

TEST 3 STUDY GUIDE

<i>Topic</i>	<i>Text Reference</i>
CHAPTER 7	
<ul style="list-style-type: none"> • Know what a chemical reaction represents • Identify the evidences for a chemical reaction • Relate chemical equations to word equations • Identify reactants and products in a chemical equation • Balance chemical equations • Classify chemical equations into one of 5 types • Know the characteristics of each type of reaction • Distinguish between oxidation and reduction reactions • Identify oxidized and reduced substances in a redox reaction • Identify oxidation and reduction reactions in biological systems • Understand the concept of mole and Avogadro's number in chemistry • Convert moles of a substance to number of particles and vice versa • Calculate the number of moles of an element in a compound from its chemical formula • Calculate molar mass of a compound from its atomic masses • Convert mass of a substance to moles and vice versa • Determine the molar ratios of reactants and products in a balanced equation • Calculate the moles of a substance from moles of another in a chemical reaction • Calculate the mass of a substance from moles of another in a chemical reaction • Calculate the mass of a substance from mass of another in a chemical reaction • Determine the limiting reactant from given masses of reactants in a chemical reaction • Calculate the theoretical and percent yield in a chemical reaction • Know the role of energy and heat in a chemical reaction • Identify activation energy and enthalpy of reaction from energy diagram • Distinguish between endothermic and exothermic reactions • Calculate heat of reaction from enthalpy values given for a chemical reaction 	<p>7.1</p> <p>Notes</p> <p>7.1</p> <p>7.1</p> <p>7.1</p> <p>7.1</p> <p>7.2</p> <p>7.2</p> <p>7.3</p> <p>7.3</p> <p>7.3</p> <p>7.4</p> <p>7.4</p> <p>7.4</p> <p>7.5</p> <p>7.5</p> <p>7.6</p> <p>7.6</p> <p>7.8</p> <p>7.8</p> <p>7.9</p> <p>7.9</p> <p>7.10</p> <p>7.10</p> <p>7.10</p> <p>7.10</p>