**Wind**

**Wind-** horizontal movement of air which is caused by **differences in air pressure**.

Air moves from **HIGH PRESSURE** to **LOW PRESSURE!** The differences in pressure are caused by uneven heating of the earth!

**HOT AIR RISES=LOW PRESSURE**

**COLD AIR SINKS= HIGH PRESSURE**

**Wind direction-** the direction that the wind is coming **from**

**Example:** the wind is coming from the west so the wind direction is **WEST**

**Example 2:** the wind is from the north so the wind direction is **NORTH**

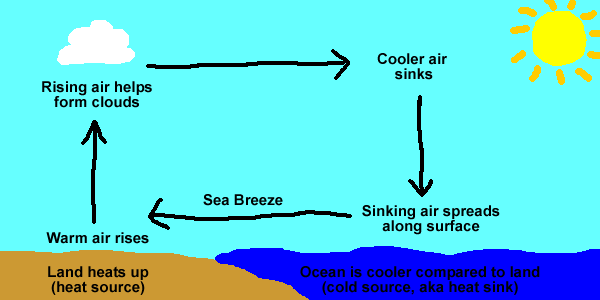
**Example 3:** the wind is blowing to the east so the wind direction is **WEST**

**Wind Speed-**the rate at which wind moves in knots or mph

**Large difference in air pressure= strong winds**

**Small difference in air pressure = weak winds**

**Example:** Sea Breeze on a sunny summer day!



HIGH PRESSURE

LOW PRESSURE

**NOTE:** Winds appear to curve to the **right** in the northern hemisphere. This is caused by the earth’s rotation and is known as the **Coriolis Effect**

**Wind Questions:**

1. What causes wind? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Hot air \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and cold air \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Hot air is associated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pressure.
4. Cold air is associated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pressure.
5. Explain the relationship between wind speed and differences in air pressure. (2 complete sentences)

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1. As air circulates this is known as what type of energy transfer?
   1. Conduction
   2. Convection
   3. Radiation
2. Which factor most directly affects the wind speed between two locations?
   1. Cloud cover
   2. Time of day
   3. Air pressure
3. Wind appears to curve to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the northern hemisphere
   1. Left
   2. Up
   3. Right
4. The curving of wind in the northern hemisphere to the right is known as
   1. Coriolis Effect
   2. Pressure
   3. Temperature