



This document is designed to help North Carolina educators teach the Essential Standards (Standard Course of Study). NCDPI staff are continually updating and improving these tools to better serve teachers.

Earth/Environmental
 2009-to-2004 Standards Crosswalk

This document is a general comparison of the current 2004 Science Standard Course of Study and the new 2009 Science Essential Standards. It provides initial insight into sameness and difference between these two sets of standards. This document is not intended to answer all questions about the nuance of the new standards versus the old - in fact, we imagine you will develop questions as you do a close reading of the new standards. Please send the science section of NC DPI any thoughts, feedback, questions and ideas about additional resources that would help you start preparing to teach the Essential Standards. Email Beverly Vance at bvance@dpi.state.nc.us.

Important Note: The current 2004 SCOS will continue to be the operational standards in the 2010-11 and 2011-12 school years as resource materials are developed to support the new Science Essential Standards, professional development is conducted and assessments are designed to align to the new Science Essential Standards. We expect the new Essential Standards to be taught and assessed in schools for the first time in the 2012-13 school year. That said, we are providing Essential Standards resources now and over the next two-years so that schools and teachers can get a head start on internalizing and planning to teach the new standards.

2009 Essential Standards		2004 NC SCOS		Comments
Strand	Objective	Goal	Objective	
	Essential Standard Text of Clarifying objective		Text of objective	
Earth in the Universe	Explain the Earth's role as a body in space. EEn.1.1.1 Explain the Earth's motion through space, including precession, nutation, the barycenter, and its path about the galaxy.	Earth in the Solar System and its	6.02 Analyze planetary motion and the physical laws that explain that motion: <ul style="list-style-type: none"> • Rotation • Revolution • Apparent diurnal motions of the stars, sun and moon 	The remaining bullet in objective 6.02 <ul style="list-style-type: none"> • Effects of the tilt of earth's axis is addressed in EEn.1.1.2 Specific terms have been delineated in the 2009 Essential Standards: precession, nutation and barycenter.

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Strand	Objective	Essential Standard	Goal	Objective	Text of objective	Comments
		Text of Clarifying objective				
	EEn.1.1.2	Explain how the Earth’s rotation and revolution about the Sun affect its shape and is related to seasons and tides.		6.02	Analyze planetary motion and the physical laws that explain that motion: <ul style="list-style-type: none"> • Effects of the tilt of earth’s axis 	Other bullets of 6.02 are addressed in EEn.1.1.1 <ul style="list-style-type: none"> • Rotation • Revolution • Apparent diurnal motions of the stars, sun and moon This is the only bullet of objective 6.02 addressed by EEn.1.1.2.
	EEn.1.1.3	Explain how the sun produces energy which is transferred to the Earth by radiation.				New to 2009 Essential Standards
	EEn.1.1.4	Explain how incoming solar energy makes life possible on Earth.				
Earth Systems, Structures, and Processes	Explain how processes and forces affect the lithosphere.		Lithospheric Materials, Tectonic Processes, and the Human and Environmental Impacts	2.02	Analyze the historical development of the theory of plate tectonics.	
	EEn.2.1.1	Explain how the rock cycle, plate tectonics, volcanoes, and earthquakes impact the lithosphere.		2.03	Investigate and analyze the processes responsible for the rock cycle: <ul style="list-style-type: none"> • Trace the path of elements through the rock cycle • Relate rock formation to plate tectonics • Identify forms of energy that drive the rock cycle 	These are the only bullets of objective 2.03 that address EEn.2.1.1 This objective is now completed prior to the Earth/Environmental course. <ul style="list-style-type: none"> • Analyze the origin, texture and mineral composition of rocks This objective is now addressed in EEn.2.1.3 <ul style="list-style-type: none"> • Analyze the relationship between the rock cycle and processes in the atmosphere

