

Unit 4 – Describing Substance Objectives

<p>1. Distinguish between a pure substance and a mixture by</p> <ul style="list-style-type: none"> • properties • separation techniques • composition (macro- and microscopically) 	
<p>2. Describe how to use characteristic properties to separate the components of a mixture:</p> <ul style="list-style-type: none"> • identify the separation technique (name, equipment) • identify the property used in the separation 	
<p>3. Cite evidence for the presence of “compounded” matter particles;</p> <p>Describe the differences between elements and compounds</p> <p>(Learn the names and symbols for common elements)</p>	

<p>4. State Avogadro's Hypothesis (AH) and the evidence that led to this hypothesis.</p> <p>Use AH along with combining volumes of gases to deduce the composition of some compounds</p>	
<p>5. State features of Dalton's model of the atom.</p>	
<p>6. State the Law of Definite Proportion and the Law of Multiple Proportions.</p> <p>Show how the mass composition of compounds provides evidence for these two laws.</p>	<p>Law of Definite Proportion</p> <p>Law of Multiple Proportions</p> <p>Evidence:</p>