

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

**Eldon D. Enger, Bradley Fraser Smith**



## 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* *Transition Towards Energy Efficient Machine Tools* André Zein, 2012-12-16 Energy efficiency represents a cost effective and immediate strategy of a sustainable development Due to substantial environmental and economic implications a strong emphasis is put on the electrical energy requirements of machine tools for metalworking processes The improvement of energy efficiency is however confronted with diverse barriers which sustain an energy efficiency gap of unexploited potential The deficiencies lie in the lack of information about the actual energy requirements of machine tools a minimum energy reference to quantify improvement potential and the possible actions to improve the energy demand Therefore a comprehensive concept for energy performance management of machine tools is developed which guides the transition towards energy efficient machine tools It is structured in four innovative concept modules which are embedded into step by step workflow models The capability of the performance management concept is demonstrated in an automotive manufacturing environment The target audience primarily comprises researchers and practitioners challenged to enhance energy efficiency in manufacturing The book may also be beneficial for graduate students who want to specialize in this field *Physical Review* ,1904 Vols for 1903 include Proceedings of the American Physical Society **Energy Research Abstracts** ,1989 **Technology Review** ,1903 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 **Engineering** ,1903 General Electric Review General Electric Company, 1913 **The Electrical Review** ,1874 **Concepts in Science** Paul Franz Brandwein, 1966 New York Review of the Telegraph and Telephone and Electrical Journal ,1904 *Prentice Hall Chemistry* ,2000 *The Modern Review* Ramananda Chatterjee, 1921 Includes section Reviews and notices of books **Science Abstracts** ,1950 CRC Critical Reviews in Solid State Sciences Chemical Rubber Company, 1971 Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.), 2001 **Environmental Science** Eldon D. Enger, Bradley Fraser Smith, 2002

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