

# Fundamentals of Meteorology

Meteorology · Answer Key · 12 Questions

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**1. Which layer of the atmosphere is closest to the Earth's surface where most weather occurs?**

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

**2. What is the primary source of energy that drives Earth's weather systems?**

- A) The Moon
- B) Volcanic activity
- C) The Sun**
- D) Ocean currents

**3. Which instrument is used specifically to measure atmospheric pressure?**

- A) Anemometer
- B) Hygrometer
- C) Barometer**
- D) Thermometer

**4. What are clouds primarily composed of?**

- A) Water droplets or ice crystals**
- B) Pure oxygen
- C) Condensed smoke
- D) Carbon dioxide

**5. Which gas makes up the largest percentage of Earth's atmosphere?**

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen**
- D) Argon

**6. What term describes the amount of water vapour present in the air?**

- A) Precipitation
- B) Humidity**
- C) Evaporation
- D) Condensation

**7. What is an anemometer designed to measure?**

- A) Wind speed**
- B) Air temperature
- C) Cloud height
- D) Rainfall amount

**8. At what temperature does water freeze in the Celsius scale?**

- A) 100 degrees
- B) 50 degrees
- C) 10 degrees
- D) 0 degrees**

**9. Which type of severe weather is defined by a rapidly rotating column of air extending from a thunderstorm to the ground?**

- A) Tornado**
- B) Hurricane
- C) Blizzard
- D) Drought

**10. What is the process called when liquid water turns into water vapour?**

- A) Freezing
- B) Evaporation**
- C) Sublimation
- D) Precipitation

**11. Which instrument is used to measure the amount of rainfall?**

- A) Rain gauge**
- B) Wind vane
- C) Psychrometer
- D) Barograph

**12. What do meteorologists call a high-pressure system that typically brings clear, calm weather?**

- A) Anticyclone**
- B) Cyclone
- C) Depression
- D) Trough