

# Physical Science EOC Study Guide – Chapter 3

## Physical Energy, Force, and Motion

Standards: 3.1-3.10

1. Students will analyze scientific situations and show an energy transfer in systems.
- Define potential energy (gravitational and elastic) and Kinetic Energy of translational motion ( $\frac{1}{2}mv^2$ ) and rotational motion ( $\frac{1}{2}I\omega^2$ ).
  - Define heat. Transferred energy from objects. Heat conducted by air in a house. Energy for a car engine.
  - Define specific heat. The amount of energy needed to raise the temperature of 1 kg of a substance by 1°C.
  - Show how to measure the amount of heat change in a system using  $Q = mc\Delta T$  and  $Q = I\alpha\Delta T$ .
  - A sample has a mass of 2.0 kg and specific heat of 1.00 J/kg°C. Find the change in the heat as it warms from 10°C to 20°C.  
 $Q = mc\Delta T$        $Q = (2.0)(1.00)(20 - 10)$        $Q = 20(10)$        $Q = 200 \text{ J}$
  - Explain, including units, how heat and radiation are transferred. Heat is transferred by conduction, convection, and radiation. Radiation is the transfer of energy through electromagnetic waves. Heat is transferred by conduction, convection, and radiation.

2. Explain the following phase change diagrams.



3. Students will determine relationships among force, mass and motion.
- Explain the difference between distance and displacement.  
 Distance is a scalar and displacement is a vector.
  - Define velocity. Speed, which you measure, is a scalar and velocity, which includes direction, is a vector.  
 What is the difference between average speed and instantaneous speed?  
 $\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}}$        $\text{Instantaneous Speed} = \frac{d}{dt}$
  - What is the difference between average speed and instantaneous speed?  
 $v = \frac{d}{t}$

# Physical Science Eoct Study Guide Energy Transformations

**D Keegan**



**Physical Science Eoct Study Guide Energy Transformations:**

The book delves into Physical Science Eoct Study Guide Energy Transformations. Physical Science Eoct Study Guide Energy Transformations is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Eoct Study Guide Energy Transformations, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Physical Science Eoct Study Guide Energy Transformations
    - Chapter 2: Essential Elements of Physical Science Eoct Study Guide Energy Transformations
    - Chapter 3: Physical Science Eoct Study Guide Energy Transformations in Everyday Life
    - Chapter 4: Physical Science Eoct Study Guide Energy Transformations in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, this book will examine the practical applications of Physical Science Eoct Study Guide Energy Transformations in daily life. The third chapter will showcase real-world examples of how Physical Science Eoct Study Guide Energy Transformations can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Physical Science Eoct Study Guide Energy Transformations in specific contexts. The fourth chapter will explore how Physical Science Eoct Study Guide Energy Transformations is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Physical Science Eoct Study Guide Energy Transformations. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Eoct Study Guide Energy Transformations.

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