

Force and Motion

Jan. 30, 2020

Day 1/93

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

- How do forces affect motion?

Classwork-

- Force and Motion 3.2
- Review the Calculating Motion handout with the ANSWERS sheet.
- A series of activities helps students deepen their understanding of the forces exerted on objects during a collision. To begin, students show their initial ideas about collision forces by using the Modeling Tool to create visual models. Then they use physical materials to observe collisions between objects of equal and unequal mass, paying close attention to the resulting velocity change for each object.
- Students then use the Simulation to determine whether the forces exerted on objects in a collision are the same strength or different strengths. Students use their observations from these activities to make an inference about the direction and force strength exerted on each object in a collision.
- The purpose of this lesson is to provide students with evidence that the forces exerted in a collision push each object in opposite directions with the same strength.

Homework-

- For homework, students revise their earlier visual models to show how their thinking about forces in a collision has changed.
- Finish up all of the activities in the Force and Motion section 3.2
- Bring in your Snow-Tubing Trip Form and Money.