Honors Science 8

Physical Science: Forces

Honors Science 8 Curriculum

Power Objective

P.O. #1: Demonstrate how forces can change the motion of an object. (P.O. #1 Proficiency Rubric)

Academic Vocabulary

❑ free body diagram	❑ kinetic friction	❑ normal force
❑ force	❑ reference point	❑ velocity
❑ Isaac Newton	❑ net force	❑ acceleration
❑ drag	❑ magnitude	❑ vector
❑ inertia	❑ speed	❑ displacement

Enduring Understandings

Students understand that...

- Forces have magnitude and direction.
- Forces can change motion.
- When the net force is zero there is no change in an object's motion.
- Motion is measured and calculated with respect to a reference point and apparent motion changes depending on the reference point from which it is viewed.

Essential Questions

- How do we determine motion?
- Do forces affect motion?
- How do we quantify forces and motion?