

Chemistry You Need to Know Michigan Standards

Michigan Standards	1-- Scientists' Tools	2--Antacids	3--Airbags	4--Glow	5--Soap	6--Sports Drinks	7--Hot/cold packs	8--Industry	9-- Forensics	10-- Batteries	11-- Polymers
<b>C1.1 Scientific Inquiry</b>	Introduced in section 1-3 and used at least 1 time per chapter										
<b>C1.2 Scientific Reflection and Social Implications</b>	Chapter themes (medicine, airbags, soap, sports drinks) is used in student text, practice problems and labs to include personal an reflections										
<b>P2.p1 Potential Energy (prerequisite)</b>			Section 3-1				Section 7-3				
<b>C2.1x Chemical Potential Energy</b>							Sections 7-3 through 7-5				
<b>C2.2 Molecules in Motion</b>			Section 3-1				Section 7-2				
<b>C2.2x Molecular Entropy</b>			Section 3-5, 3-7								
<b>C2.3x Breaking Chemical Bonds</b>		Section 2-8									
<b>C2.4x Electron Movement</b>				Section 4-7							
<b>C2.5x Nuclear Stability</b>											
<b>P3.p1 Conservation of Energy (prerequisite)</b>							All sections				
<b>C3.1x Hess's Law</b>							All sections				
<b>P3.p2 Energy Transfer (prerequisite)</b>											
<b>C3.2x Enthalpy</b>					Section 5-2		All sections				

Chemistry You Need to Know Michigan Standards

<b>C3.3 Heating Impacts</b>								Sections 7-1 through 7-3				
<b>C3.3x Bond Energy</b>					Section 5-2			Section 7-4				
<b>C3.4 Endothermic and Exothermic Reactions</b>								All sections	Section 8-4			
<b>C3.4x Enthalpy and Entropy</b>								Sections 7-2 through 7-5				
<b>C3.5x Mass Defect</b>												
<b>P4.p1 Kinetic Molecular Theory (prerequisite)</b>			Section 3-1									
<b>P4.p2 Elements, Compounds, and Mixtures (prerequisite)</b>		Section 2-1										
<b>C4.1x Molecular and Empirical Formulae</b>									Section 9-3			
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<b>C4.2 Nomenclature</b>		Section 2-2 through 2-4										Section 11-1 and 11-2
<b>C4.3 Properties of Substances</b>			Section 3-1 through 3-3									
<b>C4.3x Solids</b>					Section 5-1, 5-5, 5-6							



Chemistry You Need to Know Michigan Standards

<b>C5.3x Equilibrium</b>									All sections		
<b>C5.4x Changes of State</b>								Section 7-2, 7-3			
<b>C5.5 Chemical Bonds — Trends</b>		Section 2-3				Section 5-1					
<b>C5.5x Chemical Bonds</b>						All sections					
<b>C5.6x Reduction/Oxidation Reactions</b>										All sections	
<b>C5.7 Acids and Bases</b>		Section 2-4 through 2-6					Section 6-3				Section 11-2
<b>C5.7x Brønsted-Lowry</b>											
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<b>C5.8 Carbon Chemistry</b>											All sections

The current edition of Chemistry You Need to Know does not cover the following topics in these standards:

Entropy & Gibbs free energy

Brønsted-Lowry

Mass defect

Chemistry You Need to Know Michigan Standards

12--Nuclear
id social
Section 12-1

Chemistry You Need to Know Michigan Standards

12--Nuclear

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12--Nuclear

