

Honors Physics – SLO Assessment Review

Assessment Date: Monday, May 18, 2015 and Wednesday, May 20, 2015

Topics:

1. One-Dimensional Motion

Distance, displacement, speed, velocity, acceleration, vector, scalar, position vs. time graph, velocity vs. time graph, free fall, gravitational acceleration, kinematic equations

2. Newton's Laws

Inertia, force (definition/types), free body diagram, net force, Newton's 1st Law, equilibrium, Newton's 2nd Law, Newton's 3rd Law

3. Momentum and Impulse

Momentum, change in momentum, impulse, conservation of momentum

4. Work, Power, and Energy

Work, potential energy, kinetic energy, mechanical energy, power

5. Periodic Motion

Wave, transverse wave, longitudinal wave, mechanical wave, amplitude, wavelength, speed, frequency, period, pendulum, period of a pendulum, spring force, potential energy of a spring, reflection, interference, refraction

6. Sound Waves

Node, antinode, pitch, loudness, **Charge and Electric Force**
Charge (types), proton, electron, Coulomb's Law, electric force