

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

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Question 1: Why do mountain climbers need oxygen tanks at high altitudes?

- a) The air contains no nitrogen at high altitudes.
  - b) The air pressure and oxygen levels are lower.
  - c) The air is too cold to breathe.
  - d) The air contains too much carbon dioxide.
- 

### Question 2: How does air pollution affect the composition of air?

- a) It adds harmful gases like carbon monoxide and reduces oxygen levels.
  - b) It increases the amount of nitrogen in the air.
  - c) It replaces water vapor with dust particles.
  - d) It removes all carbon dioxide from the air.
- 

### Question 3: Why does air expand when heated?

- a) The particles move closer together.
  - b) The particles move faster and spread out.
  - c) The particles lose energy and settle.
  - d) The particles stop moving.
- 

### Question 4: Which layer of the atmosphere contains most of the air we breathe?

- a) Stratosphere
- b) Troposphere

- c) Mesosphere
  - d) Thermosphere
- 

**Question 5: What is the role of argon in the air?**

- a) It helps living things survive.
  - b) It helps balance the temperature of the Earth.
  - c) It is an inert gas with no significant role in daily life.
  - d) It increases the level of oxygen in the air.
- 

**Bonus Question:**

**What is the most important property of air for sustaining life on Earth?**

- a) It is transparent.
- b) It contains oxygen and carbon dioxide.
- c) It takes up space.
- d) It can be compressed.