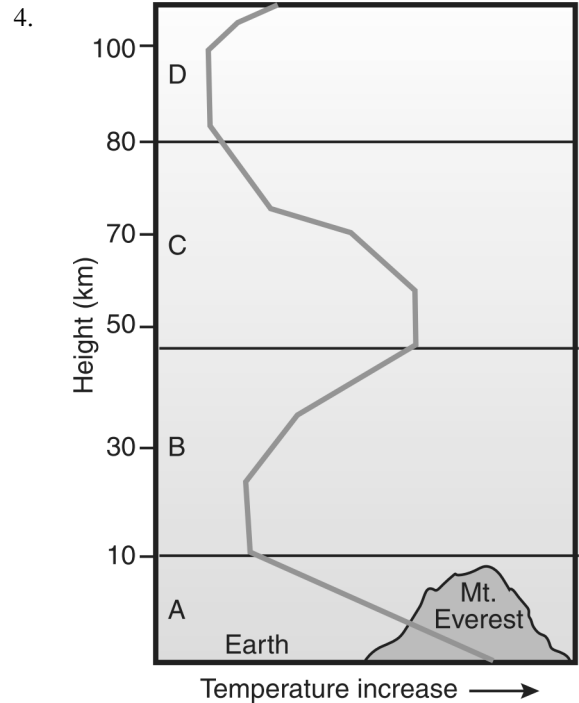


Review Quiz on Earth's Atmosphere

Name: _____

Date: _____

- Which statement *best* describes the ozone layer of Earth?
 - It helps reduce the amount of ultraviolet radiation reaching the surface of Earth.
 - It prevents the formation of severe storms in the stratosphere of Earth.
 - It increases the amount of nitrogen in the troposphere of Earth.
 - It forms a magnetic field in the mesosphere of Earth.
- In which atmospheric layer of Earth do thunderstorms occur?
 - thermosphere
 - mesosphere
 - stratosphere
 - troposphere
- Which gas makes up the largest component of the Earth's atmosphere?
 - argon (Ar)
 - oxygen (O₂)
 - nitrogen (N₂)
 - carbon dioxide (CO₂)



The diagram above shows four layers of Earth's atmosphere. Which of the following correctly labels the layers represented by A, B, C, and D (from Earth moving upward) in the correct sequence?

- troposphere, stratosphere, mesosphere, thermosphere
- thermosphere, mesosphere, stratosphere, troposphere
- troposphere, mesosphere, thermosphere, stratosphere
- mesosphere, troposphere, thermosphere, stratosphere

5. The natural greenhouse is a phenomenon that is beneficial as it results in _____.
- A. the maintenance of Earth's temperature
 - B. a thinning of Earth's atmospheric ozone layer
 - C. an increase in the amount of carbon dioxide in Earth's atmosphere
 - D. the bending of the rays of sunlight that penetrate Earth's atmosphere
6. Why does air pressure decrease from the troposphere to the exosphere?
- A. because there are fewer air molecules as altitude increases
 - B. because there are more air molecules as altitude increases
 - C. because there are higher temperatures as altitude increases
 - D. because there are lower temperatures as altitude increases

7. How does the temperature of the stratosphere compare to the mesosphere?
- A. It is colder than the mesosphere because the stratosphere contains the ozone layer.
 - B. It is warmer than the mesosphere because the stratosphere contains the ozone layer.
 - C. It is colder than the mesosphere because the stratosphere contains the ionosphere.
 - D. It is warmer than the mesosphere because the stratosphere contains the ionosphere.
8. In which layer of the atmosphere do auroras occur?
- A. troposphere
 - B. stratosphere
 - C. mesosphere
 - D. thermosphere
9. In which layer of the atmosphere do most meteors burn up?
- A. troposphere
 - B. stratosphere
 - C. mesosphere
 - D. thermosphere
10. In which layer of the atmosphere is the ozone layer found?
- A. troposphere
 - B. stratosphere
 - C. mesosphere
 - D. thermosphere