

Science 8



Physical Science: Forces

Science 8 Curriculum

Power Objective

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

Academic Vocabulary

- ☐ free body diagram
- ☐ force
- ☐ friction
- ☐ drag

- ☐ kinetic friction
- ☐ reference point
- ☐ net force
- ☐ magnitude

- ☐ sum
- ☐ applied
- ☐ balanced
- ☐ unbalanced

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 with respect to a reference point and apparent motion changes depending on the reference point from which it is viewed.

Essential Questions

- What is motion?
- How do net forces change magnitude and direction?