

Name:

Nonfiction: Text Features – Q4:2

Date:

As you answer this week's questions, highlight your evidence in the text.

Hurricanes

A hurricane is a giant spinning rain storm. They form over very warm ocean water near the Equator. Water temperature is 80° or above. (How warm is that? The typical temperature of a heated swimming pool is 78°- 82°.)

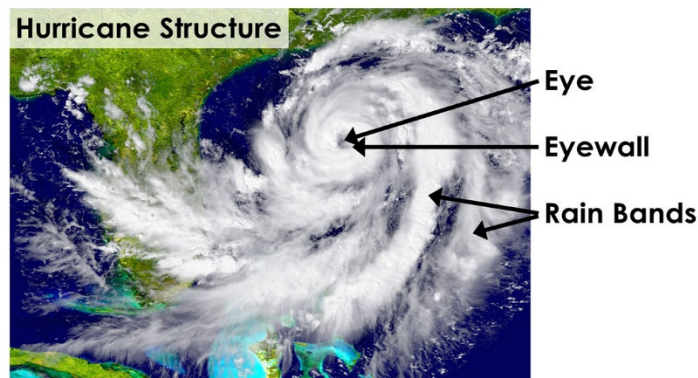
A tropical storm forms when strong winds swirl inward and up, creating a giant funnel of water. Not all tropical storms become hurricanes. That depends on the wind speed. Tropical storms can have wind speeds up to 73 mph. Once wind speeds hit 74 mph, the storm is classified as a hurricane.

Hurricanes are classified into five categories.

Category	Wind Speed	Storm Surge (how much the water rises above sea level)	Damage
1	74 to 95 mph	4-5 feet	Some Damage
2	96 to 110 mph	6-8 feet	Moderate Damage
3	111 to 130 mph	9-12 feet	Extensive Damage
4	131 to 155 mph	13-18 feet	Devastating Damage
5	> 155 mph	18 feet+	Catastrophic Damage

Most hurricanes, however, occur only at sea. They never get close enough to land to cause damage.

From above, a hurricane looks like a ring of clouds circling a center of calmer weather. This center is called the "eye". If you were in the eye of a hurricane, you might even see a blue sky. The eye of the storm is the warmest section. Just outside the eye, you will find the eyewall. The eyewall is made up of thunderclouds and connects to the outermost part of a hurricane, the rain bands.



In North America, we call tropical cyclones hurricanes. However, the exact same weather condition is known as a typhoon when it occurs in the Pacific Ocean off the coast of Asia. In other areas, tropical cyclones are just called tropical cyclones. Some regions of the world don't get any hurricanes due to colder water temperatures.

Although hurricanes can be dangerous, technology now allows us to predict where and when they may hit. Also, communities can now be told to evacuate or leave an area days before any rain even falls. While hurricanes can still be devastating to structures, people's lives can be saved.

Nonfiction: Text Features – Q4:2

Monday	Tuesday
<p>Before you read, look at the text features. What do you think you will read about?</p> <hr/>	<p>Why do authors use charts in a text?</p> <hr/>
<p>What is a Hurricane?</p> <hr/>	<p>Why do authors use diagrams in a text?</p> <hr/>
<p>According to the text, when does a tropical storm become a hurricane?</p> <hr/>	<p>According to the chart, if a hurricane has wind speeds of 103 miles per hour, which category will it be classified under?</p> <hr/>
<p>What information is included in the chart?</p> <hr/>	<p>Which category hurricane causes devastating damage?</p> <hr/>
Wednesday	Thursday
<p>According to the diagram, what are the three main parts of a hurricane?</p> <hr/>	<p>Write a short summary about this text.</p> <hr/>
<p>What is the main idea of the last paragraph?</p> <hr/>	<hr/>
<p>If you were in the eye of a hurricane, what might you see?</p> <hr/>	<hr/>
<p>What are tropical cyclones called near Asia?</p> <hr/>	<hr/>

More of My Thinking

Monday	Tuesday
Wednesday	Thursday

My Progress

MONDAY	TUESDAY	WEDNESDAY	THURSDAY
____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...	____ out of 4 correct I need more help with...

Answer Key - Nonfiction: Text Features – Q4:2

Monday	Tuesday
<p>Before you read, look at the text features. What do you think you will read about?</p> <p>Accept all reasonable answers.</p>	<p>Why do authors use charts in a text?</p> <p>To organize and display data</p>
<p>What is a Hurricane?</p> <p>A hurricane is a giant spinning rain storm.</p>	<p>Why do authors use diagrams in a text?</p> <p>To show the parts of something in a visual way</p>
<p>According to the text, when does a tropical storm become a hurricane?</p> <p>Once wind speeds hit 74 mph or more</p>	<p>According to the chart, if a hurricane has wind speeds of 103 miles per hour, which category will it be classified under?</p> <p>Category 2</p>
<p>What information is included in the chart?</p> <p>The 5 categories of a hurricane and their conditions</p>	<p>Which category hurricane causes devastating damage?</p> <p>Category 4</p>
Wednesday	Thursday
<p>According to the diagram, what are the three main parts of a hurricane?</p> <p>Eye, eyewall, rain bands</p>	<p>Write a short summary about this text.</p> <p>Accept all reasonable answers.</p>
<p>What is the main idea of the last paragraph?</p> <p>We can predict hurricanes and save lives.</p>	
<p>If you were in the eye of a hurricane, what might you see?</p> <p>clear blue skies</p>	
<p>What are tropical cyclones called near Asia?</p> <p>typhoons</p>	