

ScienceSchoolHouse Discover! Science Library

**U.S. National Research Council -
National Science Education Content
Standards GRADES 9-12**

	ScienceSchoolHouse Discover! Science Library														
	THE FULL LIBRARY	Geology			Oceans			Weather-Climate			Astronomy			Life/Environment	
	Dynamic Earth	Minerals, Rocks, and Resources	Carving the Earth	Earth's Oceans	Oceans in Motion	Earth's Water Cycle	Weather Fundamentals	Extreme Weather	Weather Forecasting/Climate Change	Astronomy and the Universe	The Inner Solar System	The Outer Solar System	Life Sciences	The Environment	Physical/Chemical
A: Science as Inquiry															
Abilities necessary to do scientific inquiry	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Understandings about scientific inquiry	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
B: Physical Science															
Structure of atoms	●	●	●							●					●
Structure and properties of matter	●		●	●		●	●	●	●	●	●	●			●
Chemical reactions	●		●	●		●	●	●	●	●	●	●			●
Motions and forces	●	●		●	●	●	●	●	●	●	●	●			●
Conservation of energy and increase in disorder	●	●				●	●	●	●	●	●	●		●	●
Interactions of energy and matter	●	●		●	●	●	●	●	●	●	●	●		●	●
C: Life Science															
The cell	●												●		
Molecular basis of heredity	●												●		
Biological evolution	●	●											●		
Interdependence of organisms	●	●	●			●	●						●		
Matter, energy, and organiz. in living systems	●					●			●				●	●	
Behavior of organisms	●												●		
D: Earth and Space Science															
Energy in the earth system	●	●	●	●	●	●	●	●	●	●	●	●		●	
Geochemical cycles	●	●	●		●	●	●	●	●		●	●		●	
Origin and evolution of the earth system	●	●		●					●	●	●			●	
Origin and evolution of the universe	●	●								●	●				
E: Science and Technology															
Abilities of technological design	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Understandings about science and technology	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
F: Personal and Social Perspectives															
Personal health	●												●		
Population growth	●		●										●		●
Natural Resources	●	●		●		●								●	●
Environmental quality	●	●	●	●	●	●	●	●	●					●	●
Science & tech in local-nat.-global challenges	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
G: History and Nature of Science															
Science as a human endeavor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Nature of scientific knowledge	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
History perspectives	●	●					●	●	●	●	●	●		●	●