

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 relate to the change of temperature.
 - 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 has a mass of 25.0 kg and specific heat of 1.00 J/kg°C. Find the change in heat energy of the block as it warms from 15°C to 25°C.

$$Q = mc\Delta T$$

$$250 \text{ kg} \times 1.00 \text{ J/kg}^\circ\text{C} \times 10^\circ\text{C} = 2500 \text{ J}$$
 - f. Explain conduction, convection, and radiation. Give examples of each.
 - Conduction: heat transfer by contact. Example: a metal spoon in a pot of soup.
 - Convection: heat transfer by movement of a fluid. Example: a pot of soup being heated.
 - Radiation: heat transfer by electromagnetic waves. Example: heat from the sun.

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 straight line from start to end.
 - 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 formula for average speed?

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

Physical Science Eoct Study Guide Energy Transformations

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