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EEn.2.1.2		Predict the locations of volcanoes, earthquakes, and faults based on information contained in a variety of maps.	Origin and Evolution of the Earth Systems			and hydrosphere
				2.04	Analyze seismic waves including velocity and refraction to: <ul style="list-style-type: none"> Infer Earth’s internal structure Locate earthquake epicenters Measure earthquake magnitude Evaluate the level of seismic activity in North Carolina 	
				3.01	Assess evidence to interpret the order and impact of events in the geologic past: <ul style="list-style-type: none"> Relative and absolute dating techniques Statistical models of radioactive decay Fossil evidence of past life Uniformitarianism Stratigraphic principles Divisions of Geologic Time 	These are the only bullets of objective 3.01 that address EEn.2.1.1. These bullets are addressed prior to the Earth/Environmental course. <ul style="list-style-type: none"> Origin of the earth system Origin of life
				3.02	Evaluate the geologic history of North Carolina.	
				4.03	Analyze the mechanisms that produce the various types of shorelines and their resultant landforms: <ul style="list-style-type: none"> Nature of underlying geology Long-and short-term sea-level history 	These are the only bullets of objective 4.03 addressed by EEn.2.1.1. This bullet is addressed in EEn.2.1.3 <ul style="list-style-type: none"> Formation and breaking of waves on adjacent topography This bullet is addressed in EEn.2.2.1 <ul style="list-style-type: none"> Human impact
		Lithospheric Materials, Tectonic	2.03	Investigate and analyze the processes responsible for the rock cycle: (<i>relates with plate tectonics</i>) <ul style="list-style-type: none"> Relate rock formation to plate tectonics 	This is the only bullet of objective 2.03 that addresses EEn.2.1.2. It also addresses EEn.2.1.1. This bullet is completed prior to Earth/Environmental course. <ul style="list-style-type: none"> Analyze the origin, texture and mineral composition of rocks 	

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						<p>These bullets are addressed in EEn.2.1.1.</p> <ul style="list-style-type: none"> Trace the path of elements through the rock cycle Identify forms of energy that drive the rock cycle <p>This bullet is addressed in EEn.2.1.3.</p> <ul style="list-style-type: none"> Analyze the relationship between the rock cycle and processes in the atmosphere and hydrosphere
				2.04	<p>Analyze seismic waves including velocity and refraction to: <i>(relates with earthquakes)</i></p> <ul style="list-style-type: none"> Infer Earth's internal structure 	<p>This is the only bullet of objective 2.04 that addresses EEn.2.1.2. It also is addressed in EEn.2.1.4.</p> <p>These bullets are addressed in EEn.2.1.4.</p> <ul style="list-style-type: none"> Locate earthquake epicenters Measure earthquake magnitude Evaluate the level of seismic activity in North Carolina
				2.05	Create and interpret topographic, soil and geologic maps using scale and legends.	
			Orig in 3.02	Evaluate the geologic history of North Carolina.		
EEn.2.1.3	Explain how natural actions such as weathering, erosion (wind, water and gravity), and soil formation affect Earth's surface.		Hydrosphere and its	4.01	<p>Evaluate erosion and depositional processes:</p> <ul style="list-style-type: none"> Formation of stream channels with respect to the work being done by the stream (i.e. down-cutting, lateral erosion, and transportation) Nature and characteristics of sediments 	<p>These are the only bullets of the objective 4.01 addressed by EEn.2.1.3. They are also addressed in EEn.2.4.2</p> <p>This bullet is addressed in EEn.2.4.1 and EEn.2.4.2.</p>

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						<ul style="list-style-type: none"> Effects on water quality This bullet is addressed by EEn.2.2.1, EEn.2.4.1, EEn.2.4.2.
			Lithospheric Materials, Tectonic Processes, and the Human and	2.03	Investigate and analyze the processes responsible for the rock cycle: <i>(relates with soil formation as part of rock cycle)</i> . <ul style="list-style-type: none"> Analyze the relationship between the rock cycle and processes in the atmosphere and hydrosphere 	This is the only bullet of objective 2.03 addressed by EEn.2.1.3. These are addressed in EEn.2.1.1 and EEn.2.1.2. <ul style="list-style-type: none"> Analyze the origin, texture and mineral composition of rocks Trace the path of elements through the rock cycle Relate rock formation to plate tectonics Identify forms of energy that drive the rock cycle
			Hydrosphere and its Interactions and Influences	4.03	Analyze the mechanisms that produce the various types of shorelines and their resultant landforms: <ul style="list-style-type: none"> Formation and breaking of waves on adjacent topography 	This is the only bullet of objective 4.03 addressed by EEn.2.1.3. This bullet is addressed prior to the Earth/Environmental course. <ul style="list-style-type: none"> Nature of underlying geology This bullet is addressed in EEn.2.6.4. <ul style="list-style-type: none"> Long-and short-term sea-level history This bullet is addressed in EEn.2.2.1. <ul style="list-style-type: none"> Human impact

