

Unit 2 Test Review

- explain the differences between substances and mixtures.
- classify mixtures as homogeneous or heterogeneous.
- identify the chemical symbols of common elements.
- explain the difference between an element and a compound by their symbols or formulas.
- determine the number of atoms and name of each element in a compound.

- explain the difference between physical and chemical properties of matter.
- list examples of physical properties.
- list examples of chemical properties.
- classify properties as chemical properties or physical properties.
- explain the difference between physical and chemical changes in matter.
- classify changes as physical changes or chemical changes.

- explain the difference between kinetic and potential energy.
- state the law of conservation of matter and energy.
- define heat.
- define work.

- read requested information from a phase diagram.

Be able to use the heat equations:

$$\Delta E = m(\Delta t) C_p$$

$$\Delta E = m H_f$$

$$\Delta E = m H_v$$

Substance 1

Substance 2

$$m(t_f - t_i)C_p = m(t_i - t_f)C_p$$