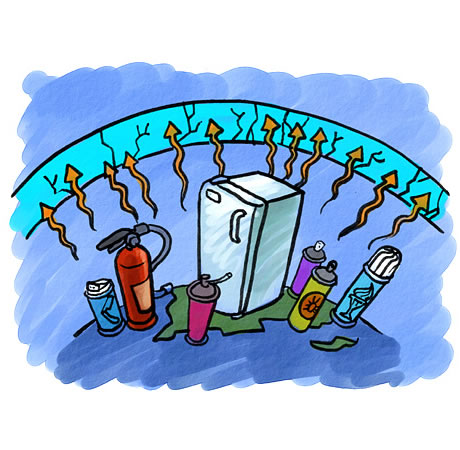
1. Complete the below chart outlining the 3 environmental protocols that have been made since 1980’s. Be sure to add as much detail as you can.

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| Protocol | Year it was ratified | Goals/Focus | Was it Successful? |
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1. What are the 3 main greenhouse gases that are impacting our atmosphere? Complete the chart below.

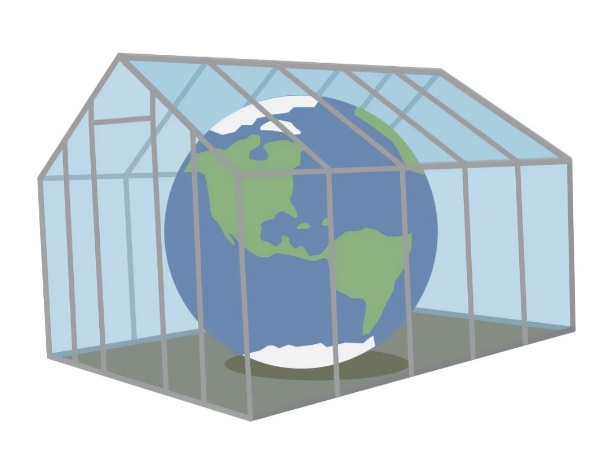
|  |  |  |
| --- | --- | --- |
| Greenhouse Gas | What actions are causing it? | What can we do to help this? |
|  |  |  |
|  |  |  |
|  |  |  |

1. What is this cartoon referring to? What is happening? Why? How is this impacting our atmosphere?

[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwjC-uaNt-raAhVW2WMKHX9qDfAQjRx6BAgBEAU&url=http%3A%2F%2Feducation.rec.org%2Fru%2Fen%2Fozone_depletion%2Fozone_depleting_substances%2Findex.shtml&psig=AOvVaw20rOWnia-j6EgNnUt6fTma&ust=1525467098724240)

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1. How are an actual greenhouse and greenhouse gasses connected?



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