

# LAYERS OF THE ATMOSPHERE

**Stratosphere**

The stratosphere extends from the tropopause to the stratopause. It is characterized by a temperature inversion, where temperature increases with altitude. This is due to the absorption of ultraviolet radiation by ozone molecules.

**Thermosphere**

The thermosphere extends from the stratopause to the outer edge of the atmosphere. It is characterized by a temperature increase with altitude, which is due to the absorption of high-energy solar radiation by ionized gases.

**Exosphere**

The exosphere is the outermost layer of the atmosphere, extending from the thermosphere to the edge of space. It is composed of a few atoms and molecules that are not bound to the Earth by gravity.

The diagram illustrates the five layers of the Earth's atmosphere, each with its characteristic temperature profile and key features:

- Troposphere:** Extends from the surface to approximately 10-12 km. Temperature decreases with altitude. Key features include clouds, weather, and the jet stream.
- Stratosphere:** Extends from the tropopause to approximately 50 km. Temperature increases with altitude due to ozone absorption. Key features include the stratopause and the ozone layer.
- Mesosphere:** Extends from the stratopause to approximately 85 km. Temperature decreases with altitude. Key features include the mesopause and meteor showers.
- Thermosphere:** Extends from the mesopause to the outer edge of the atmosphere. Temperature increases with altitude due to ionization. Key features include the ionosphere and auroras.
- Exosphere:** Extends from the thermosphere to the edge of space. It is composed of a few atoms and molecules that are not bound to the Earth by gravity.

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## Science Spot Snapshots

# Section 18 1 Water In The Atmosphere Guided Reading

**Marco Cascella**



## **Section 18 1 Water In The Atmosphere Guided Reading:**

*Intro to Meteorology & Astronomy Teacher Guide* Michael Oard, Danny Faulkner, 2016-06-01 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 **Exploring Earth and Space** Michael DiSpezio, 1995 A textbook exploring such aspects of matter and energy as heat electricity and nuclear chemistry with suggested activities and review questions at the end of each chapter **Airman's Guide** ,1949 *Science Spectrum* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **ASHRAE Handbook of Fundamentals** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1967 **GO TO Objective NEET 2021 Physics Guide 8th Edition** Disha Experts, **Earth Science** ,2002-01-02 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection

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**Congressional Record** United States. Congress,1975 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873  
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