

**Food Safety First**  
National Science Education Standards  
High School

3/3/2004

	Bacteria Are Everywhere										Food Handling is a Risky Business									
	Safe Barbecue	The Big Picture	What's Wrong with this Picture	Lab Safety	Find the Bacteria	Bacteria Are Everywhere	The 12 Most Unwanted	Lab Techniques	Don't Cross Me	Science Careers	Lab Safety	Lab Techniques	Fast Food Footwork	Food Safety Challenge	Science of Cooking a Hamburg	Retail and home	The Right Stuff	4 C's	Hand washing	Chill
<b>Unifying Concepts and Processes</b>																				
* Systems, order, and organization				•	•	•		•			•	•				•	•	•	•	
* Evidence, models, and explanation		•		•	•	•	•		•		•			•	•	•	•	•	•	•
* Change, constancy, and measurement		•				•			•					•	•	•	•			
* Evolution and equilibrium						•	•												•	
* Form and function												•		•	•	•				
<b>Science as Inquiry</b>																				
* Abilities necessary to do scientific inquiry					•	•	•						•	•	•	•	•			
* Understandings about scientific inquiry					•	•	•	•	•		•		•	•	•	•	•			•
<b>Physical Science</b>																				
* Conservation of energy and increase in disorder																				
* Interactions of energy and matter													•		•					
<b>Life Science</b>																				
* The cell		•			•														•	
* Molecular basis of heredity																			•	
* Biological Evolution																			•	
* Interdependence of organisms														•				•	•	•
* Matter, energy and organization of living systems														•				•	•	•
* Behavior of organisms					•															
<b>Science and Technology</b>																				
* Abilities of technological design															•	•				
* Understandings about science and technology															•	•				
<b>Science in Personal and Social perspectives</b>																				
* Personal and community health	•	•	•	•	•	•	•		•		•		•	•	•	•	•	•	•	•
* Population growth		•				•								•				•	•	
* Natural resources		•				•								•	•	•	•	•	•	•
* Environmental Quality		•				•	•							•	•	•	•	•	•	•
* Natural and human-induced hazards	•	•	•	•		•	•		•		•		•	•	•	•	•	•	•	•
* Science and technology in local, national and global challenges						•	•			•			•	•	•	•	•	•	•	
<b>History and Nature of Science</b>																				
* Science as a human endeavor		•			•	•				•				•	•	•				
* Nature of science knowledge					•	•	•							•	•	•	•	•	•	
* Historical perspectives						•	•							•						