



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

National Science Content Standards	Nomenclatures	Pictures of Elements and Stories	Research/ Research Cards	States of Matter	Physical Changes	Chemical Changes	Acids and Bases	Reading	Safety First	Measurement Activities
Grades K-4										
4A.Science as Inquiry (SI)										
(4SI1) Abilities necessary to do scientific inquiry	✓		✓	✓	✓	✓	✓	✓		✓
(4SI2) Understandings about scientific inquiry	✓		✓	✓	✓	✓	✓	✓		✓
4B. Physical Science (PS)										
(4PS1) Properties of objects and materials	✓		✓	✓	✓	✓	✓			
4E Science and Technology (EST)										
(4EST1) Abilities of technological design				✓	✓	✓	✓			✓
(4EST2) Understanding about science and technology	✓		✓					✓		
4F Science in Personal and Social Perspective (SPSP)										
(4FSPSP1) Personal health									✓	
(4FSPSP3) Types of resources			✓					✓		
(4FSPSP4) Changes in environments			✓					✓		
(4FSPSP5) Science and technology in local challenges			✓					✓		
4G History and Nature of Science										
(4GHNS.1)Science as a human endeavor			✓	✓	✓	✓	✓	✓		
Grades 5-8										
8A Science as Inquiry										
(8ASI1) Abilities necessary to do scientific inquiry	✓			✓	✓	✓	✓			✓
(8ASI2) Understandings about scientific inquiry			✓	✓	✓	✓	✓	✓		✓
8B Physical Science										
(8BPS1) Properties and changes of properties in matter	✓	✓	✓	✓	✓	✓	✓			✓
(8BPS2) Motion and forces										
(8BPS3) Transfer of energy				✓	✓	✓				
8C Life Science										

(8CLS1)Structure and function in living systems	✓									
(8CLS3) Regulation and behavior	✓									
National Science Content Standards	Nomenclatures	Pictures of Elements and Stories	Research/ Research Cards	States of Matter	Physical Changes	Chemical Changes	Acids and Bases	Reading	Safety First	Measurement Activities
8E Science and Technology										
(8EST1) Abilities of technological design				✓	✓	✓	✓			✓
(8EST2) Understanding about science and technology				✓	✓	✓	✓			✓
8F Science in Personal and Social Perspective										
(8FSPSP1) Personal health									✓	
8G History and Nature of Science										
(8GHNS.1)Science as a human endeavor			✓					✓		
(8GHNS.2) Nature of science			✓	✓	✓	✓	✓	✓		
(8GHNS.3) History of science			✓					✓		
Grades 9-12										
12A Science as Inquiry										
(12AS11) Abilities necessary to do scientific inquiry	✓		✓	✓	✓	✓	✓	✓		✓
(12AS12) Understandings about scientific inquiry	✓		✓	✓	✓	✓	✓	✓		✓
12B Physical Science										
(12BPS1) Structure of atoms	✓	✓	✓	✓	✓	✓	✓	✓		
(12BPS2) Structure and properties of atoms	✓		✓	✓	✓	✓	✓			
(12BPS3) Chemical reactions	✓		✓	✓	✓	✓	✓	✓		
12C Life Science										
(12CLS5)Matter, energy, and organization in living systems	✓									
12E Science and Technology										
(12EST1) Abilities of technological design				✓	✓	✓	✓			
(12EST2) Understanding about science and technology				✓	✓	✓	✓			
12G History and Nature of Science										
(12GHNS.1)Science as a human endeavor			✓	✓	✓	✓	✓	✓		
(12GHNS.2) Nature of science			✓	✓	✓	✓	✓	✓		
(12GHNS.3) History of science			✓	✓	✓	✓	✓	✓		