Unit 6 Review Sheet: Meteorology

Directions: Complete the Review Activity below on your own paper. See class website and links below for additional review materials.

Objective 1: Air Mass

Define **front**: _____

Air masses are classified based on what two factors? _____ AND _____

Define the 2 Sources of Moisture: DRY = _____ HUMID = _____

Define the 2 Sources of Temperature: COLD = _____ WARM = _____

Identify the following abbreviations for the 4 types of air masses & indicate their meaning:

cP = _____

cT = _____

mP = _____

mT = _____

Objective 2: Fronts

WARM FRONT: warm air (**raises/sinks)** because it is (**less/more)** dense than cold air. **SYMBOL**:

WEATHER: _____

COLD FRONT: cold air (**raises/sinks)** because it is (**less/more)** dense than warm air. **SYMBOL**:

WEATHER: _____

OCCLUDED FRONT: _____

WEATHER: _____ **SYMBOL:**

STATIONARY FRONT: _____

WEATHER: _____ **SYMBOL:**

Objective 3: Clouds

Describe the formation of clouds. _____

Explain the factors the influence the formation of clouds. _____

Compare and contrast the 3 types of clouds.

Objective 4: Cyclonic Storms and Wind (See BBC Links for Review: Hurricanes / Tornadoes)

Define **HURRICANE**: _____

Pressure system: _____

Formation: _____

What produces the most damage? _____

Define **TORNADO**: _____

Pressure system: _____

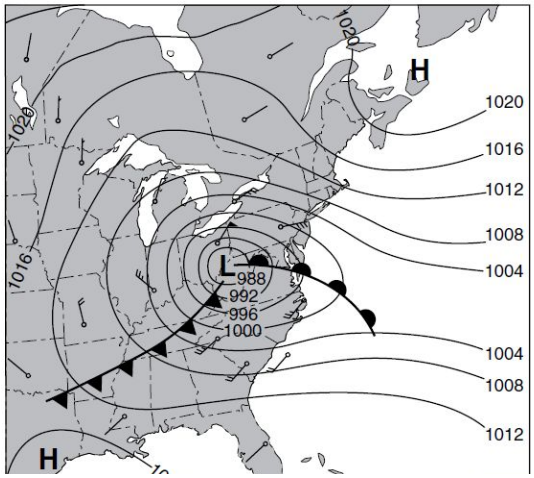
Formation: _____

What produces the most damage? _____

Describe the causes of wind. _____

Objective 5: Weather Maps

Humidity refers to the amount of _____ in the air.
_____ is a measure of humidity.



The weather map to the right shows the locations of a warm and a cold front over part of North America.
Isobars are the numbered lines on the weather map connect locations with the same:_____

The closer the lines, the **(stronger/weaker)** the wind.

*Hint: these lines are similar to contour lines on a topographic map.

Explain the direction of the warm front. _____

Describe the weather occurring at the high pressure system.
_____

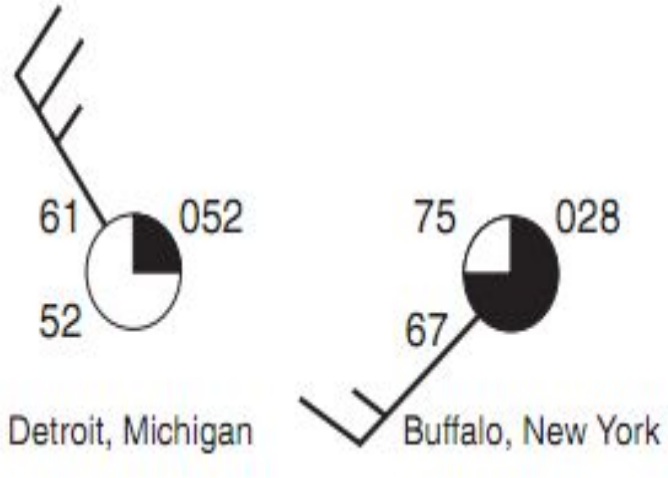
According the map, predict the weather for NC. (Hint: Think about weather association and direction of fronts)

_____

Detroit, Michigan

1. Cloud cover: _____
2. Wind direction: _____
3. Wind speed: _____
4. Temperature: _____
5. Dew Point: _____
6. Atmospheric Pressure: _____

Buffalo, New York
1. Cloud cover: _____
2. Wind direction: _____
3. Wind speed: _____
4. Temperature: _____
5. Dew Point: _____
6. Atmospheric Pressure: _____



Objective 6: El Nino and La Nina

Review this brief video and record your answers to the following questions:

What causes El Niño? What type of climate changes are seen in the US during El Niño?

What causes La Niña? What type of climate changes are seen in the US during La Niña?