

**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 1 - Thin atmosphere sustains life				
	FC 1.1	FC 1.2	FC 1.3	FC 1.4	FC 1.5
UNIFYING CONCEPTS AND PROCESSES					
Change, Constancy, and Measurement	•		•	•	
EARTH AND SPACE SCIENCE					
Energy in the Earth System		•			•
Origin and Evolution of the Earth System				•	•
Geochemical Cycles	•			•	•
LIFE SCIENCE					
Interdependence of Organisms				•	
Matter, Energy and Organization in Living Systems				•	
PHYSICAL SCIENCE					
Structure and Properties of Matter	•			•	
Chemical Reactions	•			•	
Motions and Forces		•			
PERSONAL AND SOCIAL PERSPECTIVES					
Environmental Quality				•	
Natural and Human-Induced Hazards				•	