

Earth Comm: Correlation to the National Science Education Standards

National Science Education Content Standards	EarthComm Modules / Chapters														
	Earth's Dynamic Geosphere			Understanding Your Environment			Earth's Fluid Spheres			Earth's Natural Resources			Earth System Evolution		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
UNIFYING CONCEPTS AND PROCESSES															
System, order and organization	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Evidence, models, and explanation	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Constancy, change, and measurement	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Evolution and equilibrium		•		•	•	•	•	•	•	•	•	•	•	•	•
Form and function					•			•							•
SCIENCE AS INQUIRY															
Identify questions and concepts that guide scientific investigations	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Design and conduct scientific investigations	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Use technology and mathematics to improve investigations	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Formulate and revise scientific explanations and models using logic and evidence	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Communicate and defend a scientific argument	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Understand scientific inquiry	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
EARTH AND SPACE SCIENCE															
Energy in the Earth system	•	•	•		•	•	•	•	•	•	•	•	•	•	•
Geochemical cycles	•	•		•	•	•	•	•	•	•	•	•	•	•	
Origin and evolution of the Earth system	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Origin and evolution of the universe											•		•		
SCIENCE AND TECHNOLOGY															
Identify a problem or design an opportunity	•		•			•					•		•		
Propose designs and choose between alternative solutions	•		•			•					•		•		
Implement a proposed solution	•		•			•					•		•		
Evaluate the solution and its consequences	•		•			•					•		•		
Communicate the problem, process, and solution	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Understand science and technology	•	•	•			•	•	•			•	•	•	•	•
SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES															
Personal and community health	•		•		•	•		•			•	•	•	•	•
Population growth						•					•			•	•
Natural Resources	•					•	•				•	•	•	•	
Environmental quality	•			•	•	•	•				•	•	•	•	
Natural and human-induced hazards	•	•	•		•	•				•	•	•	•	•	
Science and technology in local, national, and global challenges	•	•	•			•	•	•	•	•	•	•		•	
HISTORY AND NATURE OF SCIENCE															
Science as a Human Endeavor	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nature of Scientific Knowledge	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Historical Perspectives		•	•	•			•				•	•		•	•