

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

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

## Atmosphere Science Worksheet

Topic: *The Atmosphere*

Instructions: *Choose the best answer for each question.*

### 1. Earth's atmosphere is primarily composed of?

- A) Carbon dioxide and oxygen
  - B) Nitrogen and oxygen
  - C) Hydrogen and helium
  - D) Methane and nitrogen
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### 2. Layer of the atmosphere closest to Earth's surface?

- A) Stratosphere
  - B) Mesosphere
  - C) Troposphere
  - D) Thermosphere
- 

### 3. What is the role of the ozone layer in the atmosphere?

- A) To trap heat and warm the Earth
  - B) To protect the Earth from ultraviolet (UV) rays
  - C) To create weather patterns
  - D) To absorb carbon dioxide
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### 4. Which layer of the atmosphere contains most of the Earth's weather systems?

- A) Troposphere
  - B) Stratosphere
  - C) Exosphere
  - D) Mesosphere
- 

### 5. In which layer of the atmosphere does the International Space Station (ISS) orbit?

- A) Stratosphere
- B) Mesosphere
- C) Thermosphere
- D) Exosphere

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### 6. As altitude increases in the troposphere, what happens to the air pressure?

- A) It increases
  - B) It stays the same
  - C) It decreases
  - D) It fluctuates
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### 7. Which gas is responsible for the greenhouse effect, that warms the Earth's atmosphere?

- A) Nitrogen
  - B) Oxygen
  - C) Carbon dioxide
  - D) Argon
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### 8. The auroras (Northern & Southern Lights) are most often seen in which layer of the atmosphere?

- A) Exosphere
  - B) Stratosphere
  - C) Thermosphere
  - D) Troposphere
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### 9. What is the uppermost layer of the atmosphere?

- A) Troposphere
  - B) Exosphere
  - C) Mesosphere
  - D) Stratosphere
- 

### 10. What is the primary reason for the different temperatures in Earth's atmospheric layers?

- A) The amount of sunlight absorbed
  - B) The distance from the Sun
  - C) The concentration of water vapor
  - D) The thickness of each layer
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***Answer Key:***

1. B
2. C
3. B
4. A
5. C
6. C
7. C
8. C
9. B
10. A