

**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 2 - Sun's energy drives processes				
	FC 2.1	FC 2.2	FC 2.3	FC 2.4	FC 2.5
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	•	•		•	•
Interactions of Energy and Matter	•	•		•	•
PERSONAL AND SOCIAL PERSPECTIVES					
Environmental Quality				•	•
Natural and Human-Induced Hazards				•	•