

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

# CH 12 Meteorology

## SECTION 3 Gathering Weather Data

MAIN IDEA	DETAILS
	<p><b>Scan</b> Section 3 of the text. Read the section title, bold words, figures and figure captions. Write four facts you discovered about gathering weather data as you scanned the section.</p> <ol style="list-style-type: none"><li>1. _____</li><li>2. _____</li><li>3. _____</li><li>4. _____</li></ol>
<b>Review Vocabulary</b>  <i>humidity</i>	<p>Use your text to define the following term.</p> <p>_____</p> <p>_____</p>
<b>New Vocabulary</b>  _____ _____ _____ _____ _____ _____	<p>Read the definitions below. Then write the term for each in the left column.</p> <p><i>measures temperature</i></p> <p><i>measures air pressure</i></p> <p><i>measures wind speed</i></p> <p><i>measures relative humidity</i></p> <p><i>balloon-borne package to measure upper level atmospheric data</i></p> <p><i>change in wave frequency due to the motion of the wave relative to the observer</i></p>
<b>Academic Vocabulary</b>  <i>compute</i>	<p>Define the following term.</p> <p>_____</p>

**MAIN IDEA**

**DETAILS**

**Surface Data**

Use with pages 324–325.

**Compare** the different types of instruments that measure surface weather data.

Instrument	What does it measure?	How does it work?
	temperature	
		Changes in pressure measured by changes in height of column of mercury
Anemometer		
		Wet- and dry-bulb thermometers

**Upper Level Data**

Use with page 326.

**Discuss** collecting weather data in the upper atmosphere.

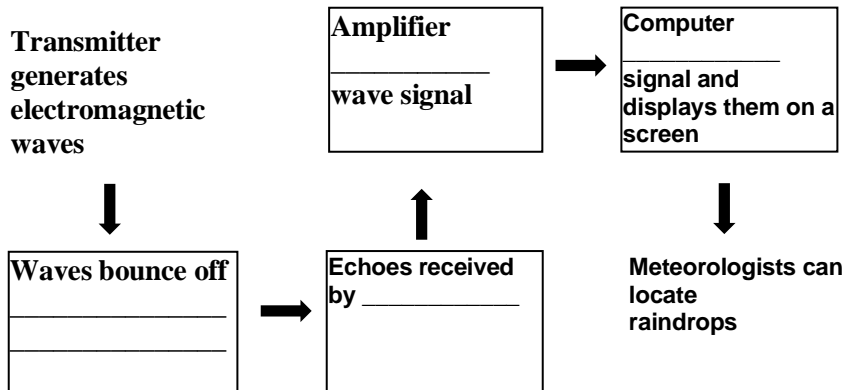
Upper-level weather data is collected by a \_\_\_\_\_, which is a series of sensors carried by a \_\_\_\_\_. Sensors that measure \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ are carried.

Measurements are sent back by \_\_\_\_\_. \_\_\_\_\_ is very important when measuring \_\_\_\_\_ data because it helps meteorologists determine wind speed and \_\_\_\_\_.

**Weather Radar**

Use with page 327.

**Sequence** the way weather radar works in this flow chart by filling in the blanks.



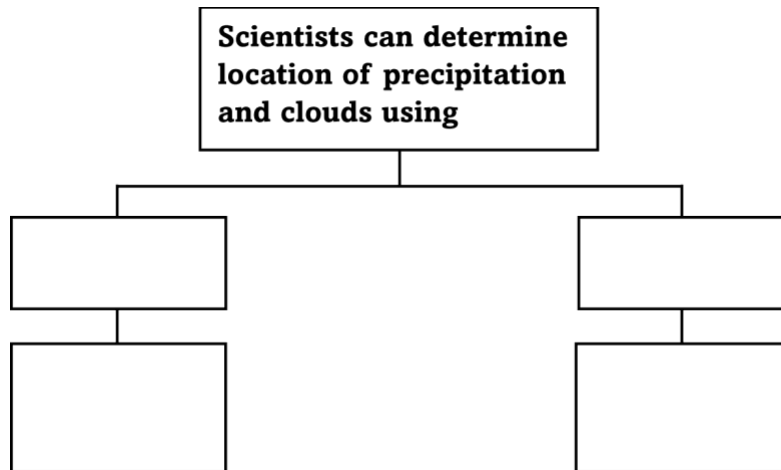
**MAIN IDEA**

**Weather Satellites**

Use with pages 327–328.

**DETAILS**

**Organize** information about weather data collection for precipitation tracking by completing the graphic organizer.



**Analyze** how infrared imagery is used by meteorologists by completing the following statements.

Data can be collected in \_\_\_\_\_.

Infrared imagery detects differences in \_\_\_\_\_.

Objects show up differently according to the \_\_\_\_\_.

The temperature of a cloud tells meteorologists about its \_\_\_\_\_ and \_\_\_\_\_.

**SYNTHESIZE**

Suppose you wanted to explain to someone how meteorologists measure the speed of raindrops. How would you explain this procedure in terms that most people would understand?

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