



## Matter - Learning Targets

### Advanced Physical Science 6

	Learning Target	Essential Vocabulary	Before	After
<u>1</u>	I can identify the physical properties of matter.	<ul style="list-style-type: none"> <li>Matter</li> <li>Physical properties</li> </ul>		
<u>2</u>	I can explain the difference between an atom and a molecule.	<ul style="list-style-type: none"> <li>Atoms</li> <li>Molecules</li> </ul>		
	<i>Learning Target 2 Extension:</i> I can demonstrate/model/prove that changing the physical properties of matter does not change the identity of the substance.			
<u>3</u>	I can identify the arrangement of particles in solids, liquids, and gases.	<ul style="list-style-type: none"> <li>Gas</li> <li>Liquid</li> <li>Solid</li> </ul>		
<u>4</u>	I can analyze the particle movement in phase changes, including melting, freezing, condensation, evaporation, and sublimation.	<ul style="list-style-type: none"> <li>Condensation</li> <li>Evaporating</li> <li>Freezing</li> <li>Melting</li> <li>Phase change</li> <li>Sublimation</li> </ul>		
	<i>Learning Target 4 Extension:</i> I can use the kinetic theory of matter to explain the differences between the states of matter.			
<u>5</u>	I can use the particle model of matter to explain density, dissolving, compression, diffusion, and thermal expansion.	<ul style="list-style-type: none"> <li>Compression</li> <li>Density</li> <li>Diffusion</li> <li>Dissolving</li> <li>Kinetic Theory of Matter</li> <li>Particle Model of Matter</li> <li>Thermal expansion</li> </ul>		
	<i>Learning Target 5 Extension:</i> I can demonstrate in a unique way how particle movement relates to phase changes.			
*Underlined Learning Target numbers must be mastered at 80% or higher.				