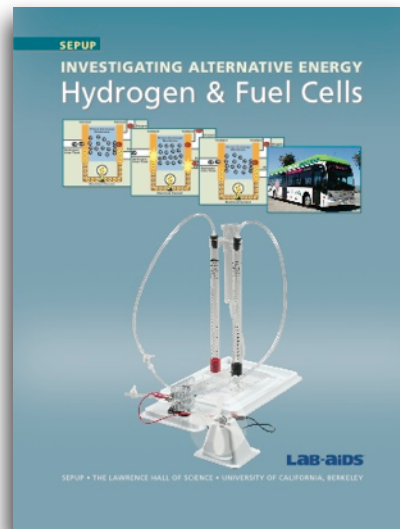


Connecticut

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

Investigating Alternative Energy: Hydrogen & Fuel Cells was developed by SEPUP at The Lawrence Hall of Science, and is published by, and available exclusively from, LAB-AIDS, Inc. This document is intended to show selected locations in the *Hydrogen & Fuel Cells* module that support the Connecticut State Department of Education standards for high school science. It is not an exhaustive list; other locations may exist that are not listed here.



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Connecticut Chemistry

Conservation of Matter and Stoichiometry

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.

Performance Indicator Descriptor	Location in Module	Where Assessed
Chemical reactions can be described by writing balanced equations.	Activities 2, 3, and 4	Activity 2, Analysis #1b; Activity 3, Pre-Lab #1a; Activity 4, Procedure Part A
The mass of a molecular substance can be converted to moles, number of particles, or volume of gas at standard temperature and pressure.	Activities 2 and 5	Activity 2, Calculations 1-3; Activity 5, Procedure and Student Sheet 5.1

Reaction Rates

Chemical reaction rates depend on factors that influence the frequency of collision of reactant molecules.

Performance Indicator Descriptor	Location in Module	Where Assessed
Catalysts play a role in increasing the reaction rate by changing the activation energy in a chemical reaction.	Activity 4	Procedure Part A