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Earth Systems, Structures, and Processes	EEn.2.1.4	Explain the probability of and preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data	Lithospheric Materials, Tectonic Processes, and the	2.02	Analyze the historical development of the theory of plate tectonics.	
				2.04	Analyze seismic waves including velocity and refraction to: <ul style="list-style-type: none"> • Infer Earth’s internal structure • Locate earthquake epicenters • Measure earthquake magnitude • Evaluate the level of seismic activity in North Carolina 	
				2.05	Create and interpret topographic, soil and geologic maps using scale and legends.	
Earth Systems, Structures, and Processes	EEn.2.2.1	Understand how human influences impact the lithosphere. Explain the consequences of human activities on the lithosphere (such as mining, deforestation, agriculture, overgrazing, urbanization, and land use) past and present.	Lithospheric Materials, Tectonic Processes, and the Human and	2.06	Investigate and analyze the importance and impact of the economic development of earth’s finite rock, mineral, soil, fossil fuel and other natural resources to society and our daily lives: <ul style="list-style-type: none"> • Availability • Geographic distribution • Conservation/Stewardship • Recycling • Environmental impact • Challenge of rehabilitation of disturbed lands 	This is the only bullet of objective 4.01 addressed in EEn.2.2.1. These bullets are addressed by EEn.2.1.3 and EEn.2.4.2. <ul style="list-style-type: none"> • Formation of stream channels with respect to the work being done by the stream (i.e. down-cutting,
				2.07	Analyze the sources and impacts of society’s use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	
			Hydrosphere and its Interactions and	4.01	Evaluate erosion and depositional processes: <ul style="list-style-type: none"> • Effect of human choices on the rate of erosion 	

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Strand	Objective	Essential Standard	Goal	Objective	Text of objective	Comments
		Text of Clarifying objective				
						lateral erosion, and transportation) <ul style="list-style-type: none"> Nature and characteristics of sediments Effects on water quality
				4.03	Analyze the mechanisms that produce the various types of shorelines and their resultant landforms: <ul style="list-style-type: none"> Human impact 	This is the only bullet of objective 4.03 that is addressed by EEn.2.2.1. This bullet is addressed prior to the Earth/Environmental course. <ul style="list-style-type: none"> Nature of underlying geology This bullet is addressed by EEn.2.6.4. <ul style="list-style-type: none"> Long-and short-term sea-level history This bullet is addressed by EEn.2.1.3. <ul style="list-style-type: none"> Formation and breaking of waves on adjacent topography
	EEn.2.2.2	Compare the various methods humans use to acquire traditional energy sources (such as peat, coal, oil, natural gas, nuclear fission, and wood).	Lithospheric Materials, Tectonic Processes, and	2.06	Investigate and analyze the importance and impact of the economic development of earth’s finite rock, mineral, soil, <i>fossil fuel</i> and other natural resources to society and our daily lives: <ul style="list-style-type: none"> Availability Geographic distribution Conservation/Stewardship Recycling Environmental impact Challenge of rehabilitation of disturbed lands 	

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				2.07 Analyze the sources and impacts of society’s use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	
Earth Systems, Structures, and Processes		Explain the structure and processes within the hydrosphere.	Hydrosphere and its Interactions and Influences on the Lithosphere, the Atmosphere, and Environmental Quality	4.02 Analyze mechanisms for generating ocean currents and upwelling. <ul style="list-style-type: none"> • Temperature • Coriolis effect • Climactic influence 	
	EEn.2.3.1	Explain how water is an energy agent (currents and heat transfer).			
	EEn.2.3.2	Explain how ground water and surface water interact.		4.04 Evaluate water resources: <ul style="list-style-type: none"> • Storage and movement of groundwater 	This is the only bullet of objective 4.04 addressed by EEn.2.3.2. It is also addressed by EEn.2.4.1 These bullets are all addressed in EEn.2.4.1 and EEn.2.4.2. <ul style="list-style-type: none"> • Ecological services provided by the ocean • Environmental impacts of a growing human population • Causes of natural and manmade contamination

