## KEY

NNHS Introductory Physics: MCAS Review Packet #1

## Introductory Physics, High School

### Learning Standards for a Full First-Year Course

### I. CONTENT STANDARDS

#### 1. Motion and Forces

Central Concept: Newton's laws of motion and gravitation describe and predict the motion of most objects.

- 1.1 Compare and contrast vector quantities (e.g., displacement, velocity, acceleration force, linear momentum) and scalar quantities (e.g., distance, speed, energy, mass, work).
- 1.2 Distinguish between displacement, distance, velocity, speed, and acceleration. Solve problems involving displacement, distance, velocity, speed, and constant acceleration.
- 1.3 Create and interpret graphs of 1-dimensional motion, such as position vs. time, distance vs. time, speed vs. time, velocity vs. time, and acceleration vs. time where acceleration is constant.
- 1.4 Interpret and apply Newton's three laws of motion.
- 1.5 Use a free-body force diagram to show forces acting on a system consisting of a pair of interacting objects. For a diagram with only co-linear forces, determine the net force acting on a system and between the objects.
- 1.6 Distinguish qualitatively between static and kinetic friction, and describe their effects on the motion of objects.
- 1.7 Describe Newton's law of universal gravitation in terms of the attraction between two objects, their masses, and the distance between them.
- 1.8 Describe conceptually the forces involved in circular motion.

### 2. Conservation of Energy and Momentum

Central Concept: The laws of conservation of energy and momentum provide alternate approaches to predict and describe the movement of objects.

- 2.1 Interpret and provide examples that illustrate the law of conservation of energy.
- 2.2 Interpret and provide examples of how energy can be converted from gravitational potential energy to kinetic energy and vice versa.
- 2.3 Describe both qualitatively and quantitatively how work can be expressed as a change in mechanical energy.
- 2.4 Describe both qualitatively and quantitatively the concept of power as work done per unit time.
- 2.5 Provide and interpret examples showing that linear momentum is the product of mass and velocity, and is always conserved (law of conservation of momentum). Calculate the momentum of an object.

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**Lingjun Ying** 

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