

Lesson 6: How Do Storms Form?

BBB: Weather Forecast

Watch the video located at any one of the following addresses:

<http://goo.gl/zemCEC>

<http://www.youtube.com/watch?v=7wPnAUxHLD8>



Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

After carefully watching the video, answer the following questions:

1. (Multiple-choice) What type of front is moving into Arlington Heights according to Mr. Bingaman?
 - a. Warm air from Canada
 - b. Warm air from the Gulf of Mexico
 - c. Cold air from Canada
 - d. Cold air from the Gulf of Mexico
2. (Fill in the blank) _____ is the transfer of thermal energy from the ground to the air.
_____ is the cycling of air from updrafts, upper winds, downdrafts, and lower winds.
3. (Circle the correct word): When air is heated the air becomes (**more / less**) dense. When air is cooled the air becomes (**more / less**) dense.
4. When an air mass is colder than the surrounding air it causes a(n) _____,
 - a. Updraft
 - b. Downdraft
 - c. Surface wind
 - d. Upper wind
5. When an air mass is warmer than the surrounding air it causes a(n): _____.
 - a. Updraft
 - b. Downdraft
 - c. Surface wind
 - d. Upper wind
6. When warm, moist air rises, it loses pressure. What happens to this air?
 - a. It becomes sunny.
 - b. It becomes windy.
 - c. It becomes cloudy.
 - d. It becomes warmer.

7. What is the transition zone or boundary between two different air masses called?
 - a. a front
 - b. a low pressure system
 - c. an isobar
 - d. a cumulonimbus cloud

8. What type of storm is associated with a cold front? (Select all that apply.)
 - a. Strong updrafts.
 - b. Lightning and thunder.
 - c. Gentle updraft.
 - d. Gentle rain.

9. When viewed from the side, fronts are slanted. Why?
 - a. Because surface winds are faster than upper winds.
 - b. Because Isobar lines are never straight.
 - c. Because warm air slides underneath cold air.
 - d. Because warm air floats on top of cold air.

10. Does Mr. Frintner need to cancel his track meet?
 - a. Yes, because a very powerful storm is coming.
 - b. No. There is no storm coming, it will not hit Arlington Heights.
 - c. Yes. The storm has blown the other team's bus into a ditch.
 - d. No, because the storm will be very short, and will end before the meet.

Use the words in the word bank to fill in each shape in the blank storm model:

