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

**17.1 Homework**

1. **When did oxygen start to accumulate in the atmosphere?**
2. **What is air?**
3. **What is the major component of air?**
4. **How much of air is carbon dioxide?**
5. **Why is carbon dioxide important in the atmosphere?**
6. **What are three important variable components of the atmosphere?**
7. **Why is water vapor important?**
8. **What is ozone?**
9. **In what layer is ozone located?**
10. **Why is the ozone layer critical to life on earth?**
11. **What is an air pollutant?**
12. **What are the primary pollutants of air?**
13. **What accounts for half of all emission of primary pollutants?**
14. **What is a secondary pollutant?**
15. **What is a photochemical reaction?**
16. **What is atmospheric pressure?**
17. **Which has a high atmospheric pressure-a place in the mountains or a place on the beach?**
18. **What are the four layers of the atmosphere?**
19. **Which layer of the Earth is closest to Earth’s surface?**
20. **What is the importance of the tropopause?**
21. **Which layer is above the stratosphere and below the thermosphere?**
22. **What is the coldest layer in the atmosphere? The hottest?**
23. **Which layer do we see meteors?**
24. **What is the exosphere?**
25. **Where does the ionosphere exist in the atmosphere?**
26. **Is the ionosphere thicker during the day or at night?**
27. **Which layer of the atmosphere is the thickest?**
28. **Which layer extends about 31 miles into the air?**
29. **Which layer mostly contains clouds, rain, wind, and snow?**
30. **Describe the process of temperature inversion in the troposphere and what can a temperature inversion cause?**