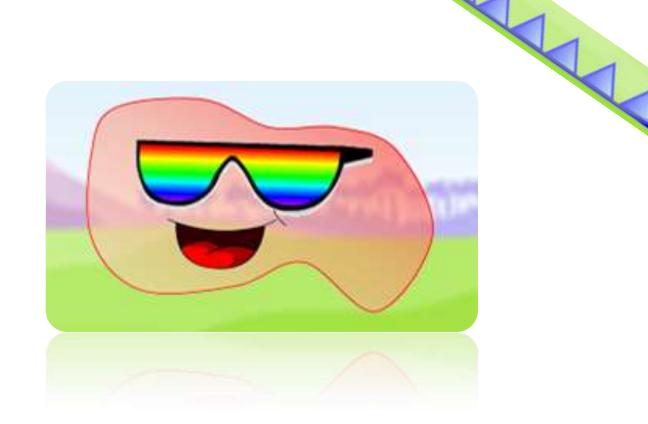


Masses,

Fronts & Pressure



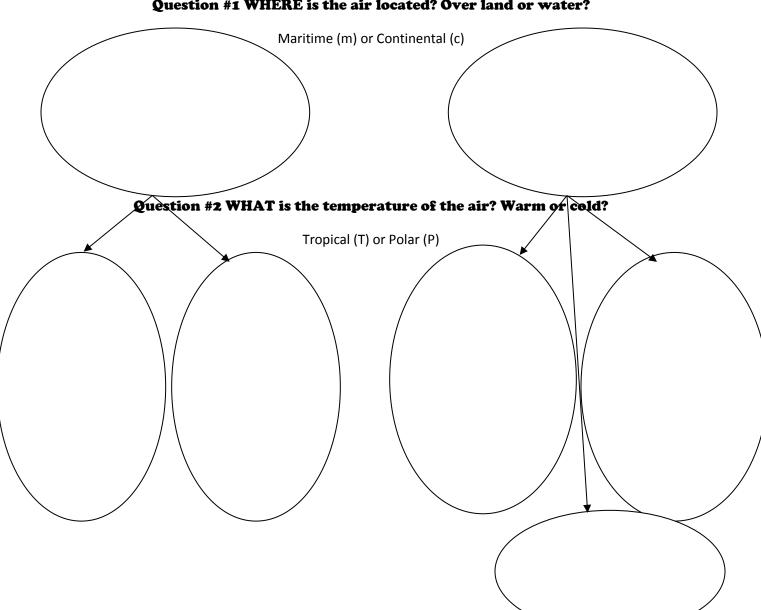
Monday Warm-Up Air Masses

What do the following words mean to you?		
Maritime		
Continental		
Polar		
Tropical		

Monday Activity:

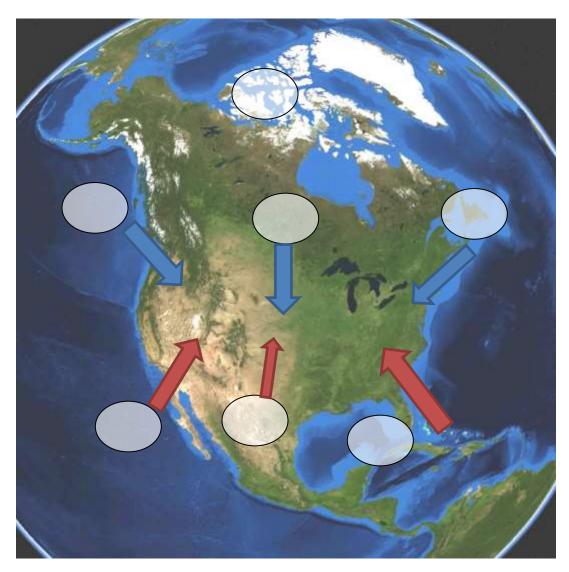
In order to determine what type of air mass it is you need to ask questions! Fill out the chart below with the types of air masses and write a quality of that air.

Question #1 WHERE is the air located? Over land or water?



AIR MASS SYMBOLS

Label the Globe below with the correct air masses



Map Source: NASA

What type of air mass do you believe happens near deserts?



What type of air mass do you believe happens near South Carolina?

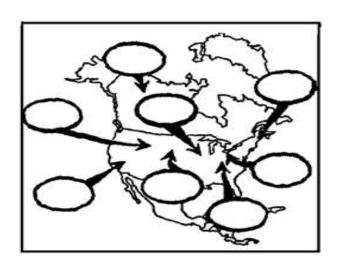


What type of air mass do you believe happens near New York City?



