# Anticipation Guide: Acceleration and Newton’s Second Law

**Before Reading:** In the space to the left of each statement, place a check mark (✓) if you agree or think the statement is true or an (X) if you disagree or think the statement is false.

**During or After Reading:** Add new check marks or cross-through the X’s for which you have changed your mind. Keep in mind that this is not like the traditional “worksheet”. You may have to put on your thinking caps and “read between the lines.” Use the space under each statement to note the **page, column, and paragraph(s)** where you have found information to support your thinking (evidence).

1. \_\_\_\_\_ An object can have more than one force acting on it at a time.
2. \_\_\_\_\_ Under a constant force the acceleration of an object increases as mass of object increases.
3. \_\_\_\_\_ Force plus the time it is applied is called impulse.
4. \_\_\_\_\_ Force equals mass times velocity.
5. \_\_\_\_\_ Momentum is mass times velocity.

Momentum and Newton’s Third Law

1. \_\_\_\_\_ For each force there is an equal and opposite force.
2. \_\_\_\_\_ Newton’s 3rd law is also called Action-Reaction law.
3. \_\_\_\_\_ The momentum of a system is always conserved.
4. \_\_\_\_\_ The center of mass of an object is also called its balancing point.
5. \_\_\_\_\_ Impulse is a sudden change in momentum.