

Physical Science EOCT Review Key Concepts

Section 1: Motion, Forces, and Energy

Motion and Force: SPS 8. Students will determine relationships among force, mass, and motion.

Energy: SPS 7. Students will relate transformations and flow of energy within a system.

Speed and Velocity: SPS 8a. Calculate velocity and acceleration.

- An object is in motion when it is continuously changing its position relative to a reference point. *Speed* is how fast an object is going with respect to an object. *Velocity* is a measure of the speed *in a given direction*. You can say the top speed of an airplane is 300 kilometers per hour (kph). But its velocity is 300 kph in a northeast direction.
- Calculating speed or velocity
 - Speed = distance/ time ($s = d/t$) and velocity = distance/time in a particular direction ($v = d/t$)

1. Bob travels 300 km in 10 hrs towards the store.	Speed = 300 km / 10 hr = 30km/hr
2. Ashley swims 50 m in 10 seconds.	Speed = 50 m / 10 s = 5 m/s

Acceleration: SPS 8a. Calculate velocity and acceleration.

Acceleration is the increase of velocity over a period of time. Deceleration is the decrease of velocity.

$$\text{Acceleration} = \text{final velocity} - \text{initial velocity} / \text{time}$$

$$a = (v_f - v_i) / t$$

Changing direction can also cause acceleration (or deceleration) because the velocity in that direction has changed.

Calculate the acceleration:

- A train traveling 20 meter per second takes 10 seconds to stop. $[0\text{m/s} - 20\text{m/s}]/10\text{s} = -2 \text{ m/s}^2$
- A boy gains a speed of 5 m/s after running for 20 seconds. $[5 \text{ m/s} - 0 \text{ m/s}]/20 \text{ s} = 0.25 \text{ m/s}^2$

Newton's Laws of Motion: SPS 8b. Apply Newton's 3 Laws to everyday situations by explaining the following: *inertia, relationship between force, mass, and acceleration, and equal and opposite forces.*

- Newton's 1st Law: The first law says that an object at rest tends to stay at rest, and an object in motion tends to stay in motion, with the same direction and speed unless acted on by unbalanced force. (Also called the Law of Inertia)
- Newton's 2nd Law: defines the relationship between acceleration, force, and mass. As the mass goes up, the same force will cause an object to have less acceleration. This law is often stated mathematically as $F = \text{mass} \times \text{acceleration}$.
- Newton's 3rd Law: The third law says that for every action (force) there is an equal and opposite reaction (force). Forces are found in pairs.



Forces and Gravitation: SPS 8c. Relate falling objects to gravitational force.

- Gravity is the force that pulls objects toward the Earth. It is affected by mass and distance.

The equation for the force of gravity is $F = mg$.

Acceleration due to gravity

The acceleration due to the force of gravity on Earth is $g: 9.8 \text{ m/s}^2$

Weight

The weight of an object is the measurement of the force of gravity on that object. You weigh something on a scale, according to the force that the Earth pulls it down: $w = mg$; where w is the weight in Newtons (N).

Mass and Weight: SPS 8d. Explain the difference between mass and weight.

Mass is a measure of how much matter an object has. Weight is a measure of how strongly gravity pulls on that matter. Mass is constant, but the weight may change.

Physical Science Eoct Form 3answer Key

G Thomas



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Replies [afterw.] The Oracle , The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces ,1905 *Government Reports Announcements & Index* ,1982 *Abstracts of Science and Technology in Japan* ,1988 *Transactions of the American Nuclear Society* American Nuclear Society,1985 System Identification 2003 Paul Van Den Hof,Bo Wahlberg,Siep Weiland,2004-06-29 The scope of the symposium covers all major aspects of system identification experimental modelling signal processing and adaptive control ranging from theoretical methodological and scientific developments to a large variety of engineering application areas It is the intention of the organizers to promote SYSID 2003 as a meeting place where scientists and engineers from several research communities can meet to discuss issues related to these areas Relevant topics for the symposium program include Identification of linear and multivariable systems identification of nonlinear systems including neural networks identification of hybrid and distributed systems Identification for control experimental modelling in process control vibration and modal analysis model validation monitoring and fault detection signal processing and communication parameter estimation and inverse modelling statistical analysis and uncertainty bounding adaptive control and data based controller tuning learning data mining and Bayesian approaches sequential Monte Carlo methods including particle filtering applications in process control systems motion control systems robotics aerospace systems bioengineering and medical systems physical measurement systems automotive systems econometrics transportation and communication systems Provides the latest research on System Identification Contains contributions written by experts in the field Part of the IFAC Proceedings Series which provides a comprehensive overview of the major topics in control engineering **LSC (EDMC ONLINE HIGHER EDUCATION) : VSXML Ebook Essentials of Nursing Informatics, 5th Edition** Virginia Saba,Kathleen A. McCormick,2011-06-10 The classic text on how nurses can use technology to improve patient care and every aspect of their job performance education and career Written by leaders in nursing informatics this comprehensive up to date text explores the ever growing role technology plays in the field of nursing Offering theoretical background to help you understand how informatics serves many aspects of the profession Essential of Nursing Informatics also gives you practical help in unlocking computing s benefits both now and into the future Numerous case studies and examples add real world relevance to the material An internationally recognized contributor team provides information and insights not found in any other text on essential topics such as the application of computers to nursing administration education and research electronic medical records EMRs and personal health records PHRs coding and government clinical and private sector system requirements Completely revised and updated with the latest information on specialized softwares and contributions the fifth edition of Essentials of Nursing Informatics covers Computer systems Information theory Current issues in informatics Continuum of care information technology systems Educational applications Research applications International perspectives including Europe Canada Pacific Rim Asia South America and South Africa

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