

**Table 1.4.** Classifications of opinion, hypothesis, and theory statements.

F or L	Statement
	A water molecule is made up of two hydrogen atoms and one oxygen atom.
	<b>Explanation:</b>
	For an object with a known mass, an unbalanced applied force will result in an acceleration determined by $F = ma$ .
	<b>Explanation:</b>
	If all other factors are kept the same, water at 50°C is less dense than water at 20°C.
	<b>Explanation:</b>
	If the volume of a gas is decreased, the pressure will increase. Pressure and volume of a gas are inversely related by $pV = k$ .
	<b>Explanation:</b>