

# Components and Layers of the Atmosphere


Interactive test



### First Multiple Choice Questions

Questions signed by \* are answered in detail.

#### The chemical components of the Earth's atmosphere

- 1 Which of the following statements is correct regarding the solar radiation that reaches Earth's atmosphere?
  - (a) The atmosphere retains all the solar radiation that reaches it.
  - (b) The atmosphere retains only a part of the solar radiation.
  - (c) The atmosphere retains only the visible spectrum of solar radiation.
  - (d) The components of the atmosphere absorb all the incoming solar radiation.
  
- 2 Nitrogen makes up 78% of .....
  - (a) the mass of the atmosphere
  - (c) the volume of the atmosphere
  - (b) the weight of the atmosphere
  - (d) both (a) and (b)
  
- 3 Which of the following processes produces nitrogen as one of its products?
  - (a) Photosynthesis.
  - (c) Decomposition of dead plants and animals.
  - (b) Combustion.
  - (d) Respiration.
  
- 4 What do you expect to happen to the percentage of nitrogen oxides in the air under the weather conditions shown in the figure?
 
  - (a) Increases.
  - (b) Decreases.
  - (c) Does not change.
  - (d) The answer cannot be determined.
  
- 5 \* The ratio of the volume of oxygen gas in the air to the total volume of air is approximately .....
  - (a)  $\frac{3}{4}$
  - (d)  $\frac{1}{5}$
  - (b)  $\frac{1}{2}$
  - (c)  $\frac{4}{5}$
  
- 6 Which of the following atmospheric gases is the most chemically active?
  - (a) Oxygen.
  - (b) Nitrogen.
  - (c) Argon.
  - (d) Carbon dioxide.
  
- 7 Which of the following gases is not considered a noble (inert) gas?
  - (a) Nitrogen.
  - (b) Argon.
  - (c) Helium.
  - (d) Neon.