

## ANSWERS – THE STATES OF MATTER

### WORKSHEET

1. (a) condensation (b) sublimation (c) freezing (d) sublimation (e) melting  
(f) sublimation (g) sublimation
2. (a) **SOLIDS MELT WHEN HEATED.** The heat causes the particles to move faster and further apart, breaking the particle attractions. The substance then changes from the solid to the liquid state.  
  
(b) **CHANGES OF STATE ARE PHYSICAL CHANGES** – The particles in the substance simply spread apart or move closer together. No new particles are created.  
  
(c) **GASES DIFFUSE (SPREAD OUT) READILY** – gas particles move very quickly because the attractive forces are negligible. Thus they are able to diffuse (spread out) readily.  
  
(d) **YOUR SKIN FEELS COOL WHEN A LIQUID EVAPORATES FROM IT** – The particles in the liquid absorb heat energy from your skin when they evaporate into the gaseous state. Thus your skin feels cool.  
  
(e) **THE DENSITIES OF GASES ARE MUCH LOWER THAN THOSE OF LIQUIDS AND SOLIDS** – Gases are less dense because their particles are spaced much farther apart. Therefore, there are less particles (less mass) per unit volume.  
  
(f) **GASES ARE MORE COMPRESSIBLE THAN LIQUIDS** – Gases are more compressible than liquids because the spaces between the particles are much larger.

### TEXTBOOK

Pg 423

4. (a) when a metal is heated, the molecules gain kinetic energy, vibrational motion increases, and the molecules move further apart. When it is cooled, the reverse happens.  
  
(b) Gases have no fixed volume because they have enough kinetic energy to be relatively unaffected by gravity. Instead, their volume is affected by the size of their container.  
  
(c) Molecules in a gas are spaced farther apart than are molecules in a liquid.
5. Since molecules in gases are little affected by attractions to other molecules, they move much more randomly than molecules in liquids or solids.
6. Molecules in gases have vibrational, rotational, and translational motion.
7. Adding heat increases the kinetic energy of the molecules in a liquid, which increases the vibrational and rotational motion of the molecules, resulting in an increase in volume. With enough energy, they can break the intermolecular attractions and become a gas.

# States Of Matter And The Kinetic Theory Michigan Answers

**Yi-Tong Ma**



## **States Of Matter And The Kinetic Theory Michigan Answers:**

## Unveiling the Energy of Verbal Art: An Psychological Sojourn through **States Of Matter And The Kinetic Theory Michigan Answers**

In some sort of inundated with displays and the cacophony of quick conversation, the profound energy and psychological resonance of verbal artistry usually diminish into obscurity, eclipsed by the regular assault of sound and distractions. However, situated within the musical pages of **States Of Matter And The Kinetic Theory Michigan Answers**, a captivating work of literary splendor that impulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this exciting opus manuals visitors on a mental odyssey, gently revealing the latent possible and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect its interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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