



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

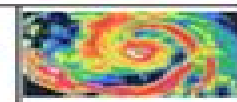
Clear	1/8	1/4	3/8	1/2	5/8	3/4	7/8	Overcast

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

**United States. Congress. House.
Committee on Homeland Security.
Subcommittee on Emergency
Preparedness, Response and
Communications**

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

To review the response by charities to Hurricane Katrina United States. Congress. House. Committee on Ways and Means. Subcommittee on Oversight,2006

The Right to Survive Tanja Schuemer-Cross,Ben Heaven Taylor,2009 Statement of responsibility from p 2 of cover

Nomination of Joseph L. Nimmich United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs,2015

Behavioral Health Response to Disasters Julie Framingham,Martell L. Teasley,2012-04-23 Disasters can cause long term disruptions to the routines of individuals and communities placing survivors at risk of developing serious mental health and substance abuse problems Disaster behavioral health services provide emotional support help normalize stress reactions assess recovery options and encourage healthy coping behaviors They also connect survivors to community resources that can assist the recovery process Today s increasing frequency and intensity of disasters merit greater focus on the development of modalities for intervention and mitigation against the psychological impacts of disaster In Behavioral Health Response to Disasters professionals with years of practice research and national advisory board service review and discuss key topics in the field Highlighting the themes of cultural competence and evidence based practice this volume Presents an interdisciplinary approach to examining specific disaster behavioral health topics Considers how an individual s culture may impact willingness to seek out and accept services Incorporates research on vulnerable or at risk populations who are likely to suffer disproportionately more adverse psychological consequences of disaster Discusses clinical studies of cognitive behavioral treatments for disaster related distress and post traumatic stress disorder In the past two decades disaster behavioral health research policy and practice have grown exponentially This volume covers the wide variety of issues in this emerging field highlighting concerns that we must address in order to create more disaster resilient

communities *The Federal Emergency Management Agency's Fiscal Year 2015 Budget Request* United States. Congress. House. Committee on Homeland Security. Subcommittee on Emergency Preparedness, Response and Communications, 2014

Emergency Mgmt 2.0 United States. Congress. House. Committee on Homeland Security. Subcommittee on Emergency Preparedness, Response and Communications, 2014 *Crisis Management and National Emergency Response* .

Wadsworth, Sabina L. Burton, 2007 This book offers a comprehensive introduction to the current and key issues that impact crisis management It includes content on responding to riots managing evacuations protecting victims of major disasters and stress management for first responders **Harvard Journal of African American Public Policy** , 2006 **TR News** , 2007 *Adventist Review* , 2007 *Disaster Response* Fred C. Pampel, 2008 Each volume of the Facts On File Library in a

Book series is carefully designed to be a first stop research source on important current issues Written clearly and carefully so that even the most complex aspects of the topic are easily understandable the books give the reader the essential information to begin work plus the research tools needed to delve more deeply into the issues Each book includes a history of the subject biographical information on important figures in the field a complete annotated bibliography and a carefully designed index everything the researcher needs to get down to work **The Times Index** , 2006 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Business Week** , 2006 **The New York Times Index** , 2008 **Black Newspapers Index** , 2007 **U.S. News & World Report** , 2007 **World Disasters Report 2006** Jonathan Walter, 2006

Which people are missing out on humanitarian aid because no journalists report on them no donors are interested in them no agencies have assessed their needs or because their governments ignore them This year's report ventures into the shadows lying behind the more publicized disasters of 2005 2006 It combines first hand reporting from the field with critical analysis of aid flows and donor preferences to highlight places and issues starved of attention The report calls on aid organizations journalists governments and academics to work together to address the symptoms and causes of neglected humanitarian crises **New Scientist** , 2007

Answer Key To Surviving Hurricane Sandy Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Answer Key To Surviving Hurricane Sandy**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

<https://netdata.businessstraveller.com/results/browse/default.aspx/15%20gmc%20savana%202500%20repair%20manual.pdf>

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