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		Text of Clarifying objective					
Earth Systems, Structures, and Processes	Evaluate how humans use water.		Hydrosphere and its Interactions and Influences on the Lithosphere, the Atmosphere, and Environmental Quality	4.01	Evaluate erosion and depositional processes: <ul style="list-style-type: none"> • Effects on water quality • Effect of human choices on the rate of erosion 	These are the only bullets of objective 4.01 addressed in EEn.2.4.1. They are also addressed in EEn.2.2.1 and EEn.2.4.2. These bullets are addressed in EEn.2.1.3 and EEn.2.4.2. <ul style="list-style-type: none"> • Formation of stream channels with respect to the work being done by the stream (i.e. down-cutting, lateral erosion, and transportation) • Nature and characteristics of sediments 	
	EEn.2.4.1	Evaluate human influences on freshwater availability.			4.04	Evaluate water resources: <ul style="list-style-type: none"> • Storage and movement of groundwater • Ecological services provided by the ocean • Environmental impacts of a growing human population • Causes of natural and manmade contamination 	These bullets are also addressed in EEn.2.3.2 and EEn.2.4.2.
					4.05	Investigate and analyze environmental issues and solutions for North Carolina’s river basins, wetlands, and tidal environments: <ul style="list-style-type: none"> • Water quality 	This is the only bullet of objective 4.05 addressed in EEn.2.4.1. It is also addressed in EEn.2.4.2. The following bullets are addressed by EEn.2.4.2. <ul style="list-style-type: none"> • Shoreline changes • Habitat preservation
	EEn.2.4.2	Evaluate human influences on water quality in North Carolina’s river basins, wetlands and tidal environments.			4.01	Evaluate erosion and depositional processes: <ul style="list-style-type: none"> • Formation of stream channels with respect to the work being done by the stream (i.e. down-cutting, lateral erosion, and transportation) • Nature and characteristics of sediments • Effects on water quality • Effect of human choices on the rate of erosion 	These are also addressed in part/whole by EEn.2.1.3, EEn.2.2.1, EEn.2.4.1.

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Strand	Objective	Essential Standard	Goal	Objective	Text of objective	Comments
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				4.04	Evaluate water resources: <ul style="list-style-type: none"> • Ecological services provided by the ocean • Environmental impacts of a growing human population • Causes of natural and manmade contamination 	These are the only bullets of objective 4.04 addressed in EEn.2.4.2. They are also addressed in EEn.2.4.1. This bullet is addressed by EEn.2.4.1. <ul style="list-style-type: none"> • Storage and movement of groundwater
				4.05	Investigate and analyze environmental issues and solutions for North Carolina’s river basins, wetlands, and tidal environments: <ul style="list-style-type: none"> • Water quality • Shoreline changes • Habitat preservation 	
Earth Systems, Structures, and Processes	Understand the structure of and processes within our atmosphere.		Dynamics and Composition of the Atmosphere and its Local and Global Processes Influencing Climate and	5.01	Analyze air masses and the life cycle of weather systems: <ul style="list-style-type: none"> • Planetary wind belts • Air masses • Frontal systems • Cyclonic systems 	
	EEn.2.5.1	Summarize the structure and composition of our atmosphere.		5.01	Analyze air masses and the life cycle of weather systems: <ul style="list-style-type: none"> • Planetary wind belts • Air masses • Frontal systems 	These are the only bullets of objective 5.01 addressed by EEn.2.5.2. This bullet is addressed in EEn.2.5.3. <ul style="list-style-type: none"> • Cyclonic systems
	EEn.2.5.2	Explain the formation of typical air masses and the weather systems that result from air mass interactions.(new)		5.01	Analyze air masses and the life cycle of weather systems: <ul style="list-style-type: none"> • Cyclonic systems 	This is the only bullet of objective 5.01 specifically addressed by EEn.2.5.3. These bullets are addressed in EEn.2.5.2. <ul style="list-style-type: none"> • Planetary wind belts • Air masses • Frontal systems

