

AP Physics 1 - Unit 3, Constant Acceleration Particle Model Learning Goals

Name:

Period:

	V1	V2	V3	V4	V5	
3.1 CAPM I can create and interpret representations of the motion of an object moving with a changing velocity. <i>Includes</i>						
<ul style="list-style-type: none"> • <i>Position-time graphs, velocity-time graphs, acceleration-time graphs</i> • <i>motion maps.</i> • <i>Find instantaneous or average velocity from the slope of the x-t graph.</i> • <i>Find average acceleration from the slope of a v-t graph.</i> • <i>Find change-in-position from the area beneath a v-t graph.</i> • <i>Find change-in-velocity from the area beneath an a-t graph.</i> • <i>Describe the motion of an object in words based on a motion diagram/graph.</i> 						
3.2 CAPM I differentiate between acceleration and velocity. <i>Includes:</i>						
<ul style="list-style-type: none"> • <i>Also differentiate between velocity and change-in-velocity.</i> 						
3.3 CAPM I correctly interpret the meaning of the sign of the acceleration.						
<ul style="list-style-type: none"> • <i>The sign of the acceleration matches the sign of the slope on the velocity-vs-time graph.</i> 						
3.4 CAPM I can describe the motion of an object in words using the velocity-vs-time graph.						
3.5 CAPM I can solve mathematical problems using versions of the three kinematics equations, including justifying a solution process.						

Quiz Average Calculations: $50 + 25[\frac{\text{total standards score}}{\#\text{standards}}]$

A perfect score, if there were five standards: $\text{Quiz Average} = 50 + 25[\frac{10}{5}] = 100\%$