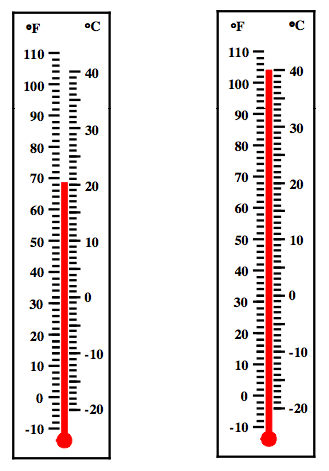
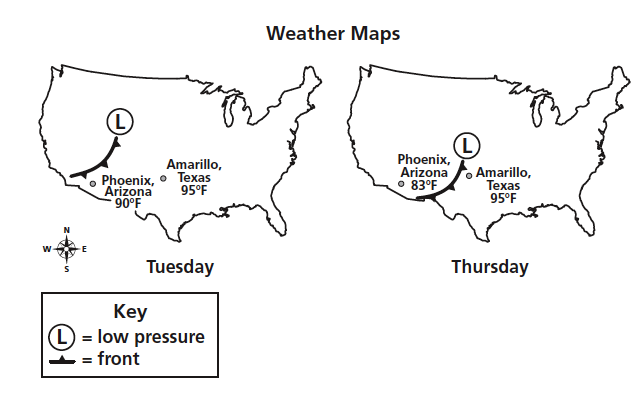
|  |  |
| --- | --- |
| Name: |  |
| Test – Weather  Version: **A** |  |

1. Using the pictures of the gas samples below, which of the following is most likely to be true? **(4c)**

|  |  |
| --- | --- |
| **A** | **B** |
|  |  |

* 1. Gas A has a higher temperature than Gas B
  2. Gas A has a lower density than Gas B
  3. Gas A has a higher atmospheric pressure than Gas B
  4. Gas A will float and Gas B will sink

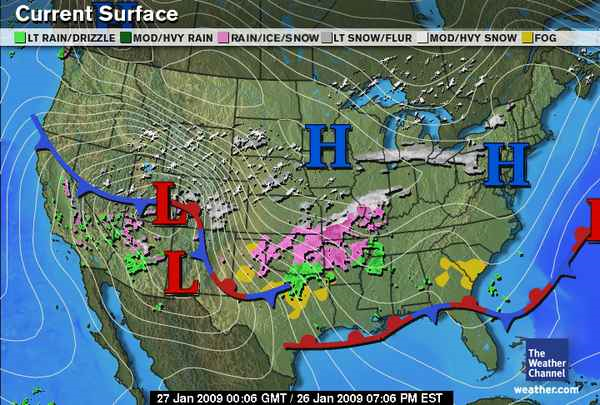
1. Write the temperature of the thermometer to the right in degrees Fahrenheit. **(4c)**
2. Which of the following choices describes an air mass over Mississippi in Summer? **(4c)**
   1. Cool and dry
   2. Cool and wet
   3. Warm and dry
   4. Warm and wet
3. An air mass is described as maritime tropical, what is probably true about this air mass? **(4c)**
   1. It is found over land and has a high temperature.
   2. It is found over land and has a low temperature.
   3. It is found over water and has a high temperature.
   4. It is found over water and has a low temperature.
4. What is convection? **(4c)**
   1. Movement of air and water because of differences in temperature
   2. The curving of wind because of Earth’s rotation
   3. A fast moving wind that goes from west to east
   4. A large body of air with similar temperature and moisture
5. What causes wind? **(4c)**
   1. Evaporation of water
   2. Air masses
   3. Fronts
   4. Differences in temperature
6. A cold air mass is moving down through Jackson bringing heavy rain and thunderstorms. What is this called? **(4c)**
   1. A warm front
   2. A cold front
   3. A stationary front
   4. A occluded front
7. What is it called when a warm air mass moves in bringing light rain and warm temperatures? **(4c)**
   1. A warm front
   2. A cold front
   3. A stationary front
   4. A occluded front
8. Which of the following are the effects of a stationary front? **(4h)**
   1. Cooler weather and rain or snow
   2. Drizzly rain then warm weather
   3. Clear skies then rain
   4. Light rain and wind
9. When a warm air mass takes over a cold air mass and causes light rain and wind this type of front occurs: **(4h)**
   1. Warm front
   2. Stationary front
   3. Cold front
   4. Occluded front
10. The weatherman predicts that tomorrow a cold front will move in over Jackson, MS. What should the weatherman predict the weather would be? **(4h)**
    1. Cooler weather and lots of rain or snow
    2. Drizzly rain then warm and clear conditions
    3. Clear skies then heavy rain and warm weather
    4. Cooler weather and thunderstorms, heavy rain, or snow
11. The following maps show a front as it moves east across the United States.



Which of these describe the weather change that can be expected in Amarillo, Texas? **(4h)**

* 1. The cold front will bring cooler temperatures and snow.
  2. The cold front will bring cooler temperatures with thunderstorms and rain.
  3. The warm front will bring warmer temperatures with hot air for several days.
  4. The warm front will bring warmer temperatures with light rain for a few days.

***Use the map below to answer questions 13-15.***



1. What kind of pressure is located over the Northeastern United States? **(4h)**
   1. Low pressure
   2. High pressure
   3. Heavy pressure
   4. Light front
2. What kind of weather should the Northeastern United States expect? **(4h)**
   1. Nice weather
   2. Thunderstorms
   3. Heavy rain
   4. Hail
3. What kind of front is moving toward Louisiana and Mississippi? **(4h)**
   1. Cold front
   2. Warm front
   3. Stationary front
   4. Occluded front
4. What is the name of the process where the clouds become saturated with water causing it to fall from the sky? **(4c)**
   1. Condensation
   2. Precipitation
   3. Evaporation
   4. Collection
5. What kind of cloud predicts nice weather?
   1. Nimbus
   2. Cumulonimbus
   3. Cumulus
   4. Stratus
6. If the forecast for tomorrow was thunderstorms and heavy rain and possible snow, what do you think the clouds you see that day would be?
   1. Nimbostratus
   2. Cirrus
   3. Stratus
   4. Cumulonimbus

Cirrus clouds

1. Which two types of clouds are ***Both*** good predictors of precipitation?
   1. Cirrus and Cumulus
   2. Stratus and Cumulus
   3. Nimbostratus and Cumulonimbus
   4. Cumulus and Nimbus
2. Where are Cirrus clouds (like the ones to the right) found in the atmosphere?
   1. High
   2. Low to the ground
   3. In the middle
3. What kind of weather do you think the clouds on the right would predict?
   1. Nice sunny weather
   2. Stormy weather
   3. Snow
   4. Rain