

Physical Science EOCT Study Guide – Domain 3

Physical Energy, Force, and Motion

Standards: PS.3-7 and 8

- i. Students will analyze transformations 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.
- ii. Students will describe the relationship among force, mass, and motion.
 - a. Explain the difference between distance and displacement.
 - b. Explain velocity. Velocity is how fast something is moving and in which direction.
 - c. What is the difference between average speed and instantaneous speed?

$$\text{Average speed} = \frac{\text{total distance}}{\text{time}} \quad \text{Instantaneous speed} = \frac{d}{t}$$
 - d. What is the difference between acceleration and force?

$$a = \frac{v_f - v_i}{t} \quad F = ma$$

- b. Complete the following phase change diagram.



- iii. Students will determine relationships among force, mass, and motion.
 - a. Explain the difference between distance and displacement.
 - b. Explain velocity. Velocity is how fast something is moving and in which direction.
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$$\text{Average speed} = \frac{\text{total distance}}{\text{time}} \quad \text{Instantaneous speed} = \frac{d}{t}$$
 - d. What is the difference between acceleration and force?

$$a = \frac{v_f - v_i}{t} \quad F = ma$$

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

Physical Science Eoct Study Guide Energy Transformations

Wolfgang Guggemos



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