

## Hurricanes Quiz Answer Key PDF

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**Describe the impact of Hurricane Katrina on New Orleans and the surrounding areas.**

**Hurricane Katrina caused widespread flooding, significant loss of life, and extensive property damage, particularly due to levee failures in New Orleans.**

**What are the primary components of a hurricane's structure, and how do they contribute to its overall dynamics?**

**A hurricane's structure includes the eye (calm center), eye wall (intense winds and rain), and spiral rainbands (outer areas of rain and wind). These components contribute to the hurricane's strength and impact.**

**Which part of a hurricane is typically calm and clear?**

- A. Eye wall
- C. Spiral rainbands
- D. Outer bands
- C. Eye ✓**

**What is the minimum wind speed for a storm to be classified as a hurricane?**

- A. 39 mph
- C. 74 mph ✓**
- D. 96 mph
- C. 58 mph

**During which months does the Atlantic hurricane season officially occur?**

- A. May to October
- C. July to December
- D. August to January

**C. June to November ✓**

**Explain the difference between a tropical depression, a tropical storm, and a hurricane.**

**A tropical depression has wind speeds less than 39 mph, a tropical storm has wind speeds between 39 and 73 mph, and a hurricane has wind speeds of 74 mph or higher.**

**Discuss the role of meteorological organizations in forecasting and tracking hurricanes.**

**Meteorological organizations use satellite data, weather models, and reconnaissance aircraft to predict hurricane paths and intensities, issuing warnings to help mitigate damage and loss of life.**

**Which ocean is NOT typically associated with hurricanes?**

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

**Which safety measures are recommended during a hurricane? (Select all that apply)**

- A. Evacuation plans ✓**
- C. Building sandcastles
- D. Securing properties ✓**
- C. Emergency kits ✓**

**What factors contribute to the formation of hurricanes? (Select all that apply)**

- A. Warm ocean water ✓**
- C. High atmospheric pressure
- D. Moisture in the air ✓**
- C. Light winds aloft ✓**

**Which of the following hurricanes was the costliest in U.S. history?**

- A. Hurricane Andrew
- C. Hurricane Sandy

D. Hurricane Harvey

**C. Hurricane Katrina ✓**

**What are the stages in the lifecycle of a hurricane? (Select all that apply)**

**A. Formation ✓**

C. Erosion

**D. Dissipation ✓**

**C. Maturity ✓**

**Which of the following are effects of hurricanes? (Select all that apply)**

**A. Storm surge ✓**

**C. Heavy rainfall ✓**

D. Earthquakes

**C. tornadoes ✓**

**What scale is used to classify the intensity of hurricanes?**

A. Richter Scale

**C. Saffir-Simpson Scale ✓**

D. Beaufort Scale

C. Fujita Scale

**How do hurricanes affect the economy of affected regions? Provide examples.**

**Hurricanes can cause billions in damages to infrastructure, disrupt industries like tourism and agriculture, and require costly recovery efforts. For example, Hurricane Harvey caused significant economic disruption in Texas.**

**In what ways can individuals and communities prepare for the hurricane season to minimize damage and ensure safety?**

**Preparation includes creating evacuation plans, assembling emergency kits, securing homes, and staying informed through official weather updates.**

**What is the primary source of energy for a hurricane?**

- A. Cold air masses
- C. Warm ocean water ✓**
- D. Solar radiation
- C. Ocean tides

**What phenomenon causes hurricanes to rotate counterclockwise in the Northern Hemisphere?**

- A. El Niño
- C. Coriolis Effect ✓**
- D. Jet Stream
- C. La Niña

**How does climate change potentially affect hurricanes? (Select all that apply)**

- A. Increases frequency ✓**
- C. Decreases intensity
- D. Increases intensity ✓**
- C. Changes patterns ✓**

**Which regions are commonly affected by hurricanes? (Select all that apply)**

- A. Caribbean Sea ✓**
- C. Mediterranean Sea
- D. Gulf of Mexico ✓**
- C. Eastern Pacific Ocean ✓**