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Strand	Objective	Essential Standard	Goal	Objective	Text of objective	Comments
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				5.02	Evaluate meteorological observing, analysis, and prediction: <ul style="list-style-type: none"> Worldwide observing systems Meteorological data depiction 	
	EEn.2.5.4	Predict the weather using available weather maps and data (including surface, upper atmospheric winds, and satellite imagery).		5.02	Evaluate meteorological observing, analysis, and prediction: <ul style="list-style-type: none"> Worldwide observing systems Meteorological data depiction 	
	EEn.2.5.5	Explain how human activities affect air quality.		5.03	Analyze global atmospheric changes including changes in CO ₂ , CH ₄ , and stratospheric O ₃ and the consequences of these changes: <ul style="list-style-type: none"> Climate change Changes in weather patterns Increasing ultraviolet radiation Sea level changes 	
Earth Systems, Structures, and Processes	Analyze patterns of global climate change over time.		Dynamics and Composition of the Atmosphere and its Local and Global	5.03	Analyze global atmospheric changes including changes in CO ₂ , CH ₄ , and stratospheric O ₃ and the consequences of these changes: <i>(in the 2004 Detailed Description of Course Content)</i> <ul style="list-style-type: none"> Climate change Changes in weather patterns Increasing ultraviolet radiation Sea level changes 	
	EEn.2.6.1	Differentiate between weather and climate.		5.03	Analyze global atmospheric changes including changes in CO ₂ , CH ₄ , and stratospheric O ₃ and the consequences of these changes: <ul style="list-style-type: none"> Climate change Changes in weather patterns Increasing ultraviolet radiation Sea level changes 	
	EEn.2.6.2	Explain changes in global climate due to natural processes.	Lithospheric	2.07	Analyze the sources and impacts of society's use of energy. <ul style="list-style-type: none"> Renewable & nonrenewable sources The impact of human choices on Earth and its systems 	
	EEn.2.6.6	Analyze the impacts that human activities have on global climate change (such as burning hydrocarbons, greenhouse effect, and deforestation).				

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EEEn.2.6.4			Dynamics and Composition of	5.03	Analyze global atmospheric changes including changes in CO ₂ , CH ₄ , and stratospheric O ₃ and the consequences of these changes: <ul style="list-style-type: none"> • Climate change • Changes in weather patterns • Increasing ultraviolet radiation • Sea level changes 	
		Attribute changes to Earth’s systems to global climate change (temperature change, changes in pH of ocean, sea level changes, etc.).	Hydrosphere and its Interactions and Influences on the Lithosphere,	4.03	Analyze the mechanisms that produce the various types of shorelines and their resultant landforms: <ul style="list-style-type: none"> • Long-and short-term sea-level history 	This is the only bullet of objective 4.03 addressed by EEEn.2.6.4. This bullet of objective 4.03 is addressed prior to the Earth/Environmental course. <ul style="list-style-type: none"> • Nature of underlying geology This bullet is addressed in EEEn.2.1.3. <ul style="list-style-type: none"> • Formation and breaking of waves on adjacent topography This bullet is addressed in EEEn.2.2.1. <ul style="list-style-type: none"> • Human impact
			Dynamics and Composition of the Atmosphere and its Local and	5.03	Analyze global atmospheric changes including changes in CO ₂ , CH ₄ , and stratospheric O ₃ and the consequences of these changes: <ul style="list-style-type: none"> • Climate change • Changes in weather patterns • Increasing ultraviolet radiation 	

