

Newton's 1st Law - the law of inertia

An object with no net force acting on it remains at rest or in uniform.

- Objects at rest tend to stay at rest.
- Objects in motion tend to move in a straight line at constant speed.

Inertia - A property of matter which resists changes in motion.

The best measure of an object's inertia is its mass.

Force - A push or pull.

Net forces cause the motion of an object to change.

Examples of Newton's 1st Law in Action:

When you're in a car brake
when you're turning in a car.

In the egg demonstration:

Why does the tray fly across the table? Force was applied toward the tray

Why do the cardboard cylinders go with it? The friction force

Why do the eggs drop straight down into the water? is acting like a glue.
The eggs drop straight down because of gravity.

Physics Challenge: Why doesn't a car in motion on a flat road stay in motion?

Friction forces, and air resistance.

Examples of Accelerated Motion:

speeding up : slowing down : starting :
changing direction : stopping : moving in a circle

Inertia resists acceleration.

A net force causes acceleration.

Newton's 2nd Law - the law of acceleration

When a net force is applied to an object the object will accelerate in the direction of that force.

Show What You Know:

1. A 2. C 3. C 4. B 5. D

Physics Fundamentals 4 Note Taking Guide

James Millikin University



Physics Fundamentals 4 Note Taking Guide:

ACMG Climbing Guide Manual Association of Canadian Mountain Guides, 2023-06-01 This manual was developed to support the ACMG's Training and Assessment Program TAP courses in the climbing guiding streams and as a reference for ACMG certified guides

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services, 1984

A Manual of Physics James Arnold Crowther, 1919

The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Dept. of Defense American Council on Education, 1980

Resources in Education, 1998

The Publishers' Trade List Annual, 1917

Report of the Public Schools ... Missouri. Department of Education, 1905

Library of Congress Catalog: Motion Pictures and Filmstrips Library of Congress, 1968

Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, 1978

Engaging Ideas John C. Bean, Dan Melzer, 2021-06-09 Use your course's big ideas to accelerate students' growth as writers and critical thinkers The newly revised third edition of *Engaging Ideas* delivers a step-by-step guide for designing writing assignments and critical thinking activities that engage students with important subject matter questions This new edition of the celebrated book now written by the co-author team of Bean and Melzer uses leading and current research and theory to help you link active learning pedagogy to your course's subject matter You'll learn how to Design formal and informal writing assignments that guide students toward thinking like experts in your discipline Use time-saving strategies for coaching the writing process and handling the paper load including alternatives to traditional grading such as portfolio assessment and contract grading Help students use self-assessment and peer response to improve their work Develop better ways than the traditional research paper to teach undergraduate reading and research Integrate social media multimodal genres and digital technology into the classroom to promote active learning This book demonstrates how writing can easily be integrated with other critical thinking activities such as inquiry discussions simulation games classroom debates and interactive lectures The reward of this book is watching students come to class better prepared more vested in the questions your course investigates more apt to study purposefully and more likely to submit high quality work Perfect for higher education faculty and curriculum designers across all disciplines *Engaging Ideas* will also earn a place in the libraries of graduate students in higher education

The Massachusetts General Hospital Guide to Learning Disabilities H. Kent Wilson, Ellen B. Braaten, 2018-12-13 This book connects experts in the field of child assessment to provide child psychiatrists with knowledge in evaluation and educational programming The book provides a review of the latest science behind common learning disabilities including etiology and guidelines for assessment diagnosis neurodevelopmental disorders like learning disabilities ADHD psychiatric disorders in childhood such as mood and anxiety disorders and impact learning and development protocols The *Massachusetts General Hospital Guide to Learning Disabilities* evaluates the interventions that are effective in addressing these learning challenges in the context of multiple factors in a way that no other current text

does Special topics such as special education law and managing the needs of transitional age youth allow psychiatrists to support their patients and their families as they navigate the system By offering a better understanding the learning needs of their patients this texts gives readers the tools to consult with families and educators regarding how to address the learning needs of their patients at school and in other settings The Massachusetts General Hospital Guide to Learning Disabilities is a vital tool for child psychiatrists students assessment professionals and other professionals studying or working with children suffering from learning disabilities

Handbook of Research on Teaching Literacy Through the Communicative and Visual Arts James Flood, Shirley Brice Heath, Diane Lapp, 2011 The Handbook of Research on Teaching Literacy Through the Communicative and Visual Arts a comprehensive overview of research on this topic extends conceptualizations of literacy to include all of the communicative arts reading writing speaking listening viewing and the visual arts of drama dance film art video and computer technology

Bulletin of Wake Forest University Wake Forest College, Wake Forest University, 1918
Manual of Chemistry William Simon, Daniel Base, 1909 **MANUAL OF CHEMISTRY** W. SIMON, DANIEL BASE, 1923
Instructional Media Resources , 1985 **Scientific American** , 1904 Monthly magazine devoted to topics of general scientific interest Guide to the Evaluation of Educational Experiences in the Armed Services, 1954-1989 , 199?

Catalog James Millikin University, 1905 **Fundamentals of Photonics** Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

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