**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Chapter 17 Review**

1. **What is the major component of the atmosphere?**
2. **What is the major primary pollutant and where do half of primary pollutants originate from?**
3. **What is a secondary pollutant and what is an example?**
4. **What is air?**
5. **What important role do carbon dioxide and water vapor play in the atmosphere?**
6. **When did oxygen start to accumulate in the atmosphere?**
7. **Name the 4 major layers of the atmosphere from closest to the surface to farthest away.**
8. **How does pressure change with altitude? Why?**
9. **Which layer of the atmosphere is the thickest? Thinnest?**
10. **Which layer of the atmosphere is the coldest? Hottest?**
11. **Which two layers are of the same thickness?**
12. **What layer contains the ozone?**
13. **Which layers get hotter as you go up in altitude?**
14. **Why is the tropopause important?**
15. **What is the importance of the exosphere?**
16. **What is the importance of the ozone?**
17. **Where is the ionosphere found? Do radio signals travel farther in the day or night? Why?**
18. **What is a temperature inversion?**
19. **In which layer do we see shooting stars?**
20. **What is the difference between heat and temperature?**
21. **Describe the three ways heat energy is transferred in the atmosphere.**
22. **What are the three things that likely happen to solar radiation?**
23. **How much of the solar radiation is absorbed?**
24. **What is an isotherm?**
25. **What is albedo? What is its significance?**
26. **Do places in higher altitudes or lower altitudes experience colder temperatures?**
27. **Do places leeward or windward experience greater temperature extremes?**
28. **Do places near the ocean or blocked by mountains have greater temperatures extremes?**
29. **Does land or water have greater temperature extremes?**
30. **What is the difference between reflection and scattering?**
31. **The layers of the atmosphere are defined based on:**
32. **What are the 4 laws governing radiation?**
33. **What is the difference between tropospheric ozone and stratospheric ozone?**
34. **What is the magnetosphere?**