**Environmental Sciences 12**

**Atmosphere Unit PRACTICE TEST**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

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?



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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.

|  |  |  |  |
| --- | --- | --- | --- |
| Protocol | Year it was ratified | Goals/Focus | Was it Successful? |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

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?

 

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_