

Cyclones Quiz Answer Key PDF

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What is the calm center of a cyclone called?

- A. Eye Wall
- B. Eye ✓**
- C. Rainband
- D. Vortex

Cyclones that occur in the Atlantic Ocean are commonly known as:

- A. Typhoons
- B. Hurricanes ✓**
- C. Tornadoes
- D. Monsoons

What is the term for elevated water levels caused by cyclones?

- A. Tsunami
- B. Storm Surge ✓**
- C. Floodplain
- D. High Tide

Explain how the Saffir-Simpson Scale categorizes cyclones.

The Saffir-Simpson Scale categorizes cyclones based on wind speed, ranging from Category 1 (least severe) to Category 5 (most severe), indicating potential damage and impact.

Describe the process of cyclone formation over warm ocean waters.

Cyclones form over warm ocean waters when the heat and moisture from the ocean surface rise, creating low pressure. The Coriolis effect causes the air to rotate, forming a cyclone.

What are the differences between tropical and extratropical cyclones?

The main differences are that tropical cyclones form over warm waters and have a warm core, while extratropical cyclones form over land or cooler waters and have a cold core.

Discuss the impact of a historical cyclone on a specific region.

Answers will vary; an example is Hurricane Katrina, which caused widespread flooding and damage in New Orleans in 2005.

How do meteorologists predict the path and intensity of cyclones?

Meteorologists use satellite data, computer models, and historical data to predict cyclone paths and intensity, issuing warnings based on these predictions.

Which scale is used to measure the strength of tropical cyclones?

- A. Richter Scale
- B. Fujita Scale
- C. Saffir-Simpson Scale ✓**
- D. Beaufort Scale

What measures can communities take to prepare for an approaching cyclone?

Communities can prepare by creating evacuation plans, securing property, stocking emergency supplies, and staying informed through weather updates.

Which of the following are parts of a cyclone?

- A. Eye ✓**
- B. Eye Wall ✓**
- C. Rainbands ✓**

D. Core

Which category on the Saffir-Simpson Scale indicates the most severe cyclone?

- A. Category 1
- B. Category 3
- C. Category 4
- D. Category 5 ✓**

What factors contribute to cyclone formation?

- A. Warm ocean waters ✓**
- B. High atmospheric pressure
- C. Coriolis effect ✓**
- D. Cold air masses

What are common effects of cyclones?

- A. Wind Damage ✓**
- B. Earthquakes
- C. Storm Surge ✓**
- D. Heavy Rainfall ✓**

Which ocean is least likely to experience cyclones?

- A. Atlantic Ocean
- B. Pacific Ocean
- C. Indian Ocean
- D. Arctic Ocean ✓**

Which part of a cyclone is characterized by the strongest winds and heaviest rains?

- A. Eye
- B. Eye Wall ✓**
- C. Rainband
- D. Outer Bands

Which regions are frequently affected by cyclones?

- A. Atlantic Ocean ✓**
- B. Pacific Ocean ✓**
- C. Indian Ocean ✓**
- D. Mediterranean Sea

Which safety measures are important during a cyclone?

- A. Evacuation plans ✓**
- B. Building sandcastles
- C. Securing loose objects ✓**
- D. Ignoring warnings

Which of the following are historical cyclones?

- A. Hurricane Katrina ✓**
- B. Cyclone Tracy ✓**
- C. Typhoon Haiyan ✓**
- D. Tornado Alley

What is the primary energy source for cyclone formation?

- A. Cold air currents
- B. Warm ocean waters ✓**
- C. Mountain ranges
- D. Desert heat