

Physics Target 02-02 **I can analyze the trajectory of a projectile.**

Learning Goals Record For _____

E	Exceeds Target (Exemplary)
M	Mastery of Target (Application)
P	Proficient in Target
AP	Approaching Proficiency
ND	Needs Development
NE	No Evidence to Measure

Assignment/Assessment & Date

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Projectiles Goal 1 For a projectile, I can describe the changes in the horizontal and vertical components of its velocity when air resistance is negligible.							
Projectiles Goal 2 I can explain why a projectile moves equal distances horizontally in equal time intervals, when air resistance is negligible.							
Projectiles Goal 3 I can predict the displacement of a projectile from launch velocity.							

Express horizontal and vertical components of velocity and position.

Sketch or identify graphs of these components.

Use these expressions in analyzing the motion of a projectile that is projected with an arbitrary initial velocity.

Solve problems involving objects experiencing projectile motion. Identify when an object is in free fall (the only force acting on it is F_{earth}) Use constant velocity particle model (CVPM) for x-direction motion, constant acceleration particle model (CAPM) for y-direction motion of a projectile.

I can accurately represent a projectile in multiple ways (graphs, diagrams, etc). Draw separate x-and y-position, velocity, acceleration graphs for the projectile.