

## 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. Chloroflourocarbons; chemicals that deplete the ozone layer; spray cans, Styrofoam, cooling systems

# Atmosphere Answer Key Packet

**Edward Aguado, James E. Burt**



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## **Table of Contents Atmosphere Answer Key Packet**

1. Understanding the eBook Atmosphere Answer Key Packet
  - The Rise of Digital Reading Atmosphere Answer Key Packet
  - Advantages of eBooks Over Traditional Books
2. Identifying Atmosphere Answer Key Packet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Atmosphere Answer Key Packet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Atmosphere Answer Key Packet
  - Personalized Recommendations
  - Atmosphere Answer Key Packet User Reviews and Ratings
  - Atmosphere Answer Key Packet and Bestseller Lists
5. Accessing Atmosphere Answer Key Packet Free and Paid eBooks
  - Atmosphere Answer Key Packet Public Domain eBooks

- Atmosphere Answer Key Packet eBook Subscription Services
- Atmosphere Answer Key Packet Budget-Friendly Options
- 6. Navigating Atmosphere Answer Key Packet eBook Formats
  - ePub, PDF, MOBI, and More
  - Atmosphere Answer Key Packet Compatibility with Devices
  - Atmosphere Answer Key Packet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Atmosphere Answer Key Packet
  - Highlighting and Note-Taking Atmosphere Answer Key Packet
  - Interactive Elements Atmosphere Answer Key Packet
- 8. Staying Engaged with Atmosphere Answer Key Packet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Atmosphere Answer Key Packet
- 9. Balancing eBooks and Physical Books Atmosphere Answer Key Packet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Atmosphere Answer Key Packet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Atmosphere Answer Key Packet
  - Setting Reading Goals Atmosphere Answer Key Packet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Atmosphere Answer Key Packet
  - Fact-Checking eBook Content of Atmosphere Answer Key Packet
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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