

Chapter 9: Section 1: Proofs and Equations

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Problems/Pedagogy

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What algebraic equations for the following word equations:

1. Hydrogen and bromine gases react to yield hydrogen bromide:



2. Hydrochloric acid reacts with oxygen to yield hydrogen chloride:



3. Challenge: Write the word equation and the algebraic equation for the following reaction: react: nitric acid, sodiumhydroxide solution yields: sodium nitrate, water



What algebraic equations for each of the following reactions:

4. An iron react with chlorine to form iron(III) chloride: $\text{iron}(s) + \text{chlorine}(g) \rightarrow \text{iron(III) chloride}(s)$



5. Hydrochloric acid reacts with iron(III) oxide, producing iron(III) chloride and water:



6. Challenge: A hydrocarbon reacts to produce carbon dioxide and water. Write the word equation and a balanced chemical equation.



Chemistry Ch 9 Practice Problems Answer Key

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