Tuesday Warm Up- AIR MASSES

Label the Air Masses and think of a	
clever trick to remember them.	
Trick:	_



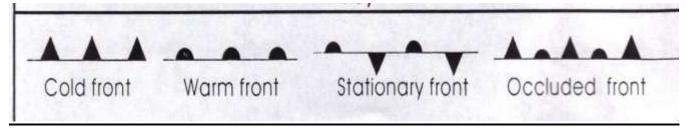
<u>Front</u>	Wrestling Move	<u>Picture</u>
COLD	The wrestling move for this front is Weather associated:	
<u>WARM</u>	The wrestling move for this front is Weather associated:	
STATIONARY	The wrestling move for this front is Weather associated:	
OCCLUDED	The wrestling move for this front is Weather associated:	

FRONTS

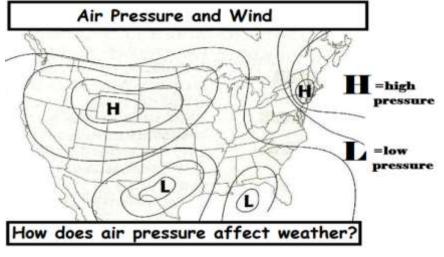
Draw Symbol	Definition	Picture: Use a "W" and a "C" to label the warm and cold fronts
Air Masses	Huge bodies of air with the same moisture and temperature throughout.	
Cold Front	Forms when a cold air mass pushes under a warm air mass. Weather: Thunderstorms and tornadoes	
Warm Front	Forms when a warm air mass slides up and over a cold air mass Weather: Gentle rain or light snow	
Stationary Front	Forms when warm and cold air with the same speed meet and neither has the force to move the other out of the way Weather: Several days of rain	
Occluded Front	Forms when a warm air mass gets caught between two cold air masses Weather: Long periods of precipitation	

Wednesday Warm-Up

- 1. _____ area in which two types of air masses meet.
- 2. _____ area where warm moist air slides up and over a cold mass.
- 3. area where cold air mass pushes under a warm air mass
- 4. _____ area where warm air is caught between two colder air masses.
- 5. _____ warm air meets cool air and the masses do not have enough force to overtake each other.



HIGH AND LOW PRESSURE SYSTEMS



High/Low Pressure

Systems Warm air rising or cold air sinking combined with the spinning of Earth causes the air to spin forming high and low pressure regions.

____pressure systems usually signal more fair weather with winds

circulating around the system in a clockwise direction.

• ____pressure systems with counterclockwise circulating winds often result in rainy and/or stormy weather conditions.

A <u>barometer</u> is an instrument used	d to measure
measured in	of Mercury (in Hg) or ir
(mb Hg).	

Barometer Reading	What does it look like outside?	What weather does it bring?
Rising barometer- in air	is sinking.	
pressure.	Warm Cold Air & Air Rises Sinks Convection	
(Pressure)		
Falling barometer-		
in air	air	
pressure	is rising.	
L	Warm Cold Air & Air Rises Sinks	
(Pressure)	Convection	

BAROMETER INFO AND PRACTICE

Ways to remember how a barometer works: Think of Dr. Phil, the psychologist on T.V. He works with people who are <u>LOW</u> and depressed. That is how he makes his money. He helps people through the *storms* and *cloudy weather* in their lives. When they are <u>HIGH</u> on life and *happy*, he doesn't have to help them or make any money from them.



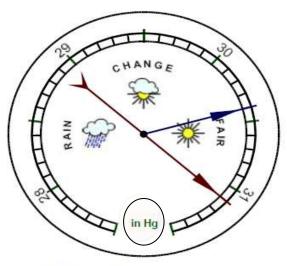




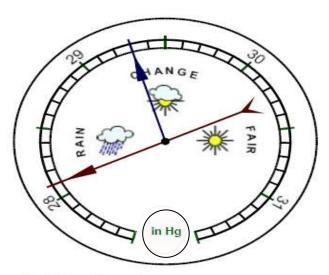
Barometer Reading	High or Low Pressure? (write Hor L)	Stormy Chance of Rain Sunny? (draw pictures to show the weather chance)
950		
1050		
1030		
970		
999		
1014		

PRESSURE PRACTICE

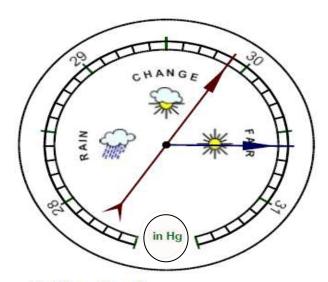
Fill out the setting hand, measuring hand, and tell whether the pressure is "high" or "low" in the blank spaces below.



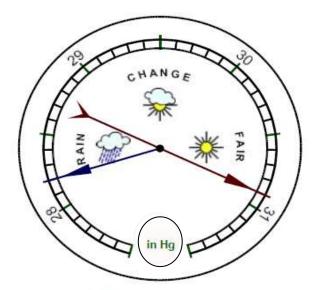
Setting Hand Measuring Hand Pressure is



Setting Hand Measuring Hand Pressure is



Setting Hand Measuring Hand Pressure is



Setting Hand Measuring Hand Pressure is