**Changes Of State** (p. 84 – 88)

**I. Energy & Changes Of State**

**1. When a change of state of matter occurs, what changes and does not change?**

Changes : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Does Not Change : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Define the term heat.**

Heat –

**3. Match the following terms with the correct definitions.**

1. \_\_\_\_\_ Boiling Point A. Temperature at which a gas becomes a liquid.

2. \_\_\_\_\_ Condensation Point B. Temperature at which a solid becomes a liquid.

3. \_\_\_\_\_ Freezing Point C. Temperature at which a liquid becomes a gas.

4. \_\_\_\_\_ Melting Point D. Temperature at which a liquid becomes a solid.

**4. What is the freezing point and boiling point of water?**

**Freezing** = \_\_\_\_\_\_\_\_˚C = \_\_\_\_\_\_\_\_˚F **Boiling** = \_\_\_\_\_\_\_\_˚C = \_\_\_\_\_\_\_\_˚F

**5. List two types of phase changes that require energy to change states.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** **List two types of phase changes that releases energy to change states.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** **Match the following phase changes with the correct definitions.**

1. \_\_\_\_\_ Condensation A. Phase change from a solid to a gas.

2. \_\_\_\_\_ Deposition B. Phase change from a liquid to a gas.

3. \_\_\_\_\_ Evaporation C. Phase change from a solid to a liquid.

4. \_\_\_\_\_ Freezing D. Phase change from a liquid to a solid.

5. \_\_\_\_\_ Melting E. Phase change from a gas to a solid.

6. \_\_\_\_\_ Sublimation F. Phase change from a gas to a liquid.

**8. During a phase change, the temperature does not change.**

Circle One : True False

**II. Conservation Of Mass & Energy**

**1. Mass is conserved for all physical and chemical changes.**

Circle One : True False

**2. What are the two fundamental laws of physical science?**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Define the Law Of Conservation Of Mass.**

Law Of Conservation Of Mass –

**4. List the reactants and products of burning a match.**

Reactants = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Products = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. Define the Law Of Conservation Of Energy.**

Law Of Conservation Of Energy –

**6. How does starting a lawn mower NOT violate the Law Of Conservation Of Energy?**

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