

Physics



One Dimensional Motion and Newton's Law

Physics Curriculum

Power Objectives

P.O. #1: Apply principles of forces and motion to mathematically analyze, describe, and predict the net effects on objects and systems. (P.O. #1 Proficiency Rubric)

Academic Vocabulary

- ☐ Newton's first law
- ☐ Newton's second law
- ☐ Newton's third law
- ☐ period
- ☐ amplitude
- ☐ equilibrium
- ☐ force

- ☐ free body diagram
- ☐ inertia
- ☐ interaction pair
- ☐ kinetic friction
- ☐ simple harmonic motion
- ☐ static friction
- ☐ terminal velocity
- ☐ weightlessness
- ☐ net force

Enduring Understandings

Students understand that...

- The current theories and laws of motion were formulated through the contribution of culminated work done by Galileo, Newton. Newton's laws were formulated based on Galileo's work.

Essential Questions

- How did Newton build onto Galileo's discovered kinematical relationships and what did he do to contribute to develop the modern understanding of fundamental concepts of kinematical physics?