

Key

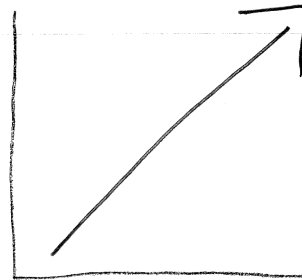
State the relationship between air pressure and temperature



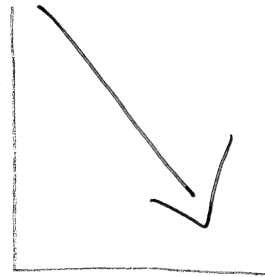
State the relationship between air pressure and Relative Humidity



State the relationship between air pressure gradient and wind speed



State the relationship between altitude and air temperature



State the relationship as the air temperature and dew point temperature move closer together, what happens to relative humidity

As Air temp. & dew point temp
get closer Rel. Humidity \uparrow

Air Temp = Dew Pt Temp =
100% R.H.



KEY

Air Pressure Systems

Procedure: Plot the following cities with their correct air pressure readings on the map of the United States. **PLEASE USE PENCIL ONLY**

The following cities all have a barometric reading of **1002.0 MB**. Find the cities and connect them with a solid line.

Raleigh NC
Harrisburg PA
Columbus OH

Nashville TN
Atlanta GA
Indianapolis ID

The following cities all have a barometric reading of **998.0 MB**. Find the cities and connect them with a solid line

Charleston WVA
Knoxville TN

Cincinnati OH
Roanoke WVA

The following cities all have a barometric reading of **1010.4 MB**. Find the cities and connect them with a solid line.

Columbia SC
NYC
Detroit MI
Des Moines IA
Memphis TN
Savannah GA

Wilmington NC
Buffalo NY
Milwaukee WI
Kansas City MO
Mobile AL

The following cities all have a barometric reading of **1.016.8 MB**. Find the cities and connect them with a solid line

Billings MT
Sioux Falls IA
Tulsa OK
Casper WY
Topeka KS

Bismarck ND
Santa Fe NM
Amarillo TX
Omaha NE
Cheyene WY

The following cities all have a barometric reading of **1.024.8 MB**. Find the cities and connect them with a solid line

Rapid City SD

Pierre SD

Scotts Bluff NE

~~Please color code each line with a different color, and make a key.~~

How do these isobars compare to a topographic map?

Both connect points of equal value.

Locate the Low pressure system by drawing a big L in the center. What type of weather (temperature and moisture) is associated with this low pressure system?

Rising Air. Converging Wind. Counterclockwise Intocenter

Locate the High pressure system by drawing a big H in the center. What type of weather (temperature and moisture) is associated with this high pressure system?

Sinking Air. Divergent Wind. Clockwise. Away from center

