

Physical Science EOCT Study Guide – Domain 3

Physical Energy, Force, and Motion

Standards: PS.3-7 and 8

- i. Students will understand relationships and flow of energy within a system.
 - a. Explain thermal energy (heat) and kinetic energy (movement) and how they are related.
 - b. Explain heat. Thermal energy flows from objects that are hotter to objects that are cooler.
 - c. Explain specific heat. The amount of energy needed to raise the temperature of 1 kg of a substance by 1°C.
 - d. What is the formula for determining that change in heat that energy can add?

$$Q = mc\Delta T \quad \Delta T = T_2 - T_1$$
 - e. A sample of 0.5 kg of water at 20°C and specific heat of 4186 J/kg°C. Find the change in heat energy if the block is 2 mmol from 10°C to 20°C.

$$Q = mc\Delta T \quad 20 = 20 - 10 = 10 \quad 4186, \text{ and } 0.5$$
 - f. Explain conduction, convection, and radiation. Give examples of each.
- ii. Students will understand the relationship between force, mass, and motion.
 - a. Explain the difference between distance and displacement.
 - b. Explain velocity. Velocity is how fast something is moving and in which direction.
 - c. What is the difference between average speed and instantaneous speed?

$$\text{Average speed} = \frac{\text{total distance}}{\text{time}} \quad \text{Instantaneous speed} = \frac{d}{t}$$
 - d. What is the difference between acceleration and force?

$$a = \frac{v_f - v_i}{t} \quad F = ma$$

- b. Complete the following phase change diagram.



- iii. Students will understand relationships among force, mass, and motion.
 - a. Explain the difference between distance and displacement.
 - b. Explain velocity. Velocity is how fast something is moving and in which direction.
 - c. What is the difference between average speed and instantaneous speed?

$$\text{Average speed} = \frac{\text{total distance}}{\text{time}} \quad \text{Instantaneous speed} = \frac{d}{t}$$
 - d. What is the difference between acceleration and force?

$$a = \frac{v_f - v_i}{t} \quad F = ma$$

$$v = \frac{d}{t}$$

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Table of Contents Physical Science Eoct Study Guide Energy Transformations

1. Understanding the eBook Physical Science Eoct Study Guide Energy Transformations
 - The Rise of Digital Reading Physical Science Eoct Study Guide Energy Transformations
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Eoct Study Guide Energy Transformations
 - 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 Study Guide Energy Transformations
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Eoct Study Guide Energy Transformations
 - Personalized Recommendations
 - Physical Science Eoct Study Guide Energy Transformations User Reviews and Ratings
 - Physical Science Eoct Study Guide Energy Transformations and Bestseller Lists
5. Accessing Physical Science Eoct Study Guide Energy Transformations Free and Paid eBooks
 - Physical Science Eoct Study Guide Energy Transformations Public Domain eBooks
 - Physical Science Eoct Study Guide Energy Transformations eBook Subscription Services
 - Physical Science Eoct Study Guide Energy Transformations Budget-Friendly Options
6. Navigating Physical Science Eoct Study Guide Energy Transformations eBook Formats

- ePub, PDF, MOBI, and More
- Physical Science Eoct Study Guide Energy Transformations Compatibility with Devices
- Physical Science Eoct Study Guide Energy Transformations Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Eoct Study Guide Energy Transformations
 - Highlighting and Note-Taking Physical Science Eoct Study Guide Energy Transformations
 - Interactive Elements Physical Science Eoct Study Guide Energy Transformations
- 8. Staying Engaged with Physical Science Eoct Study Guide Energy Transformations
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Eoct Study Guide Energy Transformations
- 9. Balancing eBooks and Physical Books Physical Science Eoct Study Guide Energy Transformations
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Eoct Study Guide Energy Transformations
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Eoct Study Guide Energy Transformations
 - Setting Reading Goals Physical Science Eoct Study Guide Energy Transformations
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Eoct Study Guide Energy Transformations
 - Fact-Checking eBook Content of Physical Science Eoct Study Guide Energy Transformations
 - 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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