

Force and Motion

Jan. 16, 2020

Day 4/84

At the end of today's lesson you will be able to determine;

- How do forces affect motion?

Classwork-

- Force and Motion 1.5
- Students continue to construct their understanding of the relationship between force and changes in velocity with the Force and Motion Simulation and Modeling Tool.
- To begin, students reflect on the article they read for homework as they consider how friction forces affect the motion of objects. Next, they complete a series of missions in the Sim that reinforce the different ways an object's velocity can change when forces are exerted in different directions. They have the additional challenge of determining the force strength required to cause specific changes.
- Students are then introduced to the Modeling Tool. They use evidence about velocity to infer the direction and force strength applied to each object. Students make their thinking about this concept visible as they create their models.
- The purpose of this lesson is to provide students the opportunity to build explanations from evidence about the relationship between force and velocity and to help them make sense of what they are learning about these concepts.

Homework-

- Finish up all of the activities in the Force and Motion section 1.5.
- Review the vocabulary terms we will use in this unit. Force and Motion Quizlet.