

**Alignment of the Atmospheric Science Literacy Frameworks to the
National Science Education Standards (NSES)
GRADES 9-12**

NSES Elements/ Key Atmospheric Science Concepts	Essential Principle 4 - Weather and Climate			
	FC 4.1	FC 4.2	FC 4.3	FC 4.4
UNIFYING CONCEPTS AND PROCESSES				
Change, Constancy, and Measurement	•	•	•	
EARTH AND SPACE SCIENCE				
Energy in the Earth System	•	•	•	
Origin and Evolution of the Earth System		•		
LIFE SCIENCE				
Behavior of Organisms				•
PHYSICAL SCIENCE				
Structure and Properties of Matter	•			
Chemical Reactions	•	•		
Conservation in Energy and Increase in Disorder			•	
Interactions of Energy and Matter	•	•		
PERSONAL AND SOCIAL PERSPECTIVES				
Natural and Human-Induced Hazards		•		•