

Newton's 1<sup>st</sup> 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 1<sup>st</sup> 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 2<sup>nd</sup> 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

**R Bogdan**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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**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

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