

Physical Science EOCT Study Guide – Domain 3

Physical Energy, Force, and Motion

Standards: PS.3-7 and 8

1. 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?

$$Q = mc\Delta T$$

$$\Delta T = T_2 - T_1$$
 - 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 mmolten 10°C to 25°C.

$$Q = mc\Delta T$$

$$Q = (0.5)(4186)(25 - 20)$$

$$Q = 10465 \text{ J}$$
 - f. Explain conduction, convection, and radiation. Give examples of each.
 Conduction is the transfer of heat through direct contact. Convection is the transfer of heat through the movement of a fluid. Radiation is the transfer of heat through electromagnetic waves.

2. Explain the following phase change diagrams.



3. Students will determine relationships among force, mass and motion.
 - a. Explain the difference between distance and displacement.
 Distance is the total length of the path traveled. Displacement is the change in position from the starting point to the ending point.
 - b. What is the difference between average speed and instantaneous speed?
 Average speed is the total distance divided by the total time. Instantaneous speed is the speed at a particular moment in time.
 - c. What is the formula for average speed?

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

Physical Science Eoct Study Guide Energy Transformations

Jessica J Manson



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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
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 - ePub, PDF, MOBI, and More
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 - 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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