

Name: _____

CH 13 The Nature of Storms

SECTION 1 Thunderstorms

| MAIN IDEA | DETAILS |
|------------------------------------|--|
| | Read the main heading of Section 1. List three questions that come to mind. |
| | 1. _____ |
| | 2. _____ |
| | 3. _____ |
| Review Vocabulary | <i>Use your text to define the following term.</i> |
| <i>latent heat</i> | _____ |
| New Vocabulary | <i>Use your text to define each term.</i> |
| <i>air-mass thunderstorm</i> | _____ _____ _____ |
| <i>mountain thunderstorm</i> | _____ _____ _____ |
| <i>sea-breeze thunderstorm</i> | _____ _____ _____ |
| <i>frontal thunderstorm</i> | _____ _____ _____ |

MAIN IDEA

DETAILS

**How
Thunderstorms
Form**

Use with pages 344–345.

Summarize *three conditions that must be met for a thunderstorm to occur.*

1. _____
2. _____
3. _____

**Air-Mass
Thunderstorms**

Use with page 346.

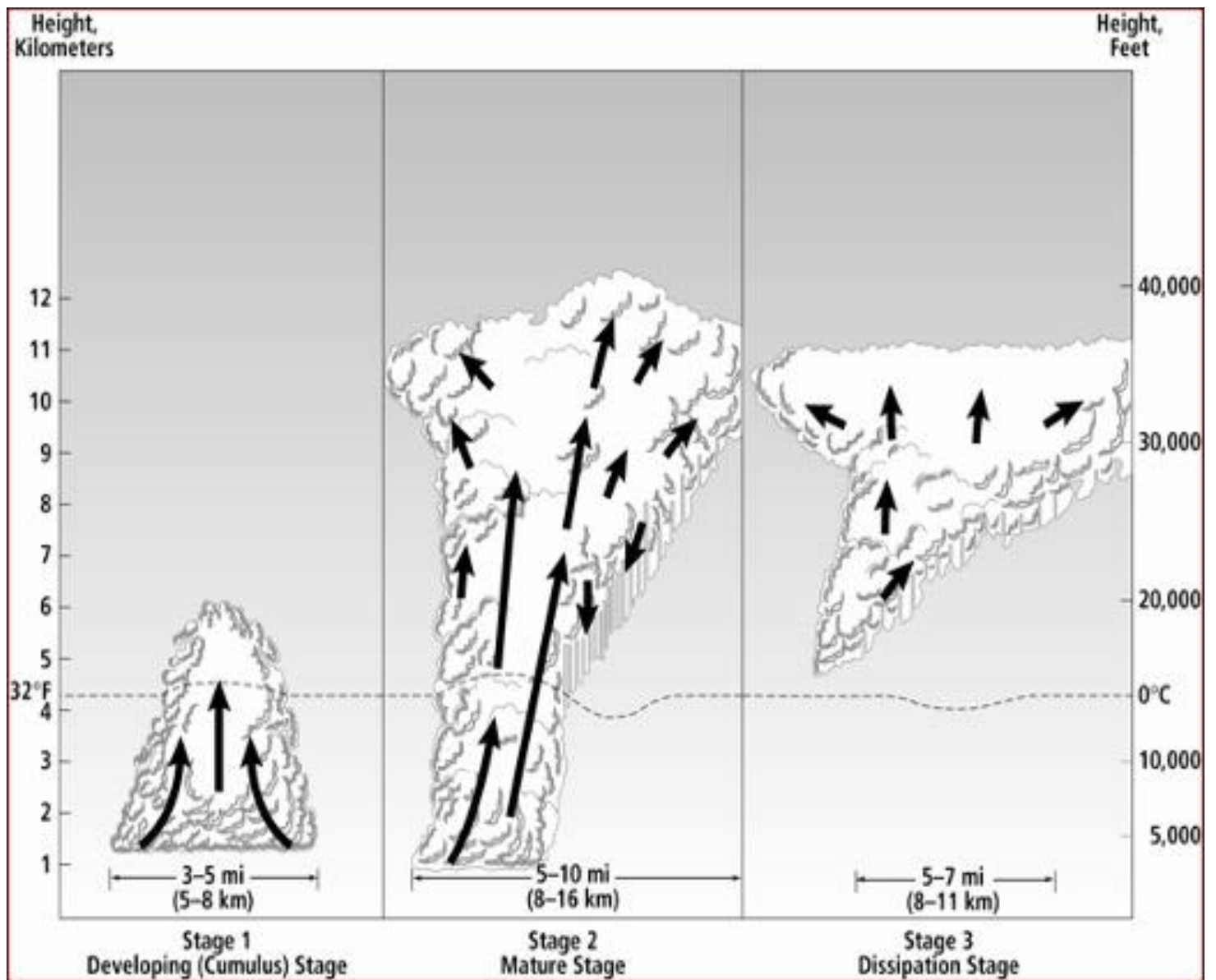
Draw *diagrams that explain the formation of a mountain thunderstorm and a sea-breeze thunderstorm. Use Figure 3 in your text to help you with the sea-breeze.*

**Frontal
Thunderstorms**

Use with page 346.

Analyze *Figure 1 in your text. Use the diagrams you drew above to explain the reason for the placement of the red and orange zones in Figure 1.*

LIFE CYCLE OF A THUNDERSTORM



LIFE CYCLE OF A THUNDERSTORM

1. What factor determines the classification of a thunderstorm stage? Page 346

2. What is the first stage in the formation of a thunderstorm?

3. What causes air to rise in stage 1 or the cumulus stage?

4. What event signals the beginning of stage 2 or the mature stage?

5. Summarize what happens during the mature stage.

6. What is the last stage in the formation of a thunderstorm?

7. What happens to the updrafts inside the cloud during the last stage?
Explain your answer.

8. During which stage does the storm cloud cover the greatest vertical distance through the atmosphere?
