



## 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

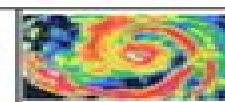
Clear	1/8	1/4	3/8	1/2	5/8	3/4	7/8	Overcast

### 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

**S Baum**



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