

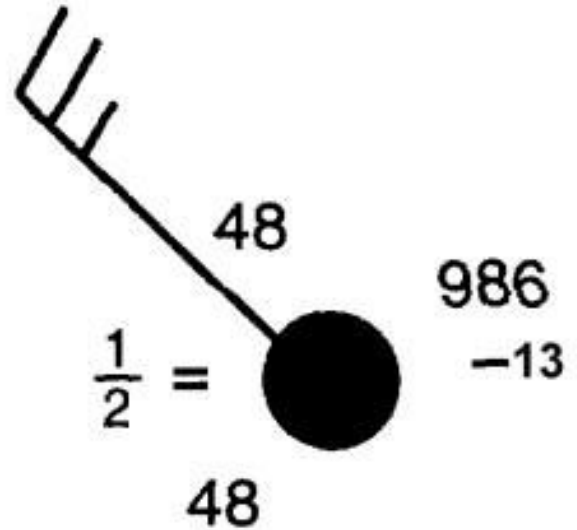


# Reading Weather Maps

# Do Now

Determine the...

1. Temperature
2. Type of Precipitation
3. Air Pressure
1. Air pressure 3 hrs ago (trend)
2. Wind Direction AND speed



# HIGH & LOW Pressure Systems

**High pressure:** air cools, condenses, and sinks (due to greater density)

**Result:** air pushes outward and clockwise, seeking lower pressure

**Weather:** typically fair with light winds.

**Alta presión:** el aire se enfría, se condensa y se hunde (debido a una mayor densidad)

**Resultado:** el aire empuja hacia afuera y hacia la derecha, buscando una presión más baja

**Clima:** típicamente limpio con vientos suaves.

# HIGH & LOW Pressure Systems

**Low pressure:** air warms, molecules scatter, and rises (due to less density)

**Result:** air pushes inward and counterclockwise

**Weather:** typically cloudy with strong winds.

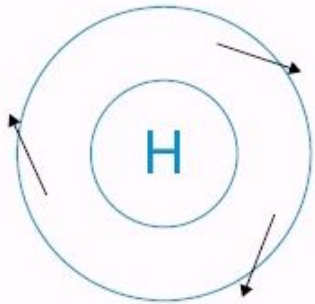
**Baja presión:** el aire se calienta, las moléculas se dispersan y se elevan (debido a la menor densidad)

**Resultado:** el aire empuja hacia adentro y hacia la izquierda

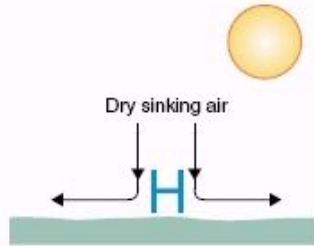
**Clima:** típicamente nublado con vientos fuertes.

# HIGH & LOW Pressure Systems

Surface winds blow clockwise around a high pressure and diverge.

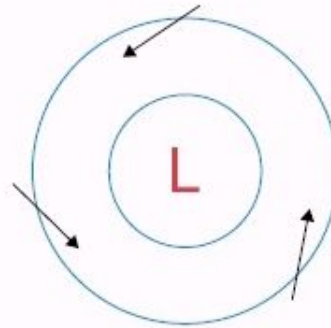


View from above

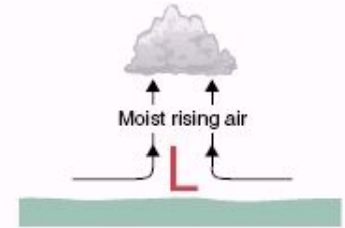


View from side

Surface winds blow counterclockwise around a low pressure and converge.

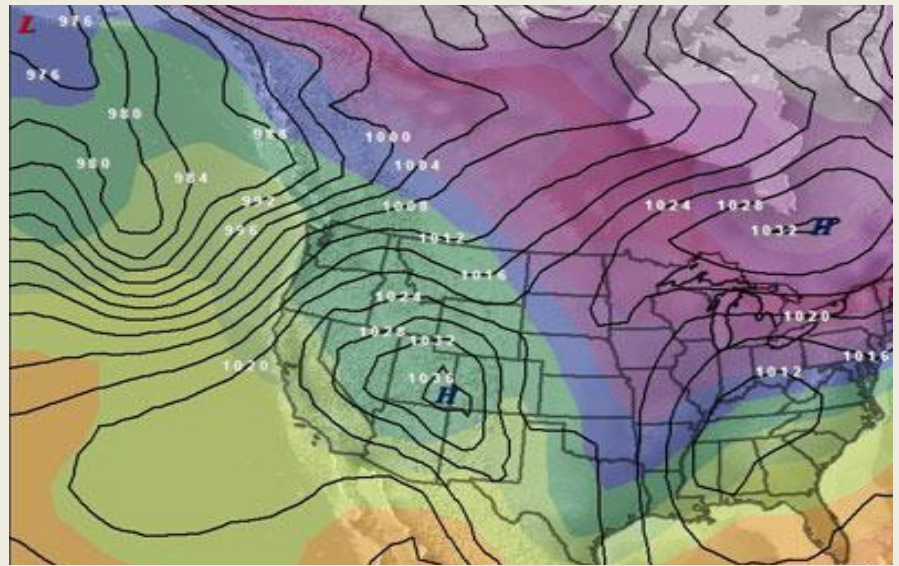


View from above



View from side

# Isobars



- connect areas with equal air pressure
- the closer the isobar lines, the greater the change in air pressure, and the greater/faster the wind speeds.

- conectar áreas con la misma presión de aire
- cuanto más cerca estén las líneas isobaras, mayor será el cambio en la presión del aire, y mayor será la velocidad del viento.

# In Class Assignment:

You have 15 minutes to complete today's In Class Assignment. Get a Chromebook and go to the class website.

Click on the **Weather Map Practice** link

Submit the assignment before the timer goes off. If you finish early, work quietly on you Weather Watchers Project.

# Exit Ticket

Answer the questions below about the severe weather you chose:

1. What causes it?
2. What region is most susceptible?
3. What is the source of the damage caused by this severe weather?

Responda las siguientes preguntas sobre el clima severo que elija:

1. ¿Qué lo causa?
2. ¿Qué región es más susceptible?
3. ¿Cuál es la fuente del daño causado por este clima severo?