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Strand	Objective	Essential Standard	Goal	Objective	Text of objective	Comments
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Earth Systems, Structures, and Processes		Explain how the lithosphere, hydrosphere, and atmosphere individually and collectively affect the biosphere.	Origin and Evolution of the	3.02	Evaluate the geologic history of North Carolina.	
	EE.n.2.7.1	Explain how abiotic and biotic factors interact to create the various biomes in North Carolina.				
	EE.n.2.7.2	Explain why biodiversity is important to the biosphere.				New to the 2009 Essential Standards.
	EE.n.2.7.3	Explain how human activities impact the biosphere.	Lithospheric Materials, Tectonic Processes, and the Human and	2.06	Investigate and analyze the importance and impact of the economic development of earth's finite rock, mineral, soil, fossil fuel and other natural resources <i>to society and our daily lives</i> : <ul style="list-style-type: none"> • Availability • Geographic distribution • Conservation/Stewardship • Recycling • Environmental impact • Challenge of rehabilitation of disturbed lands 	
				2.07	Analyze the sources and impacts of society's use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	
Hydrosphere and its interactions			4.05	Investigate and analyze environmental issues and solutions for North Carolina's river basins, wetlands, and tidal environments: <ul style="list-style-type: none"> • Water quality • Shoreline changes • Habitat preservation 		

2009 Essential Standards		2004 NC SCOS		Comments	
Strand	Essential Standard	Goal	Objective		
Earth Systems, Structures, and Processes	Evaluate human behaviors in terms of how likely they are to ensure the ability to live sustainably on Earth.	Lithospheric Materials, Tectonic Processes, and the Human and Environmental Impacts of Natural and Human-Induced Changes in the	2.06	Investigate and analyze the importance and impact of the economic development of earth’s finite rock, mineral, soil, fossil fuel and other natural resources to society and our daily lives: <ul style="list-style-type: none"> • Availability • Geographic distribution • Conservation/Stewardship • Recycling • Environmental impact • Challenge of rehabilitation of disturbed lands 	
	EEn.2.8.1 Evaluate alternative energy technologies for use in North Carolina.		2.07	Analyze the sources and impacts of society’s use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	
	EEn.2.8.2 Critique conventional and sustainable agriculture and aquaculture practices in terms of their environmental impacts.		2.06	Investigate and analyze the importance and impact of the economic development of earth’s finite rock, mineral, soil, fossil fuel and other natural resources to society and our daily lives: <ul style="list-style-type: none"> • Availability • Geographic distribution • Conservation/Stewardship • Recycling • Environmental impact • Challenge of rehabilitation of disturbed lands 	
			2.07	Analyze the sources and impacts of society’s use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	
EEn.2.8.3 Explain the effects of uncontrolled population growth on the Earth’s resources.	Hydrosphere and its	4.04	Evaluate water resources: <ul style="list-style-type: none"> • Environmental impacts of a growing human population 	This is the only bullet of objective 4.04 addressed by EEn.2.8.3. It is also addressed in EEn.2.4.1 and EEn.2.4.2. This bullet is addressed in EEn.2.3.2. <ul style="list-style-type: none"> • Storage and movement of 	

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						groundwater These bullets are addressed in EEn.2.4.1 and EEn.2.4.2. <ul style="list-style-type: none"> • Ecological services provided by the ocean • Causes of natural and manmade contamination
	EEn.2.8.4	Evaluate the concept of “reduce, reuse, recycle” in terms of impact on natural resources.	Lithospheric Materials, Tectonic Processes, and the Human and	2.06	Investigate and analyze the importance and impact of the economic development of earth’s finite rock, mineral, soil, fossil fuel and other natural resources to society and our daily lives: <ul style="list-style-type: none"> • Conservation/Stewardship • Recycling • Environmental impact • Challenge of rehabilitation of disturbed lands 	These are the only bullets of objective 2.06 specifically addressed in EEn.2.8.4. They are also addressed in EEn.2.7.3, EEn.2.8.1 and EEn.2.8.2. The following bullets are addressed in EEn.2.7.3, EEn.2.8.1 and EEn.2.8.2. <ul style="list-style-type: none"> • Availability • Geographic distribution
				2.07	Analyze the sources and impacts of society’s use of energy. <ul style="list-style-type: none"> • Renewable & nonrenewable sources • The impact of human choices on Earth and its systems 	

Goal 1 in 2004 SCOS, “develop abilities necessary to do and understand scientific inquiry,” should be integrated in classroom instructional unit design.

- Objective 2.01 not addressed**
- Objective 6.01 not addressed**
- Objective 6.03 not addressed**
- Objective 6.04 not addressed**
- Objective 6.05 not addressed**