

## Environmental Science

Strand	Common Curriculum Goal	Content Standard	Standard	Unit Name	Course Topic Description
<b>SC.CM.SI</b> Scientific Inquiry	Formulate and express scientific questions or hypotheses to be investigated.	Make observations. Formulate and express scientific questions or hypotheses to be investigated based on the observations.	<b>SC.CM.SI.01</b> Based on observations and scientific concepts, ask questions or form hypotheses that can be answered or tested through scientific investigations.		
<b>SC.CM.SI</b> Scientific Inquiry	Design safe and ethical scientific investigations to address questions or hypotheses.	Design scientific investigations to address and explain questions or hypotheses.	<b>SC.CM.SI.02</b> Design a scientific investigation that provides sufficient data to answer a question or test a hypothesis.		
<b>SC.CM.SI</b> Scientific Inquiry	Conduct procedures to collect, organize, and display scientific data.	Collect, organize, and display scientific data.	<b>SC.CM.SI.03</b> Collect, organize, and display sufficient data to facilitate scientific analysis and interpretation.		
<b>SC.CM.SI</b> Scientific Inquiry	Analyze scientific information to develop and present conclusions.	Analyze scientific information to develop and present conclusions.	<b>SC.CM.SI.04</b> Summarize and analyze data, evaluating sources of error or bias. Propose explanations that are supported by data and knowledge of scientific terminology.		
<b>SC.CM.ES</b> Earth and Space Science	Understand the properties and limited availability of the materials which make up the Earth.	Identify the structure of the Earth system and the availability and use of the materials that make up that system.	<b>SC.CM.ES.01</b> Describe how the importance and use of resources has changed over time with changes in economic and technological systems.	Mineral and Energy Resources	Nonrenewable Energy and Renewable Energy
			<b>SC.CM.ES.01.01</b> Predict the consequences of increased consumption of renewable and non-renewable resources.	Mineral and Energy Resources	Nonrenewable Energy and Renewable Energy
<b>SC.CM.ES</b> Earth and Space Science	Understand changes occurring within the lithosphere, hydrosphere, and atmosphere of the Earth.	Explain and analyze changes occurring within the lithosphere, hydrosphere, and atmosphere of the Earth.	<b>SC.CM.ES.02</b> Analyze the relationship between global energy transfer and climate.	Water, Air and Land	Atmosphere and Climate change
			<b>SC.CM.ES.02.01</b> Describe the effect of various gases in the atmosphere on the		

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			amount of energy retained by the Earth system.		
			<b>SC.CM.ES.02.02</b> Describe how solar radiation and the amount that reaches Earth is affected by stratospheric ozone.	Water, Air and Land	Atmosphere and Climate change
			<b>SC.CM.ES.02.03</b> Describe how differential heating of the Earth's surface, atmosphere, and oceans produces wind and ocean currents.		
			<b>SC.CM.ES.03</b> Analyze evidence of ongoing evolution of the Earth system.		
			<b>SC.CM.ES.03.01</b> Describe methods of determining ages of rocks and fossils.		
			<b>SC.CM.ES.03.02</b> Use rock sequences and fossil evidence to determine geologic history.		
			<b>SC.CM.ES.03.03</b> Describe and analyze theories of Earth's origin and early history using scientific evidence.		
			<b>SC.CM.ES.03.04</b> Describe how earthquakes, volcanic eruptions, mountain building, and continental movements result from slow plate motions.	Introduction to Environmental Science	The Dynamic Earth
			<b>SC.CM.ES.03.05</b> Describe how the evolution of life caused dramatic changes in the composition on the Earth's atmosphere, which did not originally contain oxygen.		
			<b>SC.CM.ES.03.06</b> Identify how volcanic eruptions and impacts of huge rocks from space can cause widespread effects on climate.	Introduction to Environmental Science	The Dynamic Earth



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<b>SC.CM.ES</b> Earth and Space Science	Understand the Earth's place in the solar system and the universe.	Explain relationships among the Earth, sun, moon, and the solar system.	<b>SC.CM.ES.04</b> Explain how mass and distance affect the interaction between Earth and other objects in space.		
			<b>SC.CM.ES.04.01</b> Recognize that the sun's gravitational pull holds the Earth and other planets in their orbits, just as the planets' gravitational pull keeps their moons in orbit around them.		
			<b>SC.CM.ES.04.02</b> Explain that the force of gravity between Earth and other objects in space depends only upon their masses and the distances between them.		
<b>SC.CM.ES</b> Earth and Space Science	Describe natural objects, events, and processes outside the Earth, both past and present.	At this time there are no Standards associated with this CCG			