Topic for Newton’s second law quiz:

1) Simple 1-D F=ma questions. Ex: An object is accelerating at a rate of \_\_\_\_\_. What are the sum of the forces acting on the object?

2) Determine the forces acting on an object at rest (Fg and Fn).

3) Determine the force or friction μ=Ff/Fn.

4) Determine the force of friction:

 -Given an applied force and mass

 -Given the angle of an inclined plane and mass

 -Given angle of applied force, magnitude of the applied force and mass

5) Determine μ given mass and acceleration.

6) Given variable from 4 & 5, determine the mass of the object.

7) Multi-body problems:

 -Multiple Tensions (1-D)

 -Atwood’s Machines

 -Modified Atwood’s (core set up)