

Unit 8 Overview
Pacing: 4 Instructional Weeks
Report Period 3: Weeks 7-9
Report Period 4: Week 1

The Balanced Chemical Equation Also Tells Us The Quantities Of Reactants to Use

Key Concepts/Overarching Questions

KEY CONCEPT	OVERARCHING QUESTIONS
Key 1: Balanced chemical equations are required to determine the quantities of chemicals involved in a reaction.	<ol style="list-style-type: none"> 1. What does it mean for a reaction to be balanced? 2. How can we use what we know about particles to determine what happens during a reaction? 3. What is the relationship between reactants and products during a chemical reaction?
Key 2: The maximum reaction is achieved when the reactants are combined in the stoichiometric ratio, from the balanced equation.	<ol style="list-style-type: none"> 4. What evidence indicates that a reaction is complete? 5. What would you have to consider to make more product once a reaction is complete?
Key 3: For a chemical reaction to happen, the molecules must come in contact. A reaction will happen faster when more molecules come in contact within a given time.	<ol style="list-style-type: none"> 6. How can we increase the speed of a reaction?