

AP PHYSICS
Assessment Feedback Form

Name:
Topic: Two-Dimensional Motion

Enduring Understanding: There are multiple simultaneous relationships among the quantities of position, velocity, and acceleration for the motion of a particle moving in more than one dimension with or without net forces.

| Demonstration of Mastery | |
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| I can calculate the components of a velocity, position or acceleration vector in two dimensions. | |
| I can derive an expression for the vector position, velocity or acceleration of a particle, at some point in its trajectory, using a vector expression or using two simultaneous equations. | |
| I can calculate kinematics quantities of an object in projectile motion, such as displacement, velocity, speed, acceleration and time, given initial conditions of various launch angles, including a horizontal launch at some point in its trajectory. | |
| I can mathematically describe the motion of an object in two-dimensional motion in terms of the consistency that exists between position and time, velocity and time and acceleration and time. | |
| I can graphically describe the motion of an object in two-dimensional motion in terms of the consistency that exists between position and time, velocity and time and acceleration and time. | |

| Demonstration of Skills | |
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| 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. | |

