

Name _____ Class _____ Date _____

Skills Worksheet

Concept Review**Section: Matter and Energy**

1. Identify each of the following as a gas, liquid, solid, or plasma.

a. The particles are closely packed together, but they can still slide past each other.

b. The particles are in a constant state of motion and rarely stick together.

c. The particles are locked in fixed positions.

d. The particles are broken apart.

2. Select the answer that best completes each statement describing the energy transfers taking place as water changes state from solid to liquid, from liquid to gas, and from gas back to liquid.

a. Energy must be added/released (choose one) to separate the water molecules as ice melts.

b. The fastest/slowest (choose one) moving molecules break away from the surface of liquid water to form water vapor.

c. The process described in (b) is called _____.

d. During the above process, energy is released/absorbed (choose one).

e. Water molecules speed up/slow down (choose one) as water vapor returns to the liquid water state.

f. The process described in (e) is called _____.

g. Energy is released/absorbed (choose one) during the above process.

3. Apply the kinetic theory to describe the motion of particles in a homogeneous mixture of sugar and water as it is boiled.

4. Explain how mass and energy are conserved when water evaporates.

Concept Review Section Energy Of State Changes

Ralph Thomas Myers



Concept Review Section Energy Of State Changes:

Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change **Physical Review**, 1904 Vols for 1903 include Proceedings of the American Physical Society **Energy Research Abstracts**, 1989 Technology Review, 1903 *Harcourt Science: Physical science, [grade] 5, Units E and F, teacher's ed*, 2000 *Merrill Chemistry* Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Holt Chemistry** Ralph Thomas Myers, 2004 Focus on physical science Charles H. Heimler, 1989 *Holt Chemistry* Holt Rinehart & Winston, 2003-01-24 *Energy, Its Forms and Changes* Paul Franz Brandwein, Robert Stollberg, Raymond Will Burnett, 1968 *Scientific and Technical Aerospace Reports*, 1992 **Journal of the American Chemical Society** American Chemical Society, 1926 **Engineering**, 1903 Prentice Hall Chemistry, 2000 General Electric Review General Electric Company, 1913 *Illustrations of the Methods of Reasoning* Daniel Sommer Robinson, 1927 **Concepts in Science** Paul Franz Brandwein, 1966 **Biological Science, an Ecological Approach** Biological Sciences Curriculum Study, 1992 A collection of copy masters designed to supplement and extend the test material in a variety of ways Each item is keyed to the most closely related chapter *The Electrical Review*, 1874 Human Resource Planning, 1999

Decoding **Concept Review Section Energy Of State Changes**: Revealing the Captivating Potential of Verbal Expression

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