

# Investigating Earth Systems: Correlation to the National Science Education Standards

Content Standards Grades 5 – 8

	Soil	Rocks and Landforms	Oceans	Climate and Weather	Dynamic Planet	Materials and Minerals	Energy Resources	Water as a Resource	Fossils
<b>UNIFYING CONCEPTS AND PROCESSES</b>									
System, order and organization	•	•	•	•	•	•	•	•	•
Evidence, models, and explanation	•	•	•	•	•	•	•	•	•
Constancy, change, and measurement	•	•	•	•	•	•	•	•	•
Evolution and equilibrium		•	•	•	•			•	•
Form and function									•
<b>SCIENCE AS INQUIRY</b>									
Identify questions that can be answered through scientific investigations	•	•	•	•	•	•	•	•	•
Design and conduct scientific investigations	•	•	•	•	•	•	•	•	•
Use tools and techniques to gather, analyze, and interpret data	•	•	•	•	•	•	•	•	•
Develop descriptions, explanations, predictions and models based on evidence	•	•	•	•	•	•	•	•	•
Think critically and logically to make the relationships between evidence and explanation	•	•	•	•	•	•	•	•	•
Recognize and analyze alternative explanations and predictions	•	•	•	•	•	•	•	•	•
Communicate scientific procedures and explanations	•	•	•	•	•	•	•	•	•
Use mathematics in all aspects of scientific inquiry	•	•	•	•	•	•	•	•	•
Understand scientific inquiry	•	•	•	•	•	•	•	•	•
<b>PHYSICAL SCIENCE</b>									
Properties and Changes of Properties in Matter	•	•	•		•	•	•	•	
Motions and Forces	•		•						
Transfer of Energy		•	•	•	•	•	•		
<b>LIFE SCIENCE</b>									
Populations and Ecosystems			•				•	•	•
Diversity and Adaptation of Organisms			•		•				•
<b>EARTH AND SPACE SCIENCE</b>									
Structure of the Earth system	•	•	•	•	•	•	•	•	•
Earth's History	•	•	•	•	•	•	•	•	•
Earth in the Solar System			•	•	•		•	•	
<b>SCIENCE AND TECHNOLOGY</b>									
Abilities of technological design	•	•	•	•	•	•	•	•	•
Understandings about science and technology		•	•			•	•	•	
<b>SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES</b>									
Personal health	•							•	
Populations, resources, and environment	•					•	•	•	
Natural Hazards		•		•	•	•			
Risks and benefits					•		•		
Science and technology in society	•	•	•	•	•	•	•	•	•
<b>HISTORY AND NATURE OF SCIENCE</b>									
Science as a human endeavor	•	•	•	•	•	•	•	•	•
Nature of science	•	•	•	•	•	•	•	•	•
History of science			•		•				•