

**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 5 - System Interactions			
	FC 5.1	FC 5.2	FC 5.3	FC 5.4
UNIFYING CONCEPTS AND PROCESSES				
Systems, Order and Organization	•	•	•	•
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	•		•	
The Cell	•		•	
PHYSICAL SCIENCE				
Structure and Properties of Matter	•		•	
Chemical Reactions	•	•	•	
Motions and Forces	•	•		•
Conservation in Energy and Increase in Disorder	•	•		
PERSONAL AND SOCIAL PERSPECTIVES				
Natural and Human-Induced Hazards		•		•