

**Enduring Understanding:** There are relationships among vector quantities of position, velocity, and acceleration for the motion of a particle along a straight line.

<b>Demonstration of Mastery</b>	
I can determine appropriate expressions for velocity and position as a function of time for an object accelerating uniformly with given initial conditions.	
I can calculate unknown variables of motion for an object undergoing uniformly accelerated motion.	
I can calculate average, min or max velocity for an object accelerating uniformly.	
I can mathematically determine functions of position, velocity, and acceleration that are consistent with each other, for the motion of an object with nonuniform acceleration (i.e., differentiation/integration).	
I can graphically describe the motion of an object in terms of the consistency that exists between $x$ vs. $t$ , $v$ vs. $t$ , $a$ vs. $t$ that depends on an understanding of slope, intercepts, areas or conceptual calculus.	

<b>Demonstration of Skills</b>	
I can evaluate a problem and determine the best approach to solving the problem.	
I follow the problem solving guidelines.	
I can evaluate the significance of my final answers (magnitude, sign)	
I can correctly title and label a graph.	
I support conceptual explanations with appropriate physics.	
I can successfully decode multiple choice questions.	

