ES 11 Atmosphere WS Name:

*Uses your notes and text p480-482 to answer the following questions.*

1. What is the difference between climate and weather?
2. Give examples of solid, liquid, and gases that exist in our atmosphere.
3. What are the two most important functions of our atmosphere?
4. What is the importance of ozone?
5. How does ozone form?
6. How do CFC’s destroy ozone?
7. What is air pressure?
8. What are two reasons air gets cooler with altitude (height)?
9. How does sun affect air temperatures?
10. Explain why the stratosphere has different temperatures.
11. If radio waves travel in straight lines, explain how a signal broadcast from one side of the earth’s sphere can be received on the opposite side of the globe.
12. Explain how auroras form.
13. Use your notes to complete the table below

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| --- | --- | --- |
| **Layer** | **How temperature and pressure change as you move higher** | **Important feature** |
| Troposphere | Temperature decreases  Pressure decreases |  |
| Stratosphere |  | Gases are arranged in layers  Contains the ozone layer |
|  |  | Has lowest temperature |
| Thermosphere | Temperature increases  Pressure decreases |  |