

## Unit 1 - Measurement & Matter

In order to have the opportunity to retest, you must complete the following on a separate sheet of paper.

- Define or explain at **least 5** of the important vocabulary/key concepts
- Watch each **at least 5** of the videos and answer the questions within them. Write your answers to the questions on your paper
- \*\* Focus on the concepts and parts of the units that missed on the original tests.

Bring your completed reassessment to Advantage Time before the next unit test to receive your retest.

<b>Properties of Matter</b>	<p>Important Vocab</p> <ol style="list-style-type: none"><li>1. Element</li><li>2. Compound</li><li>3. Molecule</li><li>4. Homogeneous Mixture</li><li>5. Heterogeneous Mixture</li><li>6. Chemical Property</li><li>7. Physical Property</li><li>8. Intensive Property</li><li>9. Extensive Property</li><li>10. Solid</li><li>11. Liquid</li><li>12. Gas</li></ol> <p>Key Concepts</p> <ol style="list-style-type: none"><li>1. Distinguishing between elements, compounds, and types of mixtures</li><li>2. Describe as definite or indefinite the shape and volume of the 3 states of matter</li><li>3. Distinguishing between chemical &amp; physical properties</li><li>4. Distinguishing between intensive &amp; extensive properties</li></ol> <p>Videos</p> <ol style="list-style-type: none"><li>1. <a href="#">States of Matter</a> (2 Questions)</li><li>2. <a href="#">Atoms, Elements, Molecules, &amp; Compounds</a> (6 Questions)</li><li>3. <a href="#">Chemical &amp; Physical Properties</a> (2 Questions)</li><li>4. <a href="#">Intensive vs. Extensive Properties</a> (3 Questions)</li><li>5. <a href="#">Substances vs. Mixtures</a> (5 Questions)</li></ol>
<b>Density</b>	<p>Important Vocab</p> <ol style="list-style-type: none"><li>1. Mass</li><li>2. Volume</li></ol>

	<p>3. Density</p> <p>Formulas:</p> <p>1. <math>D = m/V</math></p> <p>Videos</p> <ul style="list-style-type: none"> <li>• <a href="#">Density practice problems</a></li> </ul>
<b>Measurement &amp; Significant Figures</b>	<p>Important Vocab</p> <ol style="list-style-type: none"> <li>1. Estimated Digit</li> <li>2. Accuracy</li> <li>3. Precision</li> <li>4. Significant Figures</li> </ol> <p>Key Concepts:</p> <ol style="list-style-type: none"> <li>1. How to measure correctly to the right number of decimal places</li> <li>2. Rules of Significant Figures</li> <li>3. Scientific Notation</li> </ol> <p>Formulas:</p> <ul style="list-style-type: none"> <li>• Percent Error: <math>\% \text{ error} = \frac{ \text{experimental} - \text{accepted} }{\text{Accepted}} \times 100\%</math></li> </ul> <p>Videos:</p> <ol style="list-style-type: none"> <li>1. <a href="#">Significant Figures</a> (4 questions)</li> <li>2. <a href="#">Scientific Notation</a> (4 questions)</li> <li>3. <a href="#">Metric System and Metric Conversions</a> (8 questions)</li> </ol>
<b>Unit Conversions: Dimensional Analysis</b>	<p>Important Vocab</p> <ol style="list-style-type: none"> <li>1. Conversion Factor</li> </ol> <p>Key Concepts</p> <ol style="list-style-type: none"> <li>1. Convert units using dimensional Analysis Method</li> </ol> <p>Videos:</p> <ol style="list-style-type: none"> <li>1. <a href="#">Factor Label Method - 1 Conversion</a> (4 questions)</li> <li>2. <a href="#">Factor Label Method - Multiple Conversions</a> (4 questions)</li> </ol>