

## Atmosphere Study Guide

1. Be able to identify each of the five steps to the water cycle (evaporation, condensation, precipitation, runoff, transpiration)
2. Identify the three major gases in the atmosphere and the percentage:
  - a. Nitrogen 78%
  - b. Oxygen 21%
  - c. Carbon dioxide, other 1%
3. What will happen to the rate of evaporation if temperatures increase? Evaporation will increase
4. What is the distance above sea level called? altitude
5. As altitude increases density decreases
6. As altitude decreases density increases
7. Identify the following process:
  - a. evaporation: liquid to gas
  - b. condensation: gas to liquid when the gas is cooled
  - c. precipitation: clouds become full of water vapor and fall in the form of rain, snow, sleet, hail
  - d. runoff: when water runs off the ground to a body of water or in the form of groundwater
8. Define the following:
  - a. Conduction: transfer of heat through direct contact of two substances
  - b. Convection: transfer of energy from place to place by the motion of a gas or liquid
  - c. Radiation: energy that moves across distances in the form of electromagnetic waves
9. Why is air directly above the ground heated? Due to conduction
10. What layer does weather occur? troposphere
11. What layer does temperature increase and some jets can fly? stratosphere
12. Which layer has the greatest density, greatest amount of water vapor, and support life? troposphere
13. Which layer does temperature decrease as altitude increases? mesosphere
14. Put the layers in order of altitude from Earth to space:  
Troposphere, stratosphere, mesosphere, thermosphere, exosphere
15. Which layer is the hottest? thermosphere coldest? mesosphere
16. Where is the ozone layer found? stratosphere
17. What gas makes up the stratosphere? Ozone gas (O<sub>3</sub>)
18. How do greenhouse gases help heat the atmosphere? Absorbing infrared radiation released by Earth
19. How does carbon dioxide increase temperature? Keeps heat in the atmosphere from escaping into space
20. Carbon dioxide concentrations have dramatically increased over the past decade.
21. What is the greenhouse effect? The process that keeps energy in Earth systems by gases absorbing and emitting infrared radiation
22. Ozone is a protectant in the stratosphere and a pollutant in the troposphere.
23. What are examples of greenhouse gases? Carbon dioxide, water vapor, methane, nitrous oxide
24. Infrared radiation acts as a blanket in our troposphere because it traps heat and sends it back down to Earth's surface.
25. What are fossil fuels and what are the three fossil fuels called? Formed from the remains of once living things: coal, oil, and natural gas
26. What are CFC's and give examples. Chlorofluorocarbons; chemicals that deplete the ozone layer; spray cans, Styrofoam, cooling systems

# Atmosphere Answer Key Packet

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## Atmosphere Answer Key Packet:

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**Scientific and Technical Aerospace Reports** ,1980 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Teacher's Manual and Resource Guide for Exploring the Sciences Herbert Drapkin,1964 **AIAA Aircraft Design Systems and Operations Meeting: 91-3133 - 91-3194** ,1991 *Understanding Weather and Climate* Edward Aguado,James E.

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