

# 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 1) warmed from 10°C to 20°C.
 
$$Q = mc\Delta T \quad 20 = 20 - 10 = 10 \quad 5000 \text{ J and } 10$$
  - f. Explain conduction, convection and radiation. Give examples of each.
 Conduction is a transfer of energy by contact. Convection is a transfer of energy by movement of a fluid. Radiation is a transfer of energy by electromagnetic waves.

- ii. Explain the following phase change diagrams.



- 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 time.
  - c. What is the difference between acceleration and velocity?
 Velocity is speed in a given direction. Acceleration is the change in velocity over time.

$$v = d/t$$

# Physical Science Eoct Study Guide Energy Transformations

**SA Dillow**



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