

NSES cross-reference chart, grades 9-12

Content Standards	Unit 1 Recipe for a Cyclone					Unit 2 The Life of a Cyclone				Unit 3 Hurricane Hazards				Unit 4 Hurricanes in the Big Apple			
	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	4.4
Unifying Concepts and Processes																	
System, order, and organization		X	X	X	X		X	X	X	X	X	X		X	X	X	X
Evidence, models, and explanation	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X
Constancy, change, and measurement	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X
Evolution and equilibrium				X			X	X	X			X					
Form and function	X		X		X	X	X	X	X	X		X		X	X	X	X
Science as Inquiry																	
Abilities necessary to do scientific inquiry		X		X	X		X	X	X	X	X			X	X	X	X
Understanding about scientific inquiry	X	X	.	X	X	X	X	X	X	.	.	.	X	X	X	X	X
Earth and Space Science																	
Energy in the Earth system	X	X	X	X	X		X	X	X	X		X		X			
Geochemical cycles			X	X													
Origin and evolution of the Earth system			X				X					X		X			
Origin and evolution of the universe																	
Physical Science																	
Structure of atoms																	
Structure and properties of matter			X														
Chemical reactions																	
Motions and forces		X	X	X			X	X	X		X						X
Conservation of energy and increase in disorder			X				X										
Interactions of energy and matter			X	X			X	X	X		X						X
Science and Technology																	
Abilities of technological design	X	.		.	X	.	.		.	.	.	.	.	.	.	.	X
Understandings about science and technology	.	X	X	X	X	X	X	X	X	X	X	.	.	X	X	X	X
Science in Personal and Social Perspectives																	
Personal and community health	X						X					X	X	X	X		
Population growth											X	X	X			X	X
Natural resources														X		X	
Environmental quality														X		X	
Natural and human-induced hazards	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X
Science and technology in local, national, and global challenges	X		X			X	X	X	X	X	X	X		X	X	X	X
History and Nature of Science																	
Science as a human endeavor	X	X	X	X	X	X	.	X	.	X	.	.	.	X	X	X	.
Nature of scientific knowledge	X	X	X	X	X	X	X	X	X	.	X	.	.	X	.	X	X
Historical perspectives	X	X	.	X	X	X	X	X	X	.	X	X	.	X	X	.	.

X = standard is directly addressed . = underlying concept throughout unit