

## AP Physics 1 – Fall 2014 Final Exam Study Guide

### Exam Date:

Friday, December 19, 2014

### Exam Topics:

1. Representing Motion (August 20 – September 10)
  - a. Motion Diagram/Particle Model
  - b. Position: Distance vs. Displacement
  - c. Position vs. Time Graphs
  - d. Velocity (Speed)
  - e. Significant Figures, Scientific Notation, and Units
  - f. Scalars vs. Vectors
2. Motion in One Dimension (September 18 – October 21)
  - a. Uniform Motion
  - b. Instantaneous Motion
  - c. Acceleration
  - d. Velocity vs. Time Graphs
  - e. Kinematic Equations
  - f. Free Fall
3. Vectors and Motion in Two Dimensions (October 27 – December 3)
  - a. Representing and Using Vectors
  - b. Motion on a Ramp
  - c. Projectile Motion
  - d. Circular Motion

### Exam Format:

1. Multiple Choice: 15 questions (No calculator and no formulas allowed)
2. Free-Response: 3-4 questions (Calculator permitted and formula sheet provided)