

Name _____

Section _____

The Earth's Atmosphere

Holt Science & Technology Earth Science, Chapter 15, Sections 1

I. The Composition of the Earth's Atmosphere

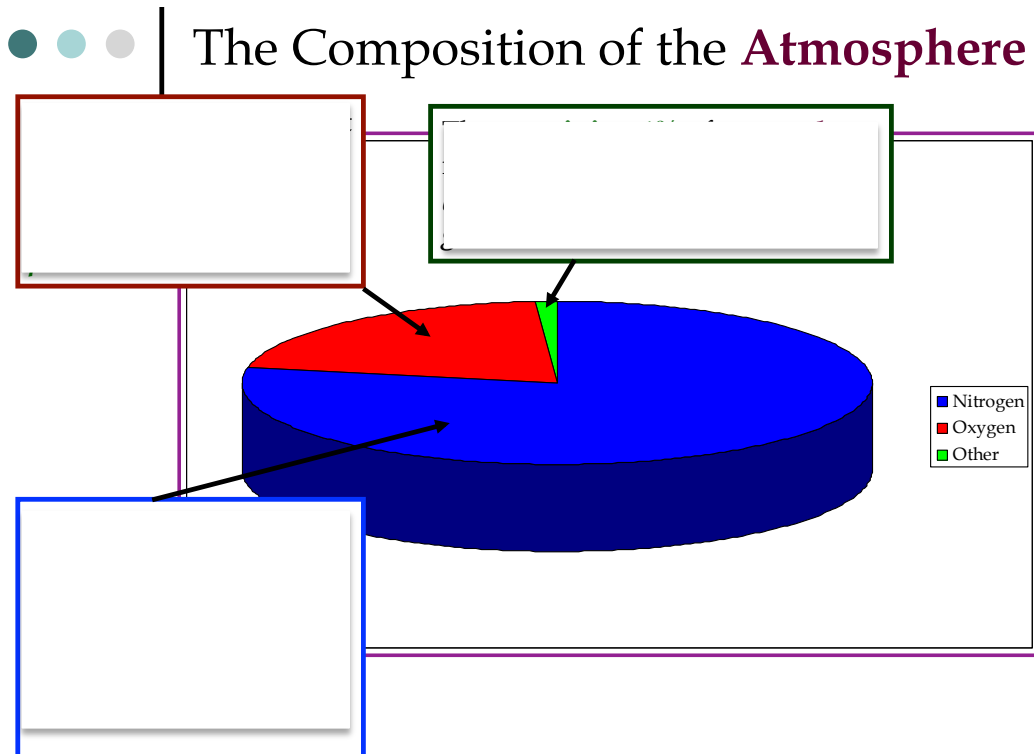
A. **Atmosphere** -

B. The atmosphere is mainly composed of _____.

C. Describe the different forms of water that exist in the atmosphere and where they can be found.

D. What **solid** particles exist in the atmosphere?

E. Fill in the Pie Chart below with the appropriate information



II. Air Pressure

- A. Describe the air pressure that exists at sea level. If that magnitude of air pressure exists, why don't we feel it? Thoroughly explain your thinking.

- B. Thoroughly explain what causes air pressure.

- C. Define **air pressure** –

III. Air Temperature

- A. How does air temperature change as altitude increases?

- B. Why are some parts of the atmosphere warmer than others?

IV. Layers of the Atmosphere

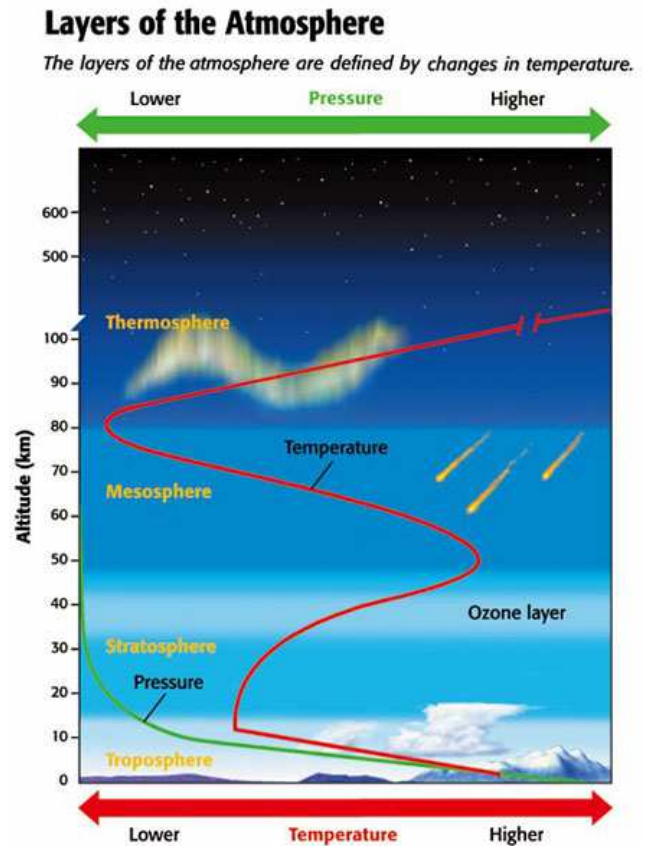
A. Troposphere:

B. Stratosphere:

- Why does the temperature increase as altitude increases in this layer of the atmosphere?

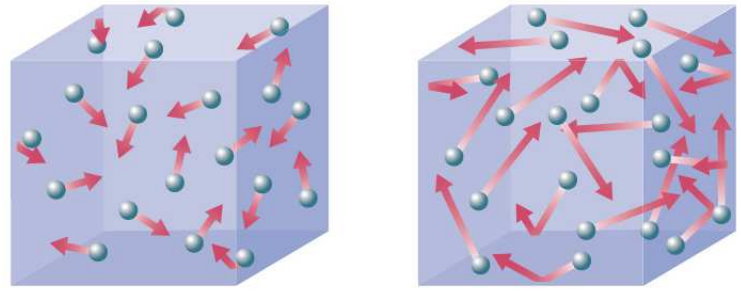
C. Mesosphere:

D. Thermosphere:



V. Heat and Temperature

- Temperature –



Longer arrows mean higher average speed.

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- Heat –

A. Very high temperatures exist in the thermosphere, but it doesn't feel hot. Why not? Thoroughly explain your answer.

B. Ionosphere: