



This correlation chart shows how *Lower Elementary Chemistry* is aligned to the National Science Content Standards.

National Science Content Standards	Nomenclatures	Research/Research Cards	States of Matter	Physical Changes	Chemical Changes	Acids and Bases	Reading	Safety First	Measurement Activities
<b>Grades K-4</b>									
<b>4A. Science as Inquiry (SI)</b>									
(4SI1) Abilities necessary to do scientific inquiry	✓	✓	✓	✓	✓	✓	✓		✓
(4SI2) Understandings about scientific inquiry		✓	✓	✓	✓				✓
<b>4B. Physical Science (PS)</b>									
(4PS1) Properties of objects and materials	✓	✓	✓	✓	✓	✓	✓		
<b>4E Science and Technology (EST)</b>									
(4EST1) Abilities of technological design			✓	✓	✓	✓			✓
(4EST2) Understanding about science and technology	✓	✓					✓		✓
<b>4F Science in Personal and Social Perspective (SPSP)</b>									
(4FSPSP1) Personal health								✓	
(4FSPSP3) Types of resources		✓							
(4FSPSP4) Changes in environments		✓							
(4FSPSP5) Science and technology in local challenges		✓							
<b>4G History and Nature of Science</b>									
(4GHNS.1) Science as a human endeavor									
<b>Grades 5-8</b>									
<b>8A Science as Inquiry</b>									
(8ASI1) Abilities necessary to do scientific inquiry	✓	✓	✓	✓	✓	✓	✓		✓
(8ASI2) Understandings about scientific inquiry		✓	✓	✓	✓	✓			✓
<b>8B Physical Science</b>									
(8BPS1) Properties and changes of properties in matter	✓	✓					✓		
<b>8E Science and Technology</b>									
(8EST1) Abilities of technological design			✓	✓	✓	✓			✓
(8EST2) Understanding about science and			✓	✓	✓	✓			✓

technology									
<b>8F Science in Personal and Social Perspective</b>									
(8FSPSP1) Personal health								✓	
<b>National Science Content Standards</b>	<b>Nomenclatures</b>	<b>Research/Research Cards</b>	<b>States of Matter</b>	<b>Physical Changes</b>	<b>Chemical Changes</b>	<b>Acids and Bases</b>	<b>Reading</b>	<b>Safety First</b>	<b>Measurement Activities</b>
<b>8G History and Nature of Science</b>									
(8GHNS.1) Science as a human endeavor		✓							
(8GHNS.2) Nature of science		✓	✓	✓	✓	✓			✓
(8GHNS.3) History of science		✓							
<b>Grades 9-12</b>									
<b>12A Science as Inquiry</b>									
(12ASI1) Abilities necessary to do scientific inquiry	✓	✓	✓	✓	✓	✓	✓		
(12ASI2) Understandings about scientific inquiry	✓	✓	✓	✓	✓	✓	✓		
<b>12B Physical Science</b>									
(12BPS1) Structure of atoms	✓	✓					✓		
(12BPS2) Structure and properties of atoms	✓	✓	✓	✓	✓	✓	✓		
(12BPS3) Chemical reactions			✓	✓	✓	✓	✓		
<b>12C Life Science</b>									
(12CLS5) Matter, energy, and organization in living systems			✓	✓	✓	✓			