

## Quiz Review - Properties of Air and Matter

VOCABULARY TERM OR CONCEPT	WHAT YOU NEED TO KNOW
Mass	The measurement of the amount of Matter in an object, The Mass of an object is always constant.
Weight	The measure of the force of gravity acting on an object. The weight of an object will change depending on how strong the force of gravity is that is pulling on it. <ul style="list-style-type: none"> <li>Be able to explain the difference between weight and mass.</li> </ul>
Density	The measurement of how much mass of a substance is contained in a given volume. <ul style="list-style-type: none"> <li>Be able to calculate the density of an object if you are given a mass and volume.</li> <li>Be able to determine if an object will float or sink based on its density.</li> </ul>
Volume	The amount of space that matter occupies.
Boyles Law	As the volume of a gas is changed, pressure changes in the opposite way. For example the more pressure you place on a air, the less volume it takes up.
Charles Law	When the temperature of a gas is increased at constant pressure, its volume increases. In other words as temperature increases, volume increases. An alternatively, as temperature decreases, volume decreases. <ul style="list-style-type: none"> <li><b>Be able to apply Charles law to what happens when you take a balloon outside in cold weather.</b></li> </ul>
Air Pressure	The result of the weight of a column of air pushing down on an area.
	In addition to the concepts above you should know the following: <ul style="list-style-type: none"> <li>Units of measure for Mass (grams) Volume (mL or Cm<sup>3</sup>) Density (g/mL, or Cm<sup>3</sup>)</li> <li>How air molecules behave under different amounts of pressure.</li> </ul>