

# Unit 4: Atmosphere and Weather Conditions

## Study Guide

Name Key Date \_\_\_\_\_ Bell \_\_\_\_\_

Test Date \_\_\_\_\_

### Atmosphere

1. What are the layers of the atmosphere in order?  
**Troposphere, Stratosphere, Mesosphere, Thermosphere, Exosphere**
2. Which layer do we live in? **Troposphere**
3. Which layer do airplanes fly in? **Troposphere**
4. What layer is the ozone layer located in? **Stratosphere**
5. What are the two most abundant gases in the atmosphere?
6. **Nitrogen and Oxygen**
7. Do the temperatures in the upper stratosphere rise or fall with an increase in altitude? **Increase**
8. Do the temperatures in the mesosphere increase or decrease with altitude?  
**Decrease**
9. What layer is CFC's blamed for destroying? **Ozone Layer**
10. Which rays are considered harmful? **Ultraviolet (UV)**
11. What is air pressure? **Amount of air pressing down on an area**

### Clouds

12. What are the three parts of the water cycle? **Evaporation, Condensation, and Precipitation**
13. What are the four forms of precipitation? **Rain, Sleet, Hail, and Snow**
14. What are the three main cloud types? **Stratus, cumulus, and cirrus**
15. What are the particles that rise to form clouds? **Dust, smoke, and salt**

# Meteorology Study Guide Answer Key

**J Elliott**



## **Meteorology Study Guide Answer Key:**

**Intro to Meteorology & Astronomy Parent Lesson Planner** ,2014-09-09 Introduction to Meteorology and Astronomy Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Meteorology The Earth was created to be the dwelling place of man It is a complex world and its weather patterns affect our lives every day Whether you live near the equator a polar region or somewhere in between knowledge of the weather is important The Weather Book will teach you why our exact distance from the sun allows life on earth how the weather on the other side of the earth affects you how clouds form and how to identify the different types what the difference is between a cold and warm front why you can often see lightning long before you can hear thunder how to build your own weather station how to survive in dangerous weather what the greenhouse effect and the ozone hole are what Noah s flood and the Ice Age have in common how weatherpersons forecast hurricanes and tornadoes how to read a weather map and what our responsibility is to the environment Learning about the weather is fun It will change the way you look at the clouds in the sky Now you ll have more of an understanding about what is going on miles above your head And when you hear a weather report on television you will understand so much more about the world around you Semester 2 Astronomy One thing we have in common with the ancients is that all of the human race has gazed at the night sky and the bright morning and wondered What s out there Our universe is so vast and awe inspiring that to learn about it is to learn about ourselves The Astronomy Book will teach you what long ago astronomers thought about other worlds solar system facts how constellations relate to astrology the history of space exploration black holes do they exist the origin and age of the moon why Mars doesn t support life the composition of stars supernova remnants and the myth of star birth asteroid legends and the extinction of the dinosaurs are there planets outside our solar system and could they be home to intelligent life what are UFOs and the age of comets and meteor showers Learning about the universe is huge fun In the almost infinite expanse above us we can examine planets galaxies and phenomena so beautiful and complex that we never outgrow a childlike wonder We see our own reflection in the moon the stars and in comet trails The more we learn the less we fear

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