

Grade 4 Science Worksheet 2: Composition and Properties of Air (Difficulty Level: Advanced)

Name: _____

Date: _____

Question 1: Why does the air feel cooler on a windy day?

- a) The wind absorbs heat from the surface.
 - b) The moving air carries away body heat faster.
 - c) The wind increases the air pressure.
 - d) The wind reduces the oxygen in the air.
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Question 2: Which of these explains why air pressure is greater at sea level than at high altitudes?

- a) There is less air at sea level.
 - b) The air is denser at sea level because of the weight of the layers above it.
 - c) The oxygen at sea level makes it heavier.
 - d) Air molecules expand at sea level.
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Question 3: How do plants contribute to the balance of oxygen and carbon dioxide in the air?

- a) They release oxygen during photosynthesis and absorb carbon dioxide.
 - b) They release carbon dioxide and absorb oxygen during photosynthesis.
 - c) They use nitrogen to make oxygen.
 - d) They release water vapor into the air.
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Question 4: Why does compressed air feel warmer than uncompressed air?

- a) The particles are moving faster and collide more often.
- b) The air gains heat from its surroundings.

- c) The air absorbs sunlight.
 - d) The air molecules are smaller.
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Question 5: What happens to air particles when a balloon is deflated?

- a) They stop moving and disappear.
 - b) They escape from the balloon into the surrounding air.
 - c) They combine to form water vapor.
 - d) They get compressed inside the balloon.
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Bonus Question:

Which gas is responsible for blocking harmful UV rays from the sun?

- a) Nitrogen
- b) Oxygen
- c) Ozone
- d) Carbon dioxide