

Meteorology Basics for Teens

Meteorology · Answer Key · 15 Questions

1. What gas makes up the largest percentage of Earth's atmosphere?

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

2. Which layer of the atmosphere is closest to the Earth's surface?

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

3. What instrument is used to measure air pressure?

- A) Thermometer
- B) Anemometer
- C) Barometer**
- D) Rain gauge

4. What is the main source of energy for Earth's weather systems?

- A) The Moon
- B) Geothermal heat
- C) The Sun**
- D) Ocean currents

5. What do we call the process of water vapor turning into liquid water, forming clouds?

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

6. Which type of cloud typically brings thunderstorms?

- A) Cirrus
- B) Cumulus
- C) Stratus
- D) Cumulonimbus**

7. What is the term for wind that blows from the sea to the land during the day?

- A) Land breeze
- B) Jet stream
- C) Sea breeze**
- D) Trade wind

8. What is the unit commonly used to measure wind speed?

- A) Meters per second
- B) Kilometers per hour
- C) Miles per hour
- D) All of the above**

9. What is the scientific study of the atmosphere and its phenomena called?

- A) Geology
- B) Oceanography
- C) Meteorology**
- D) Astronomy

10. What is the term for the imaginary line around which the Earth rotates?

- A) Equator
- B) Prime Meridian
- C) Axis**
- D) Tropic of Cancer

11. What type of precipitation is formed when ice crystals fall from clouds?

- A) Rain
- B) Sleet
- C) Hail
- D) Snow**

12. Which force causes air to move from areas of high pressure to areas of low pressure?

- A) Gravity
- B) Friction
- C) Pressure gradient force**
- D) Coriolis effect

13. What is the term for the average weather conditions in a particular region over a long period?

A) Weather forecast

B) Climate

C) Season

D) Atmospheric pressure

14. What instrument measures the amount of rainfall?

A) Barometer

B) Thermometer

C) Anemometer

D) Rain gauge

15. Which part of the atmosphere contains the ozone layer?

A) Troposphere

B) Stratosphere

C) Mesosphere

D) Exosphere