



Student Exploration: Hurricane Motion

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Hurricanes and Indications

Mount View Middle School (G/T Earth Science Class)

Hurricanes and Indications
Overview/Gizmo

Gizmo Warm-up

You can use data collected from weather stations to study the characteristics of hurricanes. The *Hurricane Motion* Gizmo has three simulated weather stations. Turn on **Show weather station data**. Make sure **Wind**, **Cloud cover**, and **Pressure** are all checked.

The tails on each station symbol point in the direction the wind is coming from. The flags on the tail indicate wind speed, measured in **knots**. (One knot is equal to 1.15 mph.) A short line extending from the tail indicates 5 knots of wind. A longer line indicates 10 knots. A triangular flag indicates 50 knots. Add all the flags together to get the wind speed.



The number in the station's upper right is the **air pressure**, which is measured in millibars (mb).

The circle symbol indicates the percentage of cloud cover, as shown in the table at right.

Degree of Cloud Cover

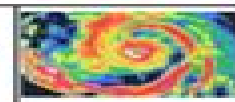
Clear	1/8	1/4	3/8	1/2	5/8	3/4	7/8	Overcast

Activity A:

Hurricane characteristics

Get the Gizmo ready:

- Make sure **Practice**, **Show hurricane**, and **Show weather station data** are selected.



Introduction: Hurricanes form when an area of low pressure forms over warm water. Winds blow toward the low pressure, but are deflected by Earth's rotation. The **Coriolis effect** causes winds to curve to the right in the Northern Hemisphere and to the left in the Southern Hemisphere. This results in a counterclockwise rotation for Northern Hemisphere hurricanes and a clockwise rotation for Southern Hemisphere hurricanes.

Question: What are some characteristics of hurricanes?

- Observe:** In which hemisphere is the hurricane shown on the Gizmo? How do you know?

It is shown in the Northern Hemisphere and I know this because when the hurricane moves to the right it is the Northern Hemisphere and when it moves to the left it is the Southern Hemisphere.

Answer Key To Surviving Hurricane Sandy

Zhe Xu



Answer Key To Surviving Hurricane Sandy:

Disaster Preparation and Survival: How We Survived Hurricane Katrina and Other Calamities John I. Blackwood, 2005-12
Many people find themselves unprepared when a disaster strikes This guide will force you to think about what you need to do in order to survive such an occurrence and not lose the things that matter most such as your life and the lives of your family prized personal possessions home and garage and pets We discuss how to prepare your home in order to avoid as much damage as possible how to shop wisely and when to do so generator use and more We also detail how to survive in the aftermath of a disaster when stores gas stations and public utilities are not functioning At the end of the book are a number of checklists to guide you in your preparation We survived an earthquake a flooded out home tropical storms and hurricanes This story is laced with personal stories personally taken pictures humor and enough serious subject matter that you will feel motivated to get to work now Our planning saved us and our possessions We know that our experiences and insight can help you too

Survival Lt. Gen. Russel Honoré (U.S. Army, ret), Russel L. Honore, 2009-05-05 Encourages Americans to adopt a culture of disaster preparedness drawing on examples from Hurricane Katrina to outline practical suggestions on how to prepare for and respond to catastrophic events

Rebuilding After Hurricane Sandy United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security, 2015 *To review the response by charities to Hurricane Katrina* United States. Congress. House. Committee on Ways and Means. Subcommittee on Oversight, 2006

Night Survival Guide Sebastian Farnham, AI, 2025-02-19 Night Survival Guide offers a comprehensive approach to mastering survival in low light conditions blending military history and adventure with practical techniques The book uniquely combines sensory adaptation tactical movement and emergency strategies arguing that night survival skills are crucial for anyone facing unexpected darkness not just military personnel Did you know that in the absence of light your other senses can be trained to compensate enhancing hearing and touch for better orientation The guide progresses systematically starting with the psychological effects of darkness and moving into core methodologies Drawing from military doctrine and wilderness expertise it presents methods for stealth obstacle negotiation and maintaining situational awareness For instance the book details how to construct improvised shelters and start fires without light combining proven wilderness survival techniques with insights from military survival manuals What sets this book apart is its synthesis of military precision with practical wilderness wisdom presenting information in a clear direct style Whether you re an outdoor enthusiast survivalist or simply interested in preparedness this guide equips you with valuable tools and insights to confidently navigate and survive in complete darkness covering topics from disaster preparedness to darkness navigation

The Right to Survive Tanja Schuemer-Cross, Ben Heaven Taylor, 2009 Statement of responsibility from p 2 of cover *Federal housing response to Hurricane Katrina* United States. Congress. House. Committee on Financial Services, 2007

Nomination of Joseph L. Nimmich United States. Congress. Senate. Committee on Homeland Security and

Governmental Affairs,2015 Federal housing response to Hurricane Katrina : hearing , *Lessons Learned* United States.
Congress. House. Committee on Homeland Security. Subcommittee on Emergency Communications, Preparedness and
Response,2009

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