

# FORCE AND MOTION

NEXT GENERATION SCIENCE STANDARDS

**Feb. 7, 2019**

**Day 4/100**

**At the end of today's lesson you will;**

- 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.

**Homework-**

- Students wrap up the mystery as they demonstrate their understanding of force and motion and their ability to write a scientific explanation.
- Complete the Force and Motion 3.4.5 homework, and 3.4.6 Self Assessment sections.

