**Heating the Atmosphere Review Sheet**

**Chapter 12 and 13 of the Workbook**

**Vocabulary**

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| **Weather**  | **Climate** | **Atmosphere** | **Trophosphere** |
| **Stratosphere** | **Mesosphere** | **Thermosphere** | **Exosphere** |
| **Conduction** | **Convection**  | **Radiation**  | **Albedo**  |
| **Greenhouse Effect**  |  |  |  |

**Questions to think about**

1. What is the difference between weather and climate?
2. What is the composition of Earth’s atmosphere? Which components are important to weather formation?
3. What are the temperature conditions of each layer of the atmosphere? What is one special detail of each layer of the atmosphere?
4. What are two important roles of the atmosphere?
5. How does the angle of incoming solar radiation effect heating of the earth?
6. What creates the unequal distribution of solar energy on Earth?
7. Why does the north pole receive 24 hours of sunlight on the 21st of June? What occurs in the south pole on this date?
8. What are the three paths a ray of sunlight can take as it approaches Earth’s atmosphere?
9. What are some factors that effect albedo?
10. Describe the greenhouse effect? Is it a useful or harmful process?
11. Compare the warming and cooling trends of land vs. water? (use workbook section 13.4 to help you)
12. Explain how the ocean effect a cities climate.
13. Describe how cloud cover effects daily temperatures during the day time and night time.
14. Describe how altitude effects air temperature.