

# 5 2 review and reinforcement answers

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### 5.2 Review and Reinforcement Answers

#### Question 1:

**Explain the different types of physical changes that can occur in a substance.**

#### **Answer:**

Physical changes involve changes in the form or appearance of a substance without altering its chemical composition. These changes are reversible. Types of physical changes include:

- **Melting:** Solid to liquid
- **Freezing:** Liquid to solid
- **Vaporization:** Liquid to gas
- **Condensation:** Gas to liquid
- **Sublimation:** Solid to gas
- **Deposition:** Gas to solid

#### Question 2:

**Describe the relationship between temperature and the rate of a chemical reaction.**

#### **Answer:**

**According to the Arrhenius equation, the rate of a chemical reaction increases exponentially with temperature.** As temperature increases, the average kinetic

energy of the reactant molecules increases, resulting in more collisions and a higher probability of successful reactions.

**Question 3:**

**Explain how a catalyst affects the rate of a chemical reaction.**

**Answer:**

A catalyst is a substance that speeds up a chemical reaction without being consumed in the process. Catalysts participate in the reaction but do not appear in the final products. They provide an alternative pathway for the reaction to occur, lowering the activation energy and increasing the rate of the reaction.

**Question 4:**

**Describe the characteristics of a chemical equation that is balanced.**

**Answer:**

A balanced chemical equation shows the chemical formulas of the reactants and products, with the number of atoms of each element being equal on both sides of the equation. This ensures that the law of conservation of mass is obeyed, meaning that the total mass of the reactants equals the total mass of the products.

**Question 5:**

**Explain the difference between a chemical and physical property.**

**Answer:**

Chemical properties describe how a substance reacts with other substances, while physical properties describe its observable characteristics without changing its chemical composition. Chemical properties include flammability, reactivity, and toxicity. Physical properties include color, density, and melting point.



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