



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

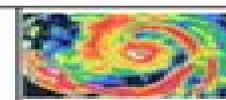
Clear	1/8	1/4	3/8	1/2	5/8	3/4	7/8	Overcast

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.

Explore Learning Hurricane Motion Gizmo Answers

Xiang Xie



Explore Learning Hurricane Motion Gizmo Answers:

Reviewing **Explore Learning Hurricane Motion Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Explore Learning Hurricane Motion Gizmo Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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