# Anticipation Guide: Forces and Newton’s First 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. \_\_\_\_\_ In order to make an object move, you must push or pull on it.
2. \_\_\_\_\_ A force changes the velocity of an object.
3. \_\_\_\_\_ Force is a vector, meaning it has both magnitude AND direction.
4. \_\_\_\_\_ Weight depends on gravity.
5. \_\_\_\_\_ The units of mass are meters in the mks system.
6. \_\_\_\_\_ The tendency for something to remain at rest is called inertia.
7. \_\_\_\_\_ Newton’s 1st law is also known as the Law of Mass Motion.
8. \_\_\_\_\_ Isaac Newton formulated the principle of inertia.
9. \_\_\_\_\_ A body in motion will remain in motion as long as a force is being applied to it.
10. \_\_\_\_\_ Your mass will change as you leave the Earth’s gravity field.