

## 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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Tornambè**

## **Atmosphere Answer Key Packet:**

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**Resources in Education** ,2001 The Atmosphere Frederick K. Lutgens,Edward J.

Tarbuck,2007 Using everyday easy to grasp examples to reinforce basic concepts this highly regarded handbook remains the standard introduction to meteorology and the atmosphere components problems and applications Includes the most up to date coverage of topics such as ozone depletion the ultraviolet index temperature dew point temperature and orographic effects wildfires and weather thunderstorms and lightning the record breaking Florida hurricane season effects of air pollution and more Incorporates top quality visuals including new satellite images and illustrations by the award winning Dennis Tasa to demonstrate the highly visual nature of meteorology Uses a largely non technical writing style to help readers grasp important concepts For those interested in learning more about meteorology

The Multicolored Landscape of Compact Objects and Their Explosive Origins Lucio A. Antonelli,Gian L. Israel, Luciano Piersanti,Amedeo

Tornambè,2007-09-18 These two volumes feature the proceedings from a conference held in Cefal Italy in June 2006 The first volume starts with a discussion of gamma ray bursts then examines magnetar candidates and finally explores the properties of supernovae The second volume discusses the properties of pulsars and millisecond pulsars and then covers the properties of interacting binaries containing white dwarfs neutron stars or black hole candidates

Trace Atmospheric Constituents

Stephen E. Schwartz,1983-04-14 Describes the transport transformation and deposition of atmospheric pollutants Includes relevant chemical theory and field studies as well as computer modelling methods

**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.

Burt,2007 The fourth edition of Understanding Weather and Climate has been thoroughly updated throughout Every part of the text has been examined and updated to ensure currency and clarity Integrating the classic textbook model with emerging areas of instructional technology this book focuses on explaining rather than describing the processes that produce Earth's weather and climate The authors encourage a non mathematical understanding of physical principles as a vehicle for learning about atmospheric processes

Geology Edward C. Gruber,1963 **Instructor's Manual with Test Bank to Accompany Meteorology Today** C. Donald Ahrens,1988 The Ladies' Home Journal ,1893 Scientific American ,1874

The Cornhill Magazine William Makepeace Thackeray,1897 **The Cornhill Magazine** ,1897 Publishers' circular and booksellers' record ,1897 **Publishers' Circular and Booksellers' Record of British and Foreign Literature**

,1884 **The Publishers' Circular and Booksellers' Record of British and Foreign Literature** ,1897 Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record ,1897 *Encyclopedia of Global Environmental Change, Set* R. E. Munn,2002 The Encyclopedia is a five volume set with an associated website Originally published in print format in 2002 The Encyclopedia contains 500 authored articles 150 definitions 100 acronyms 100 biographies of widely recognized contributors to global environmental change Each article is prefaced by a few paragraphs aimed at the non specialist level followed by a more rigorous academic review

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