

Cameron Robinson
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Period 9

Dear Sir Isaac Newton,

In this letter I would like to talk about your three laws and how they affect my everyday life. Your laws are very important to mankind because they help us to understand why objects do certain things. It is important to keep studying these laws because they are useful for making new inventions. For example knowing your first law helped us to know that we needed to make big, heavy, and sturdy buildings so that they don't get knocked over easily. Another example is your third law helped us to know that we need an opposite force to successfully send rockets up into space.

Your first law says that objects in motion stay in motion unless an unbalanced force acts on it. This is also known as inertia, which means that objects resist change in motion. For example a satellite in space won't stop going in a circle around the earth unless something like a spaceship or an asteroid hits it and changes its motion. Another example is in my baseball games. When I hit a baseball it will keep going until an unbalanced force, like a baseball glove, stops the balls movement.

Your second law states that the acceleration of an object equals the net force acting on the object divided by the object's mass. In more simple terms it is $F = M \cdot A$. $F = M \cdot A$ means that force equals mass times acceleration. For example, a speed skater will go faster around the track when they push harder with their legs. Another example is if I were on a skateboard and I pushed off the ground lightly with my foot I would go forward, but not with a lot of acceleration. But, if I were to push off the ground with more force than the first time then I would go faster than the time before.

Your third and final law states that for every action, there is an equal and opposite reaction. This means that for every force there is a reaction force that is equal in size, but in the opposite direction. One example could be, if I were to run into Tate we would both get pushed back because of the force. But, because Tate is bigger than me he would not get pushed back as far as I did. This happens because Tate has more mass than me and therefore is like an unbalanced force. Another way of explaining this law is when a rocket gets blasted off into space there is an action and reaction. The action is the engines blowing all the fire in the opposite direction of the rocket, and the reaction is the rocket blasting off into the sky.

In conclusion your three laws are VERY important to mankind because it has helped us to be more advanced further into the future. Even to this day we are still studying your laws to keep advancing and to make even better

inventions and creations. All in all, we are very lucky to have had a scientist like you create these laws. If it weren't for you we wouldn't be where we are today.