Earth’s Atmosphere

1. Composition
2. The atmosphere is a mixture of…
3. Gases: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and

Trace amounts of other gases.

Use p. 427 to represent the percentages of

various gases in the atmosphere.

1. Small particles including \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_ and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Droplets of water and other liquids.
2. Layers of the Atmosphere
3. Troposphere
4. Layer closest to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Contains \_\_\_\_\_\_\_% of the water vapor & \_\_\_\_\_\_\_ % of atmospheric gases
6. Layer which is responsible for our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as you gain altitude in this layer
8. Stratosphere
9. Upper levels contain \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. This layer provides protection from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Radiation

1. Temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as you gain altitude in this layer due to proximity to ozone layer
2. Mesosphere
3. Upper part of mesosphere contains electrically charged particles called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; forming the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Thermosphere
5. Thickest layer
6. Temperatures are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, due to energy received from the sun
7. Energy is not easily \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ due to the low level of molecules (would not feel \_\_\_\_\_\_\_\_\_\_)
8. Lower part of thermosphere contains ions; ionosphere is location of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. Exosphere
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ orbits Earth in exosphere
11. Beyond the exosphere is outer space
12. Changes in the Atmosphere
13. Smog
14. Brownish haze found in population dense areas where automobiles are frequently used
15. Caused by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which chemically react with gases in the atmosphere.

1. Ozone Depletion
2. Chlorofluorocarbons, chemicals used in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

Chemically react with ozone gas in the atmosphere.

1. Sets up a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, destroying even more ozone.
2. Increased levels of CO₂
3. CO₂ is released when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are burned
4. CO₂ is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which absorbs energy from the sun
5. Increases in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may be in part due to the increased presence of greenhouse gases.