

California

Correlations to SEPUP's *Investigating Alternative Energy: Hydrogen & Fuel Cells*

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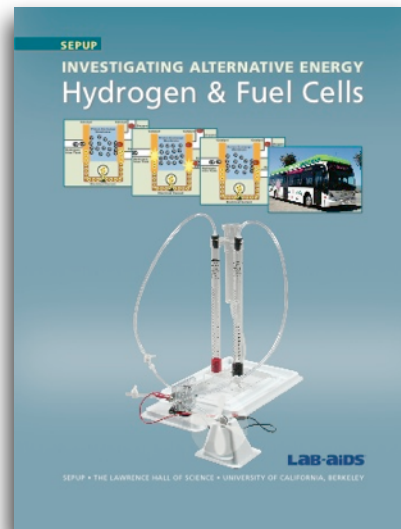
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Chemistry

Conservation of Matter and Stoichiometry

3. The conservation of atoms in chemical reactions leads to the principle of conservation of matter and the ability to calculate the mass of products and reactants. As a basis for understanding this concept:

Performance Indicator Descriptor	Location in Module	Where Assessed
a. Students know how to describe chemical reactions by writing balanced equations.	Activities 2, 3, and 4	Activity 2, Analysis #1b; Activity 3, Pre-Lab #1a; Activity 4, Procedure Part A
g. * Students know how to identify reactions that involve oxidation and reduction and how to balance oxidation-reduction reactions.	Activity 4	Activity 3, Pre-Lab #1a; Activity 4, Procedure Parts A and B

Reaction Rates

8. Chemical reaction rates depend on factors that influence the frequency of collision of reactant molecules. As a basis for understanding this concept

Performance Indicator Descriptor	Location in Module	Where Assessed
c. Students know the role a catalyst plays in increasing the reaction rate.	Activity 4	Procedure Part A