

Newton's second law

Content This lesson introduces Newton's second law: $F = ma$. Students apply Newton's second law to calculate forces from motion, and motion from forces. The lesson includes an investigation where students explore the proportionality between the net force and acceleration. The investigation goal is to strengthen understanding of how the magnitude of net force acting on an object affects the object's acceleration, and how the mathematical expression for Newton's second law is derived.

Learning objectives The student will be able to:

- 1) explain the action of a net force on motion using the concept of acceleration;
- 2) calculate acceleration in units of m/s^2 when given mass and force; and
- 3) use a net force versus acceleration graph to understand the mathematical model for Newton's second law.

Materials/technology resources

- 1) Slide presentation: "NewtonSecondLaw.pptx"
- 2) Interactive calculator: "Newton's second law"
- 3) Investigation: Smart cart with hook, 250-g cart masses (2), dynamic track, track floor (2), support pulley with clamp, thread, hanging variable mass
- 4) SPARKvue file: "SPV_Newton'sSecondLaw.spvfile"
- 5) Student work: "NewtonSecondLawAssignment.pdf"

Lesson plan arguments

- **Whole-group discussion:** Ask the students what they think is probably the most widely used of all physics equations. They may suggest $E = mc^2$, but Newton's second law—today's topic—is far more commonly used.
- **Slide presentation:** The presentation begins by introducing Newton's second law and discussing its meaning: the acceleration of an object depends upon the net force on the object and its mass. Students use an interactive calculator to solve basic problems. Formal problem solutions are presented for two situations. First, the motion of an object is predicted by knowing the net force on it, and second, the net force on an object is calculated from its known motion. Students then move on to the investigation described below.
- **Investigation:** Students measure the net force on, and acceleration of a cart given five different net forces applied to it. Students plot a graph of their net force versus acceleration data and observe the proportional relationship between the variables. The investigation allows students to directly observe the effect of force on acceleration, and demonstrated that the proportionality constant between the two is equal to the mass of the object.
- **Student work:** Newton's second law assignment
The assignment sheet provides a place for students to record the results of their investigation. They should complete this with their lab partners.
- **Reading:** from the Essential Physics textbook, pages 143 - 146

Keys for differentiated instruction

force of 10 N acts upon a cart on a straight track. Label each row, possibly true, or false. (Use slide presentation)

with a constant velocity.

false

with a constant acceleration.

true

possibly true

g object is subject to a net force of 25 N. What is the speed in m/s^2 ? (Use slide presentation)

$$a = \frac{F}{m} = \frac{25 \text{ N}}{10 \text{ kg}} = 2.5 \text{ m/s}^2$$

Now, how long will it be before its velocity is 25 m/s ?

$$v = at \text{ and } v_0 = 0 \text{ m/s, rearranging: } t = \frac{v}{a} = \frac{25 \text{ m/s}}{2.5 \text{ m/s}^2} = 10 \text{ s}$$

Is a graph showing a car's net force and acceleration data as the car accelerates. If the car drives in a straight line, what is the slope of the line? (Use presentation)

Is the slope of the line equal to mass in kg .
 $m = (200 \text{ N})/(20 \text{ m/s}^2) = 10 \text{ kg}$



Investigate with one-dimensional kinematics (displacement, velocity) and Newton's first law.

$$F = ma \quad a = \frac{F}{m}$$

Newton's second law

Standards

The student is expected to:

- calculate the effect of forces on objects; relationship between force and acceleration.

Crosscutting concepts

Forces

Cause and Effect

Systems and Models

Energy and Matter

Patterns and Processes

Stability and Change

Scale, Proportion, and Quantity

- When a net force acts on an object, it causes the object's velocity to change.

Key to differentiated instruction

kinesthetic

visual

linguistic

auditory

interpersonal

intrapersonal

kinesthetic

logical

Lesson plans cover:

- ★ content
- ★ materials
- ★ objectives
- ★ prior knowledge
- ★ vocabulary
- ★ crosscutting concepts

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RealTime Physics Active Learning Laboratories, Module 4 David R. Sokoloff, 2012-01-03 RealTime Physics is a series of introductory laboratory modules that use computer data acquisition tools microcomputer based lab or MBL tools to help students develop important physics concepts while acquiring vital laboratory skills Besides data acquisition computers are used for basic mathematical modeling data analysis and simulations There are 4 RealTime Physics modules Module 1 Mechanics Module 2 Heat and Thermodynamics Module 3 Electricity and Magnetism and Module 4 Light and Optics

Robotics in Education Wilfried Lepuschitz, Munir Merdan, Gottfried Koppensteiner, Richard Balogh, David Obdržálek, 2021-01-30 This proceedings book comprises the latest achievements in research and development in educational robotics presented at the 11th International Conference on Robotics in Education RiE which was carried out as a purely virtual conference from September 30 to October 2 2020 Researchers and educators will find valuable methodologies and tools for robotics in education that encourage learning in the fields of science technology engineering arts and mathematics STEAM through the design creation and programming of tangible artifacts for creating personally meaningful objects and addressing real world societal needs This also involves the introduction of technologies ranging from robotics platforms to programming environments and languages Evaluation results prove the impact of robotics on the students interests and competence development The presented approaches cover the whole educative range from elementary school to university in both formal as well as informal settings *The Science Teacher* ,1999 SCC Library has 1964 cur **Announcer** ,2004

Chemists' Guide to Effective Teaching Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 Part of the Prentice Hall Series in Educational Innovation for Chemistry this unique book is a collection of information examples and references on learning theory teaching methods and pedagogical issues related to teaching chemistry to college students In the last several years there has been considerable activity and research in chemical education and the materials in this book integrate the latest developments in chemistry Each chapter is written by a chemist who has some expertise in the specific technique discussed has done some research on the technique and has applied the technique in a chemistry course

Illinois Chemistry Teacher ,2001 Science Scope ,2000 **Children's Books in Print** ,1993 *RealTime Physics Active Learning Laboratories Module 2* David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2004-02-06 RealTime Physics is a series of introductory laboratory modules that use computer data acquisition tools microcomputer based lab or MBL tools to help students develop important physics concepts while acquiring vital laboratory skills Besides data acquisition computers are used for basic mathematical modeling data analysis and more simulations *RealTime Physics* David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and

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