

Name: \_\_\_\_\_

# CH 12 Meteorology

## SECTION 2 Weather Systems

MAIN IDEA	DETAILS
	<p><b>Scan</b> Section 2 of your text. Read the headings and the figure captions. Write three questions that come to mind.</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<b>New Vocabulary</b>	<i>Use your text to define each term.</i>
<i>Coriolis effect</i>	_____ _____
<i>trade winds</i>	_____ _____
<i>prevailing westerlies</i>	_____ _____
<i>polar easterlies</i>	_____ _____
<i>jet stream</i>	_____ _____
<i>front</i>	_____ _____
<b>Academic Vocabulary</b>	<i>Define the following term.</i>
<i>generate</i>	_____ _____

**MAIN IDEA**

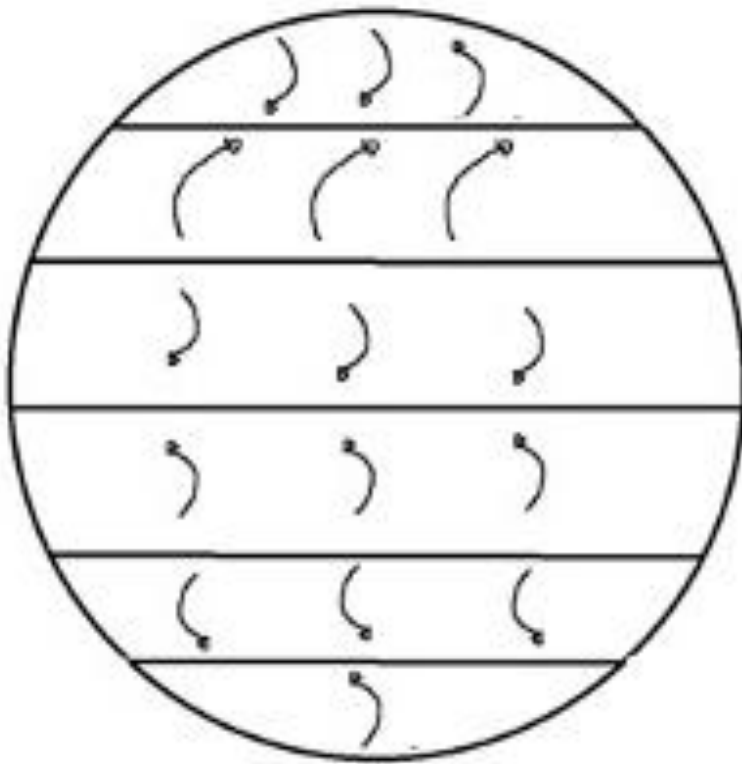
**DETAILS**

**Global Wind Systems**

Use with pages 318–320.

**Model** the movement of air around the surface of Earth. Use **Figure 6** and pages 5 and 6 of your notes to help you. Include the following features: Please use text boxes to label the diagram.

- doldrums
- equator
- horse latitudes
- 0° latitude
- northeast trade winds
- northern hemisphere
- N & S polar easterlies
- 30° N & S latitude
- N & S prevailing westerlies
- southeast trade winds
- southern hemisphere
- 60° N & S latitude
- 90° N & S latitude



**Jet Streams**

Use with page 321.

**Predict** what would happen to the weather in the northeastern United States if the polar jet stream dipped to the south. How would the weather change if the jet stream moved to the north?

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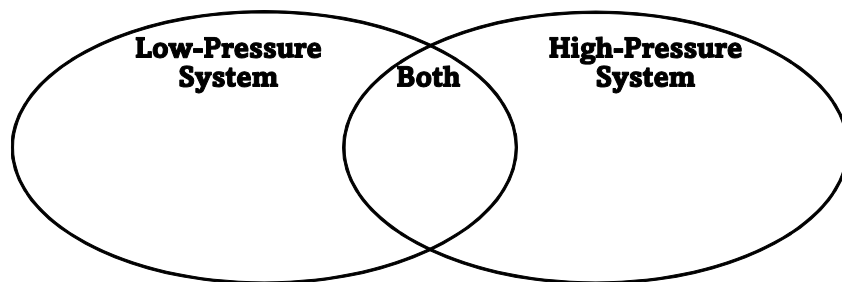
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**MAIN IDEA****DETAILS****Fronts***Use with page 322.***Compare** *the four main types of fronts.*

Type of front	Map symbol	Description of air movement	Associated Weather
Cold Front			
Warm Front			
Stationary Front			
Occluded Front			

**Pressure Systems***Use with page 323.***Differentiate** *between high-pressure systems and low-pressure systems.**Use the list of characteristics below to complete the Venn diagram.*

- air moves in circular motion
- rising air
- fair weather
- sinking air
- stormy weather
- winds move clockwise in northern hemisphere
- winds move counterclockwise in northern hemisphere

**SYNTHESIZE**

The doldrums along the equator is an area of very little wind. This gave early sailors a difficult time in their transoceanic trips. How could sailors avoid this trouble spot?

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