

# MIDTERM STUDY GUIDE - HONORS PHYSICS

**WARNING!** This is only a guide in order to focus your studying effort. The midterm will not be exactly like this. If it was, it would only be measuring your powers of memorization, and you know how I despise that. The problems presented here approximate those in the midterm they do not mimic them. Please study over and above that which is given here.

## CONCEPTS

### physics skills

Proportion types, metric conversions, uncertainty types & characteristics, accuracy, % error, scalar/vector, vector addition/subtraction.

### 1-D kinematics

distance/displacement, speed/velocity, acceleration, kinematics graphs, freefall.

### relative motion & projectiles

frames-of-reference, projectile velocity & acceleration characteristics, horizontal – vertical motion independence, "maximum range" angle.

### force & motion

Newton's laws of motion, kinetic/static friction, air resistance – factors, terminal velocity.

### dynamics

tension & compression, translational equilibrium, force components, inclines, Atwood machines

### circular motion & universal gravitation

centripetal force/acceleration characteristics, centripetal force relationships with velocity, mass, radius, apparent weight, Law of Universal Gravitation characteristics.

### simple harmonic motion

period/frequency dependencies of pendulum and spring.

## EXAMPLE PROBLEMS

1. A car travels 10.0 km north in 400.0 s. Then it travels 25.0 km south in 850.0 s. What is the (a) average speed and (b) average velocity of the car?
2. A body with initial speed of 8.0 m/s moves along a straight line with constant acceleration and travels 640 m in 40.0 s. Find the (a) average velocity, (b) final velocity, and (c) acceleration.
3. A truck starts from rest and moves with a constant acceleration of  $5.0 \text{ m/s}^2$ . Find its a) speed and b) the distance traveled after 4.0 s has elapsed.
4. A marble dropped from a bridge strikes the water in 5.0 s. Calculate (a) the speed with which it strikes and (b) the height of the bridge.
5. A baseball is thrown straight upward with a speed of 30.0 m/s. (a) How long will it rise? (b) How high will it rise? (c) How long after it leaves the hand will it return to the starting point?

# Honors Physics Study Guide

**RJ Alexander**



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