Answer the following questions and study the following topics to prepare for the upcoming multiple choice quiz. Note you must know all relevant units.

1) Summarize Newton’s 1st Law of Motion.

2) Summarize Newton’s 2nd Law of Motion.

3) If a 100kg cart is pushed by a net horizontal force of 50N what will be the acceleration of the cart?

4) What net force must be needed to accelerate a 10,000kg rocket at 25m/s²?

5) Consider two blocks in freefall. One has twice the mass of the other. Compare their motion.

6) Why is the following statement false? “The larger the net force acting on an object, the faster it will go.”

7) Consider a falling object that is not in freefall due to air resistance. How does its acceleration compare to an object in freefall? What happens to it acceleration as it falls?

8) Summarize Newton’s 3rd Law of Motion. Know how to find the action and reaction forces.