Name:	
Date:_	
Class: <u>F</u>	Physical Science
Block:_	
Video -	- Air Pressure
<u>Directi</u>	ons: Watch the video on "Air Pressure" and complete the questions below.
1.	is always pushing on us from all sides.
2.	There is aboutlbs of air pressure per square inch, but at the same our bodies push back
	against air pressure with force, which it out and we don't get crushed.
3.	near the ground are packed closely together by the weight of
	the air above. This is why at sea level, they are much denser; however higher up in the
	atmosphere, there is a lot less air pushing from above, and so the air molecules are not packed
	tightly together.
4.	Example of pressure changing suddenly:
	. At much greater heights there is less air weight pressing on you,
cau	using your body to readjust/react to pressure changing.
5.	Scientists use and other tools to study the air pressure to predict weather
	and study climate.
6.	Experiment to see how air expands as it gets warmer.

Procedure	Materials needed/Questions		
 Take a balloon and blow it up. Place it over the mouth of the bottle. 	Balloon, empty bottle, warm water		
Place it in the freezer for 10 minutes. Run some hot water in the sink.	Question: 1. What did the balloon look like after it was taken out of the freezer?		
3. Submerge the bottle in the warm water.	What happened to the balloon when it was placed in the warm water?		

7.	In the atmosphere, warm air expands, gets lighter, and rises in the atmosphere causing a
	pressure area.

8. How to make a barometer:

Procedure	Materials needed	
1. Cut the balloon neck.	Large balloon	
2. Stretch it over the jar.	Scissors	
3. Seal the balloon to the jar with tape	Large jar with wide opening	
Insert the triangle into one end of the straw	Packing tape	
5. Glue the other end of the straw to the balloon lid	Drinking straw	
6. Put a piece of paper on the wall	Glue	
7. Place the straw up against the wall and mark the paper where it meets (draw a line)	Paper/pen/ruler/small poster board triangle	
8. This is how you note the changes in air pressure.	Questions: *If the pointer moves down, there is less	
9. Check the position of the pointer every few hours.10. Each time write down the measurements by drawing a line with the date and time.	atmospheric pressure pushing down on the barometer: pressure *If the pointer moves up, there is more atmospheric pressure pushing down on the balloon: pressure	

9.	Knowing how to accurately measure the atmospheric pressure is critical to weather forecasters			
	Low air pressure means that it is genera	ally	weather with expected storms and	
	precipitation.			
10.	When the air pressure is	, it generally m	eans good weather with clear skies.	

Exit ticket: Make a Venn Diagram to compare high pressure and low pressure.