

# Earth's Atmosphere

## Study Guide

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. What is the most abundant gas in the atmosphere? \_\_\_\_\_ By what percent? \_\_\_\_\_  
The second most? \_\_\_\_\_ By what percent? \_\_\_\_\_
  2. Why does water vapor in the atmosphere vary? (Think of the desert vs. a rain forest!) \_\_\_\_\_
  3. What are the functions/importances of the following substances in the atmosphere?
    - a. oxygen \_\_\_\_\_
    - b. carbon dioxide \_\_\_\_\_
    - c. ozone \_\_\_\_\_
    - d. water vapor \_\_\_\_\_
    - e. water \_\_\_\_\_
    - f. ice \_\_\_\_\_
    - g. dust and salt \_\_\_\_\_
  4. Briefly describe the 5 layers of the atmosphere? What is found in each?
    - a. \_\_\_\_\_
    - b. \_\_\_\_\_
    - c. \_\_\_\_\_
    - d. \_\_\_\_\_
    - e. \_\_\_\_\_
  5. Where is the ozone layer? \_\_\_\_\_ Why is it so important to life on Earth? \_\_\_\_\_
  6. How does the temperature vary as one moves up the troposphere? \_\_\_\_\_  
In which layers does molecular heat increase? \_\_\_\_\_  
In which layer does molecular heat decrease? \_\_\_\_\_
  7. Why is the thermosphere said to be the hottest layer when it feels so cold up there? \_\_\_\_\_
  8. How much of the sun's energy does Earth's surface absorb? \_\_\_\_\_ What happens to the rest of it? \_\_\_\_\_
- 
1. What is the boiling point/freezing point of water in Celsius \_\_\_\_\_  
and Fahrenheit \_\_\_\_\_?
  2. Which process creates rain? \_\_\_\_\_
  3. What happens to the density of air as one moves up the atmosphere? \_\_\_\_\_
  4. Review temperature, density, pressure relationships:
    - a. Air in which the temperature has decreased (cold air) will have high / low pressure. Therefore, cold air is more / less dense and will sink / rise.
    - b. Air in which the temperature has increased (warm air) will have high / low pressure. Therefore, warm air is more / less dense and will sink / rise.
  5. What is a temperature inversion? \_\_\_\_\_  
What causes it? \_\_\_\_\_  
What effect does it have on our environment? \_\_\_\_\_

# Atmosphere Study Guide Answers

**David Reuben Turner**



## **Atmosphere Study Guide Answers:**

The Top Books of the Year Atmosphere Study Guide Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Atmosphere Study Guide Answers :

Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Atmosphere Study Guide Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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