



4.2.2 Study: Chemical Reactions

Study Sheet

Chemistry Core (S873348)

Name: _____

Date: _____

Writing Chemical Equations

1. What is the purpose of writing a word equation for a chemical reaction?

2. Fill in the table with a description of what each symbol means in a chemical reaction

(aq)	
(g)	
(s)	
(l)	
→	
+	
↑	
↓	

3. What are the seven diatomic elements? Why is it important to remember these?

Balancing Chemical Equations

1. What is the law of conservation of mass?

2. How does this affect chemical equations?

where?

3. The correct placement of a coefficient in a chemical equation is _____ of the element or molecule.

4. Hydrogen gas and oxygen gas can react to form water. In each of the examples except for the last one, the reaction is written incorrectly. Identify what is wrong with each example and fill in the table.



Types of Chemical Equations

1. What is the difference between molecular, complete ionics and net ionic equations?

2. When is it inappropriate to use ionic equations to describe a reaction?

3. What are spectator ions?