

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

Note Taking Guide 9physics

KJ Lindholm-Leary



Note Taking Guide 9physics:

NSTA Guide to Planning School Science Facilities LaMoine L. Motz, James T. Biehle, Sandra S. West, 2007 *NSTA Guide to Planning School Science Facilities* will help science teachers district coordinators school administrators boards of education and schoolhouse architects understand differences and develop science facilities that will serve students for years to come

Reader's Guide to Periodical Literature Supplement, 1926 *Resources in Education*, 1999 **Focus on Physical Science California Edition** Michael J. Padilla, 2007 **Handbook for Students** Vassar College. Library, 1918 **Trench**

Rescue C. V. Martinette, 2008 *Trench Rescue Awareness Operations Technician Second Edition* is the most comprehensive up to date trench rescue textbook on the market This new full color edition will help fire and rescue personnel learn the procedures necessary to conduct rescue operations that will mitigate most types of trench collapse incidents Based on NFPA 1006 Standard for Rescue Technician Professional Qualifications 2003 Edition the text is designed for awareness operations and technician level trench rescue courses Turn to *Trench Rescue Awareness Operations Technician Second Edition* for updated coverage of trench tools and equipment PPE rescue system preparation types of collapses hazard control and more

Handbook of Students Vassar College. Library, 1922 *The Impact of Pen and Touch Technology on Education* Tracy Hammond, Stephanie Valentine, Aaron Adler, Mark Payton, 2015-07-09 This book presents perspectives for and by teachers school and university administrators and educational researchers regarding the great impact pen and tablet technology can have on classrooms and education presents three distinctly valuable threads of research Emerging technologies and cutting edge software invented by researchers and evaluated through real classroom deployments First hand perspectives of instructors and administrators who actively implement pen or tablet technologies in their classrooms Up and coming systems that provide insight into the future of pen touch and sketch recognition technologies in the classrooms and the curriculums of tomorrow *The Impact of Pen and Touch Technology on Education* is an essential read for educators who wish get to grips with ink based computing and bring their teaching methods into the twenty first century as well as for researchers in the areas of education human computer interaction and intelligent systems for pedagogical advancement **Paper & Paper**

Making, Ancient and Modern Richard Herring, 1855 *The Publishers' Trade List Annual*, 1905 **The Accidental Creative** Todd Henry, 2013-08-27 Many of us assume that our creative process is beyond our ability to influence and pay attention to it only when it isn't working properly For the most part we go about our daily tasks and everything just works Until it doesn't Adding to this lack of understanding is the rapidly accelerating pace of work Each day we are face escalating expectations and a continual squeeze to do more with less We are asked to produce an ever increasing amount of brilliance in an ever shrinking amount of time There is an unspoken or spoken expectation that we'll be accessible 24/7 and as a result we frequently feel like we're always on Now business creativity expert Todd Henry explains how to unleash your creative potential Whether you're a creative by trade or an accidental creative this book will help you quickly and effectively integrate

new ideas into your daily life **Innovative Curriculum Materials** ,1999 Course Design Strategy Ethan Honary,2021-07-01 This book is packed with strategies and insights that will help you design better training courses It focuses on how people learn as the key factor in making design decisions The book shows you how to design a good course for any field no matter what medium you use to deliver it Learn how the brain works how people forget how to gain and maintain attention and how to make a subject interesting Then use the easy to follow guidelines to design strategically by increasing curiosity making content emotional making learners practise what they have learned and using failure as a teaching tool The art of designing a course and making people learn is mastered through practical experience of running courses the science is gained by evidence based research on how people learn The book combines the two offering many examples and studies in cognitive psychology neuroscience instructional design and training the trainer You will find lots of examples and studies in the book that provide insights that may not be obvious but that lead to important design decisions They will change forever how you think about training design and delivery and help you design courses that your learners will love In Course Design Strategy you will learn How to make content memorable What learners expect from a course How people learn and forget and why this should be the cornerstone of any course design How to use eureka moments and eureka concepts as the building blocks of course design How to make content easy to learn Why the presence of a feedback loop is crucial to learning How to use exercises and tests to enhance learning Teaching for Learning Claire Howell Major,Michael S. Harris,Todd D. Zakrajsek,2015-08-27 Despite a growing body of research on teaching methods instructors lack a comprehensive resource that highlights and synthesizes proven approaches Teaching for Learning fills that gap Each of the one hundred and one entries describes an approach and lists its essential features and elements demonstrates how that approach has been used in education including specific examples from different disciplines reviews findings from the research literature describes techniques to improve effectiveness Teaching for Learning provides instructors with a resource grounded in the academic knowledge base written in an easily accessible engaging and practical style **Current Index to Journals in Education** ,1979 **The Moving Picture World** ,1913 **Notes on the Properties of Matter and Heat** Exum Percival Lewis,1903 **Handbook for New Students**, 1922 Vassar College. Library,1922 **Research in Education** ,1974 **Normal Instructor and Primary Plans** ,1920

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