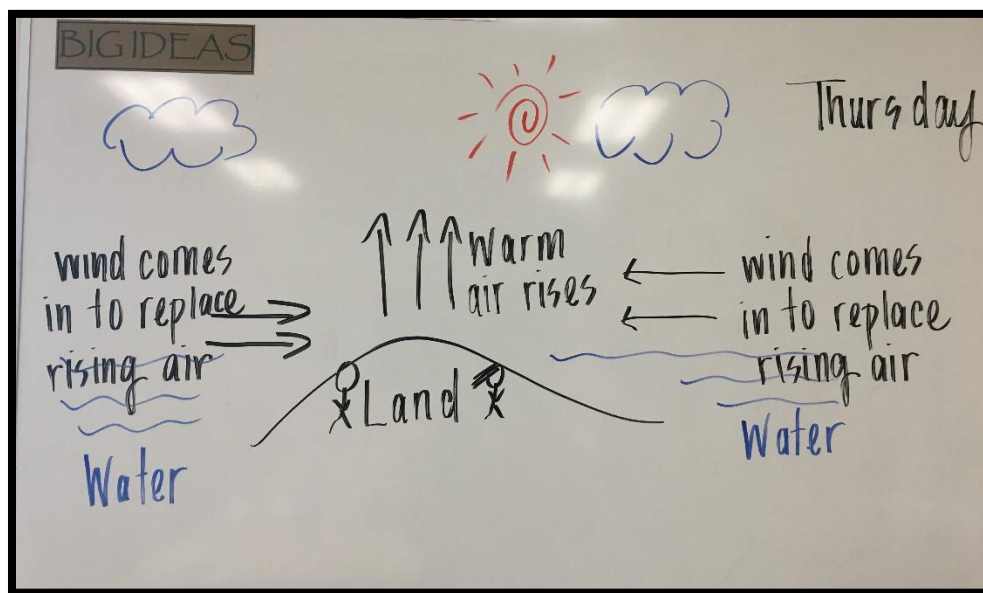


October 13, 2016

Wind/Back Drafts/Convection Currents

Wind is simply air that is moving. It is created when air flows from areas of high pressure to areas of low pressure. The larger the difference between high and low pressure areas, the **STRONGER** the wind.

One of the most common causes of wind is the sun's uneven heating of the land and water. During the day, the land heats up faster than water. This warm air above the land will rise, forming a low pressure. As this air rises, cooler air from the sides (high pressure area) will come in to fill its place. This explains why the wind often "picks up" in the late morning and afternoon as air is warmed quickly, then "dies off" when the sun sets in the evening.



INDOORS (e.g. gym):

During a hot day, the air outside will be warmer than the air inside the gymnasium. The cool air of the room will rush outside when you open the door particularly along the bottom half of the door opening. As cool air rushes out warmer outside air must come into the room somewhere to equalize the pressure. This will often occur along the upper half of the opening door where you will find an incoming draft of warmer air outside. If there are open windows the air will come in through these openings. If the air outside is colder than the air in the room, the reverse will occur in air movements.