

# Physical Science EOCT Study Guide – Domain 3

## Physical Energy, Force, and Motion

### Standards: PS.3-7 and 8

- i. Students will analyze matter, materials 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.
 

Conduction is a transfer of energy by contact. Example: a metal spoon in a pot of soup.

Convection is a transfer of energy by movement of a fluid. Example: a pot of soup.

- ii. Explain the following phase change diagram.



- iii. Students will determine relationships among force, mass and motion.
  - a. Explain the difference between distance and displacement.
 

Distance is the total path length. Displacement is the change in position.
  - b. What is the difference between average speed and instantaneous speed?
 

Average speed is total distance divided by total time. Instantaneous speed is speed at a particular moment.
  - c. What is the formula for average speed?
 
$$v = \frac{d}{t}$$

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

# Physical Science Eoct Study Guide Energy Transformations

**Ying-Ying Zheng**



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

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Physical Science Eoct Study Guide Energy Transformations**

In a world inundated with monitors and the cacophony of instant transmission, the profound power and emotional resonance of verbal art often disappear in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the musical pages of **Physical Science Eoct Study Guide Energy Transformations**, a fascinating work of literary splendor that pulses with natural thoughts, lies an wonderful trip waiting to be embarked upon. Penned with a virtuoso wordsmith, this enchanting opus books readers on a mental odyssey, softly exposing the latent possible and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their charming writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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