**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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