

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 Matter And Energy

**James Weir**



## Concept Review Section Matter And Energy:

**Ebook: Chemistry: The Molecular Nature of Matter and Change** Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change     *Concepts in Biology' 2007 Ed. 2007 Edition* ,     *Ecology: Teacher's ed* , 2005

*BSCS Biology* , 2002 This program encourages you to investigate how organisms and their behaviors are shaped by their environments You will ask questions about what happens as organisms and their environments interact You will be introduced to the big pictures showing how different local environments fit together to form patterns of life on Earth

Foreword     Physical Review , 1926 Vols for 1903 include Proceedings of the American Physical Society     *Holt Chemistry* Ralph Thomas Myers, 2004     Holt Chemistry Holt Rinehart & Winston, 2003-01-24     **The Electrical Review** , 1926

**The Literary Guide and Rationalist Review** , 1925     *Harcourt Science: Physical science, [grade] 3, units E and F, teacher's ed* , 2000     **New York Review of the Telegraph and Telephone and Electrical Journal** , 1913     **Matter and**

**Energy** , 2005     *The School Review* , 1903     **London Forum (incorporating "The Occult Review")** , 1910     Energy Research Abstracts , 1984     Electricity and Magnetism , 2005     **Concepts and Challenges in Science New York**

**Proficiency Review Book** Globe Fearon, 2000-11     **The Energy System of Matter** James Weir, 1912     **Book Reviews**

, 1899     **Physics** Art Hobson, 2007 For a one semester course in liberal arts physics Hobson has four unifying themes How do we know the significance of post Newtonian physics modern physics energy and the social context of physics These themes become evident in the writing and pedagogy throughout the fourth edition

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