Force and Motion

Feb. 3, 2020 **Day 3/95**

At the end of todays lesson you will be able to determine;

- How do forces affect motion?

Classwork-

- Force and Motion 3.4
- Students apply their understanding of forces and their effects on the velocity of colliding objects. Students receive new evidence about the mass of the pod and space station and share their ideas about how this information would affect the pod's velocity after the collision.
- To prepare for writing a final report to Dr. Gonzales and USA, students use the Reasoning Tool to organize their thinking about evidence that supports the claim that the pod collided with the space station. They also use the Reasoning Tool to review the evidence and evaluate the claims about the pod's motion after the collision.
- Next, they visually model their understanding of the post-collision speed of the less massive pod and the more massive space station. Students begin writing a convincing scientific argument to Dr. Gonzales that explains why the pod is traveling faster than the station.
- The purpose of this lesson is for students to synthesize and apply what they have learned about equal and opposite forces and mass in collisions.

Homework-

- Finish up all of the activities in the Force and Motion section 3.4
- Bring in your Snow-Tubing Trip Form and Money.