

## Directed Reading A

### Section: Severe Weather

1. Weather that can cause property damage and death is called \_\_\_\_\_.

#### THUNDERSTORMS

2. Which of the following atmospheric conditions produces thunderstorms?
- a. warm, moist air near Earth's surface and an unstable atmosphere
  - b. cold, dry air near Earth's surface and an unstable atmosphere
  - c. an unstable atmosphere
  - d. warm, moist air near Earth's surface

3. Which type of cloud would most likely produce a thunderstorm?
- a. stratus cloud
  - b. cirrus cloud
  - c. cumulus cloud
  - d. cumulonimbus cloud
4. A usually brief and heavy storm with rain, strong winds, lightning, and thunder is called a(n) \_\_\_\_\_.

5. An electric discharge between two oppositely charged surfaces is \_\_\_\_\_.
6. Name three places where lightning can happen.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

7. The sound caused by air rapidly expanding along a lightning strike is called \_\_\_\_\_.

8. Name four dangerous conditions that severe thunderstorms can produce.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

#### TORNADOES

9. What is a destructive, rotating air column with very high wind speeds that touches the ground?
- a. thunderstorm
  - b. tornado
  - c. severe thunderstorm
  - d. occluded front

10. In what percent of thunderstorms do tornadoes occur?
- a. 10%
  - b. 20%
  - c. 1%
  - d. 5%

11. What is the relationship between a funnel cloud and a tornado?
- \_\_\_\_\_

12. What causes a column of air spinning like a roll of toilet paper to turn to a vertical position?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

13. What happens when the spinning column of air moves to the bottom of the cumulonimbus cloud?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

14. Why do most tornadoes in the United States occur in the spring and early summer?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

15. Why are tornadoes able to cause so much damage?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_