

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?

$$Q = mc\Delta T \quad \Delta T = T_2 - T_1$$
 - 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 30°C.

$$Q = mc\Delta T \quad 200 \text{ kg} \times 4186 \text{ J/kg°C} \times 20^\circ\text{C} = 8372000 \text{ J}$$
 - f. Explain conduction, convection, and radiation. Give examples of each.
 Conduction is a transfer of energy by contact. Convection is the movement of heat by the movement of a fluid. Radiation is the transfer of energy by 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 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 the speed at a particular moment.
 - c. What is the formula for average speed?

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

Physical Science Eoct Study Guide Energy Transformations

Ensheng Dong



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