

## Grade 4 Science Worksheet 3: Composition and Properties of Air (Difficulty Level: Advanced)

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

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

### Question 1: How does air pressure affect the boiling point of water?

- a) Higher air pressure lowers the boiling point of water.
  - b) Lower air pressure raises the boiling point of water.
  - c) Higher air pressure raises the boiling point of water.
  - d) Air pressure does not affect the boiling point.
- 

### Question 2: Which property of air allows it to fill a container of any shape?

- a) Air has weight.
  - b) Air takes up space and flows to fill the shape of the container.
  - c) Air is made of nitrogen.
  - d) Air becomes a solid in a container.
- 

### Question 3: Why is water vapor important in the air?

- a) It helps the air expand.
  - b) It plays a key role in forming clouds and precipitation.
  - c) It blocks oxygen from escaping the Earth.
  - d) It keeps carbon dioxide levels constant.
- 

### Question 4: What happens to carbon dioxide levels in the air if there are fewer trees?

- a) Carbon dioxide levels increase because fewer plants absorb it.
- b) Carbon dioxide levels decrease because it escapes into space.
- c) Carbon dioxide levels stay the same.
- d) Carbon dioxide disappears completely.

**Question 5: Which gas makes up the smallest percentage of air?**

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

**Bonus Question:**

**What happens to air when it is cooled to very low temperatures?**

- a) It expands and becomes lighter.
- b) It contracts and can become a liquid.
- c) It disappears.
- d) It turns into solid particles.