

## Unit 9 Section 2 Study Guide

**Directions: Answer the following questions.**

### **Reviewing Objectives Part 1:**

1. Describe the various conditions of formation associated with severe weather (thunderstorms, hurricanes, floods, waves, and drought). Pages: 385, 608-10, 635
2. Describe conditions associated with frontal boundaries that result in severe weather (thunderstorms, tornadoes, and hurricanes). Pages: 562, 605-10
3. Describe the seasonal variations in severe weather. Pages: 610

### **Reviewing Major Concepts Part 2: *Chapter 23 section 2, 3***

1. Describe the four main types of fronts.
2. Compare the characteristic weather patterns of cold fronts with those of warm fronts.
3. Identify the type of front that may form a squall line.
4. Summarize how a midlatitude cyclone forms.
5. Describe the stages in the development of thunderstorms.
6. Describe the stages in the development of hurricanes.
7. Explain why tornadoes are destructive.

### **CRITICAL THINKING**

8. **Evaluating Methods** What areas of Earth should meteorologists monitor to detect developing hurricanes? Explain your answer.
9. **Making Comparisons** Compare the destructive power of midlatitude cyclones, hurricanes, and tornadoes in terms of size, wind speed, and duration.