Unit 8: Newtons Law Copied from: General Science, Copied on: 07/29/25

Content Area: 1

Template

Course(s): Time Period:

Length:

Status: Published

State Mandated Topics Addressed in this Unit

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State Mandated Topics Addressed in this Unit	
N/A	N/A

Unit Name

Learning Objectives

- How do humans take advantage of naturally occurring variation among organisms?
- · How do humans use genetic engineering?
- · How do scientists study and work with specific genes?
- What are the ethical issues raised by genetic engineering?

Essential Skills

- Define the friction force and distinguish between static and kinetic friction.
- Describe how the weight and the mass of an object are related.
- Determine force that produces equilibrium when three forces act on an object.
- · Explain interaction pairs of forces and how they are related by Newton's third law
- Explain the meaning of Newton's first law and describe an object in equilibrium.
- Explain the tension in ropes and strings in terms of Newton's third law.
- Recognize Newton's second law of motion and use it to solve motion problems.

Standards

Instructional Tasks/Activities

- Exit Cards (answer to daily objective questions)
- Homework
- Section Review Questions
- Study Guide Packets
- • Vocabulary flash cards or map (word, picture, sentence, example)
- · Common assessment chapter test
- Common assessment quiz
- · Constructed response
- Do now's and/or exit slips
- Graphic organizers or models
- Guided practice
- Homework
- Individual, small, and large group work
- · Laboratory investigations within small groups
- Review Activity

Assessment Procedure

- Flashcards and/or drill and practice
- Inquiry based activities with reflective discussion
- Laboratory groups
- · Lecture with note taking or guided notes
- Online models and simulators
- Power point presentations
- Whole and small group discussions

Recommended Technology Activities

- Appropriate Content Specific Online Resource
- Chromebook
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs

- Google Forms
- Google Slides
- Kahoot
- MagicSchool Al
- Other- Specified in Lesson
- Quiziz
- Screencastify

Accommodations & Modifications & Differentiation

Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

Gifted and Talented

- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- · Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

Instruction/Materials

- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- extended time
- large print
- modified quiz
- modified test
- Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only

- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

Environment

- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

Honors Modifications

Resources

- Resource 1
- Resource 2
- Resource 3
- Resource 4
- Resource 5