

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

<b>NSES Elements/ Key Atmospheric Science Concepts</b>	<b>Essential Principle 3 - Atmospheric Circulation</b>				
	FC 3.1	FC 3.2	FC 3.3	FC 3.4	FC 3.5
<b>UNIFYING CONCEPTS AND PROCESSES</b>					
Systems, Order and Organization		•	•	•	•
Change, Constancy, and Measurement		•	•	•	•
<b>EARTH AND SPACE SCIENCE</b>					
Energy in the Earth System	•	•	•		•
Geochemical Cycles		•		•	
<b>LIFE SCIENCE</b>					
Matter, Energy and Organization in Living Systems		•			
The Cell		•			
<b>PHYSICAL SCIENCE</b>					
Chemical Reactions		•			
Motions and Forces	•	•	•		
Conservation in Energy and Increase in Disorder	•	•		•	•
Interactions of Energy and Matter		•			