

Earth-Space Science v5 – Content Unit Correlation

Standards Report – showing Matching Content Units as of 1/28/2008

Grades: 9

States: CT

Subjects: Science

Connecticut Standards - Science

DOMAIN /
CONTENT
STANDARD

CT.SI. Scientific Inquiry: Scientific inquiry is a thoughtful and coordinated attempt to search out, describe, explain and predict natural phenomena. Scientific inquiry progresses through a continuous process of questioning, data collection, analysis and interpretation. Scientific inquiry requires the sharing of findings and ideas for critical review by colleagues and other scientists.

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PERFORMANCE
STANDARD

D.INQ.3. Formulate a testable hypothesis and demonstrate logical connections between the scientific concepts guiding the hypothesis and the design of the experiment.

Grade 9

Module 1: Introduction and Foundation

Module 3: The Waters

Module 5: The Past

Module 6: Space: The Final Frontier

CONTENT /
PERFORMANCE
STANDARD

D.INQ.4. Design and conduct appropriate types of scientific investigations to answer different questions.

Grade 9

Module 1: Introduction and Foundation

Module 3: The Waters

Module 5: The Past

Module 6: Space: The Final Frontier

DOMAIN /
CONTENT
STANDARD

CT.SL. Scientific Literacy: Scientific literacy includes the ability to read, write, discuss and present coherent ideas about science. Scientific literacy also includes the ability to search for and assess the relevance and credibility of scientific information found in various print and electronic media.

CONTENT /
PERFORMANCE
STANDARD

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DOMAIN / CONTENT STANDARD

CT.SN. Scientific Numeracy: Scientific numeracy includes the ability to use mathematical operations and procedures to calculate, analyze and present scientific data and ideas.

CONTENT / PERFORMANCE STANDARD

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CT.9.1. Energy Transformations: Energy Transfer and Transformations: Energy cannot be created or destroyed; however, energy can be converted from one form to another.

CONTENT / PERFORMANCE STANDARD

D.1. Describe the effects of adding energy to matter in terms of the motion of atoms and molecules, and the resulting phase changes.

Grade 9

Module 2: Weather and Climate

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D.2. Explain how energy is transferred by conduction, convection and radiation.

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Module 2: Weather and Climate

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CT.9.7. Chemical Structure and Properties: The Changing Earth: Elements on Earth move among reservoirs in the solid earth, oceans, atmosphere and organisms as part of biogeochemical cycles.

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STANDARD

D.20. Explain how solar energy causes water to cycle through the major earth reservoirs.

Grade 9

Module 3: The Waters

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STANDARD

D.21. Explain how internal energy of the Earth causes matter to cycle through the magma and the solid earth.

Grade 9

Module 4: The Lands

DOMAIN /
CONTENT
STANDARD

CT.9.8. Chemical Structure and Properties: Science and Technology in Society: The use of resources by human populations may affect the quality of the environment.

CONTENT /
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STANDARD

D.23. Explain how the accumulation of carbon dioxide (CO₂) in the atmosphere increases Earth's 'greenhouse' effect and may cause climate changes.

Grade 9

Module 2: Weather and Climate

CONTENT /
PERFORMANCE
STANDARD

D.24. Explain how the accumulation of mercury, phosphates and nitrates affects the quality of water and the organisms that live in rivers, lakes and oceans.

Grade 9

Module 3: The Waters