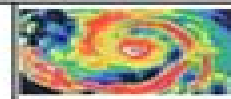


Activity A:**Hurricane characteristics****Get the Gizmo ready:**

- 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?

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

It is coming from the North hemisphere because of the way it is rotating (counterclockwise)

2. **Describe patterns:** Under **Show hurricane**, make sure **Radar** is selected. Radar is used to determine where **precipitation**, such as rain, is falling. Blue indicates light rainfall. Heavier rain is shown with yellow and then orange. Red indicates the heaviest rainfall.

- A. Where within the hurricane is the lightest rainfall?
- B. Where within the hurricane is the heaviest rainfall?
- C. Describe any patterns you see in the distribution of a hurricane's rain

Along the outside

The middle

Rainfall increases in intensity as you go closer to the center of the hurricane.

3. **Observe:** Under **Show hurricane**, select **Satellite**. Satellite images are taken from cameras built into satellites orbiting Earth. These images are used to study cloud coverage over large areas, including the clouds associated with a hurricane.

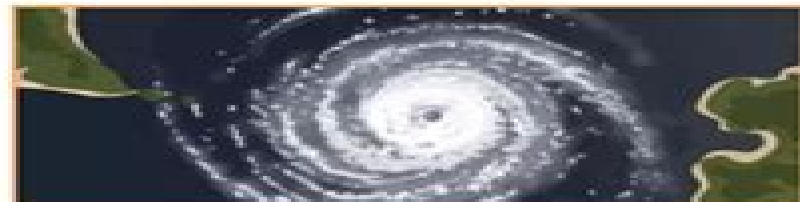
- A. Which is larger, the area of rainfall or the area of cloud cover?
- B. Where is the cloud cover most dense?
- C. Where is the cloud cover least dense?

Area of rainfall

Nearer the center

Outside the hurricane

4. **Identify:** The center of rotation of a hurricane is called the **eye**. The eye of a hurricane is a core of warm, relatively calm air with low pressure and light winds. Label the eye on the hurricane at right.



Hurricane Motion Gizmo Answer Key

Camilla Rothe

A red circular graphic with a gradient, appearing as a partial circle or a stylized eye, located to the right of the author's name.

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