Austin Niwa

PHY-150

[Austin.niwa@snhu.edu](mailto:Austin.niwa@snhu.edu)

SNHU

I had trouble with a few concepts in this class like when to use specific kinematics equations and I had a bit of trouble with the elastic collision equation for a bit. Tasking the time to learn these concepts though, has helped me understand the world around me and how physics ties into everything we do. Things as simple as walking to the fridge or driving the car to work all require energy and go through different energy conversions. I try to keep in mind how things such as a phone falling on the floor cause the screen to break, as the force exerted from the floor is greater than the force the phone exerts on the floor, and it causes breakage. Before this physics class I knew a little bit about physics but not about how it would apply to my daily life and to what extent, now I know that newtons laws of motion and kinematics apply to nearly everything we do.

The most significant of the concepts I learned must be newtons second law of physics. It’s important to know that energy is never just lost but instead, converted into other energy types such as the rollercoaster whereas it goes down the potential energy is converted to kinetic energy and as it does up it is converted back to potential energy until it is forced to stop then it is converted into sound, heat energy, and friction.

If I had to note one change in my understanding of physics as a topic from this class I would have to note how my understanding of newtons third law has changed. I originally thought that every action had to have an equal but opposite reaction but that is not always the case. Sometimes the normal force can be stronger than the initial force placed on it. If it’s okay, I’ll use the phone project as an example again. Where with a hard plastic case the impact force was about 37.38923694400001n for me and the normal force was -39.41736160480001n. This is because there are outside forces acting on the force pair of the phone and the ground such as gravity and the normal force.

REFERENCES:

Niwa, Austin. (06.2023). Phy150/phy 150 Project Two(1).docx at main · mudkiz/Phy150. GitHub.https://github.com/mudkiz/Phy150/blob/main/phy%20150%20Project%20Two(1).docx