

Weather and Climate Study Guide

Science · Answer Key · 20 Questions

1. What is a destructive funnel cloud associated with?

- A) A blizzard
- B) A tornado**
- C) A thunderstorm
- D) A hurricane

2. What weather condition does a blizzard cause?

- A) Dry conditions
- B) Strong winds and rising sea
- C) Heavy, blinding snow**
- D) Wind, rain, and lightning

3. Which weather event causes wind, rain, and lightning?

- A) A drought
- B) A flood
- C) A thunderstorm**
- D) A hurricane

4. What is the main characteristic of a drought?

- A) Heavy, blinding snow
- B) Dry conditions**
- C) Rising water
- D) Strong winds

5. A hurricane is characterized by strong winds, rain, and what else?

- A) Blinding snow
- B) Rising sea**
- C) Dry conditions
- D) Lightning

6. What is a defining characteristic of a flood?

- A) Dry conditions
- B) Heavy, blinding snow
- C) Rising water**
- D) Lightning

7. What is wind defined as?

- A) The layer of gases surrounding Earth
- B) The movement of air**
- C) Water vapor in the air
- D) Invisible boundary between air masses

8. Which of the following are examples of precipitation?

- A) Wind and air pressure
- B) Rain, snow, and hail**
- C) Evaporation and condensation
- D) Humidity and altitude

9. What is the atmosphere?

- A) The movement of air
- B) The layer of gases that surround the Earth**
- C) The pattern of weather over a long time
- D) The weight of the atmosphere pressing down

10. What is a scientist who studies weather patterns called?

- A) Geologist
- B) Biologist
- C) Meteorologist**
- D) Astronomer

11. What is the pattern of weather over a long time known as?

- A) Weather
- B) Climate**
- C) Atmosphere
- D) Front

12. What is the invisible boundary that separates two air masses called?

- A) Atmosphere
- B) Climate
- C) Front**
- D) Altitude

13. How do scientists learn more about weather and make predictions?

- A) By observing tides
- B) By studying data**
- C) By listening to the wind
- D) By feeling the air pressure

14. What does it mean if there is a lot of water vapor in the air?

- A) It is dry outside
- B) It is humid outside**
- C) It is windy outside
- D) It is cold outside

15. What is the process called when liquid water changes into water vapor?

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

16. What is the weight of the atmosphere pressing down onto Earth called?

- A) Altitude
- B) Humidity
- C) Air pressure**
- D) Front

17. Which location has a higher altitude?

- A) A location on a beach
- B) A location on a mountain**
- C) Both have the same altitude
- D) Cannot be determined

18. What is the process where water vapor changes into liquid water?

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

19. What is the term for water falling from the atmosphere?

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

20. What is the process where water gathers in bodies of water or on land?

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