



















## **Review for Unit 4**

Terms to know:

- Force
- Contact Force
- Acceleration • Mass
- Field Force • Inertia
- Weight (Fg)
- Action-reaction forces

- Concepts to Know:
  - Know Newton's three laws of motion
    - Law of Inertia
    - Law of Acceleration (and its mathematical representation)
    - Law of Interactions
  - Know what a force is and what it does to an object
  - Know the two types of forces, be able to describe the differences and classify examples as either field or contact forces
  - Understand the relationship between force, mass and acceleration

- Be able to:
  - Draw and label free-body diagrams and determine net force
  - Calculate the net force
  - Calculate force, mass, weight and acceleration
  - Determine net force:  $\Sigma F$  = ma
  - Weight/Force gravity:  $F_g = mg$  (g = +9.8 m/s<sup>2</sup>)
  - Write net force equations
- There will be multiple choice questions as well as force problems.