#### 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)
    - Bob travels 300 km in 10 hrs towards the store.
       Speed = 300 km / 10 hr = 30km/hr
    - 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.

Acceleration = final velocity - initial velocity/time

$$\mathbf{a} = \mathbf{v}_F \cdot \mathbf{v}_F / \mathbf{t}$$

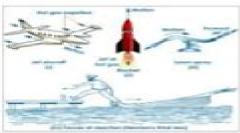
Changing direction can also cause acceleration (or deceleration) because the velocity in that direction has changed.

Calculate the acceleration:

- A train traveling 20 meter per second takes 10 seconds to stop. [0m/s 20m/s]/10s = 2 m/s<sup>2</sup>
- A boy gains a speed of 5 m/s after running for 20 seconds. [5 m/s 0 m/s]/20 s = 0.25 m/s<sup>2</sup>

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 1<sup>st</sup> 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 2<sup>rd</sup> Law: defines the relationship between <u>acceleration</u>, force, and <u>mass</u>. As the mass goes up, the same force will cause an object to have less acceleration. This law is often stated mathematically as F= mass x acceleration.
- Newton's 3<sup>rd</sup> 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 &c. Relate fulling 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  $\mathbf{F} = \mathbf{mg}$ .

Acceleration due to gravity

The acceleration due to the force of gravity on Earth is g: 9.8 m/s2

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:  $\mathbf{w} = \mathbf{mg}$ ; where  $\mathbf{w}$  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**

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## **Table of Contents Physical Science Eoct Form 3answer Key**

- 1. Understanding the eBook Physical Science Eoct Form 3answer Key
  - The Rise of Digital Reading Physical Science Eoct Form 3answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Eoct Form 3answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Science Eoct Form 3answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Eoct Form 3answer Key

- Personalized Recommendations
- Physical Science Eoct Form 3answer Key User Reviews and Ratings
- Physical Science Eoct Form 3answer Key and Bestseller Lists
- 5. Accessing Physical Science Eoct Form 3answer Key Free and Paid eBooks
  - Physical Science Eoct Form 3answer Key Public Domain eBooks
  - Physical Science Eoct Form 3answer Key eBook Subscription Services
  - Physical Science Eoct Form 3answer Key Budget-Friendly Options
- 6. Navigating Physical Science Eoct Form 3answer Key eBook Formats
  - o ePub, PDF, MOBI, and More
  - Physical Science Eoct Form 3answer Key Compatibility with Devices
  - Physical Science Eoct Form 3answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Eoct Form 3answer Key
  - Highlighting and Note-Taking Physical Science Eoct Form 3answer Key
  - Interactive Elements Physical Science Eoct Form 3answer Key
- 8. Staying Engaged with Physical Science Eoct Form 3answer Key
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Eoct Form 3answer Key
- 9. Balancing eBooks and Physical Books Physical Science Eoct Form 3answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Eoct Form 3answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Eoct Form 3answer Key
  - Setting Reading Goals Physical Science Eoct Form 3answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Eoct Form 3answer Key

- Fact-Checking eBook Content of Physical Science Eoct Form 3answer Key
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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