

Grade 8 Honors Science Overview

Content Area: **Science**
Course(s): **SCI. 8-H**
Time Period:
Length: **Full year**
Status: **Published**

Cover

EAST BRUNSWICK PUBLIC SCHOOLS

East Brunswick New Jersey

Superintendent of Schools

Dr. Victor P. Valeski

Science

Grade 8 Science Honors

Course Number: 2108

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Course Adoption: 4/21/1986

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Course Overview

Science 8 Honors is a full-year course designed to provide the students with a basic understanding of chemistry, astronomy, geology and meteorology. It is a hands-on, laboratory-oriented course, emphasizing lab safety and practices that students will continue to develop in their future science courses. It focuses on the practice of science through data analysis and writing and explaining scientific conclusions based on evidence. Content knowledge is applied to scenarios where human impact on the environment is analyzed. Water is a unifying theme throughout the course as students analyze such topics as its chemical structure and resulting unique properties, limited availability, and its role in geological and meteorological processes. Students participate in cooperative learning and inquiry activities in small groups, as well as participating in large-group discussions.

Modifications

Each teacher, each student, each classroom is unique and adaptations are specific to each situation. Differentiating instruction and providing multiple ways to assess allows more flexibility for students to meet the standards and requirements of the class. Below are samples of the types of adaptations/modifications that may occur for students based on need including ELLs, students with a 504 Plan, Special Education, Basic Skills and Gifted and Talented students.

Adaptations/Modifications:

<p style="text-align: center;">Input</p> <p>Adapt the way instruction is delivered to the learner.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Use different visual aids, • Plan more concrete examples, • Provide hands-on activities, • Place students in cooperative groups. 	<p style="text-align: center;">Output</p> <p>Adapt how the learner can respond to instruction.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Allow a verbal vs. written response, • Use a communication book for students, • Allow students to show knowledge with hands-on materials. 	<p style="text-align: center;">Time</p> <p>Adapt the time allotted and allowed for learning, task completion or testing.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Individualize a timeline for completing a task, • Pace learning differently (increase or decrease) for some learners.
<p style="text-align: center;">Difficulty</p> <p>Adapt the skill level, problem type, or the rules on how the learner may approach the work.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Simplify task directions. • Use of calculator. 	<p style="text-align: center;">Level of Support</p> <p>Increase the amount of personal assistance with specific learner.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Assign peer buddies, teaching assistants, peer tutors or cross-age tutors. 	<p style="text-align: center;">Size</p> <p>Adapt the number of items that the learner is expected to learn or complete.</p> <p><i>For example:</i></p> <ul style="list-style-type: none"> • Reduce the number of vocabulary words a learner must learn at any one time.
<p style="text-align: center;">Degree of Participation</p> <p>Adapt the extent to which a learner is actively involved in the task.</p>	<p style="text-align: center;">Alternate Goals</p> <p>Adapt the goals or outcome expectations while using the same materials.</p>	<p style="text-align: center;">Substitute Curriculum</p> <p>Provide differentiated instruction and materials to meet a learner's individual goals.</p>

For example:

- Allow for small group/individual presentations vs. presentations to the whole class.

For example:

- Students in the same class are expected to either write a paragraph, write a bulleted response, or meet with the teacher to provide a verbal response.

For example:

- Individualize a timeline for completing a task, pace learning differently (increase or decrease) for some learners,
- Use of Learning Ally.

Materials and Resources

Grade 8 Science Honors: Earth Science, McDougal Littell Inc., 2005.

Author: Spaulding, Namowitz

ISBN: 9780618499380

Content Specific Standards

SCI.MS.PS1.A	Structure and Properties of Matter
SCI.MS.PS1.B	Chemical Reactions
SCI.MS.PS2.A	Forces and Motion
SCI.MS.PS2.B	Types of Interactions
SCI.MS.PS3.A	Definitions of Energy
SCI.MS.PS3.B	Conservation of Energy and Energy Transfer
SCI.MS.PS4.A	Wave Properties
SCI.MS.PS4.B	Electromagnetic Radiation
SCI.MS.ESS1.A	The Universe and Its Stars
SCI.MS.ESS1.B	Earth and the Solar System
SCI.MS.ESS1.C	The History of Planet Earth
SCI.MS.ESS2.A	Earth's Materials and Systems
SCI.MS.ESS2.B	Plate Tectonics and Large-Scale System Interactions
SCI.MS.ESS2.C	The Roles of Water in Earth's Surface Processes
SCI.MS.ESS2.D	Weather and Climate
SCI.MS.ESS3.A	Natural Resources
SCI.MS.ESS3.B	Natural Hazards

SCI.MS.ESS3.C	Human Impacts on Earth Systems
SCI.MS.ESS3.D	Global Climate Change
SCI.MS.ETS1.A	Defining and Delimiting an Engineering Problem
SCI.MS.ETS1.B	Developing Possible Solutions
SCI.MS.ETS1.C	Optimizing the Design Solution
SCI.MS-ESS1-2	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.
SCI.MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
SCI.MS-ESS2-5	Collect data to provide evidence for how the motions and complex interactions of air masses result in changes in weather conditions.
SCI.MS-ESS1-1	Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.
SCI.MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused climate change over the past century.
SCI.MS-ESS3-2	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.
SCI.MS-ESS1-3	Analyze and interpret data to determine scale properties of objects in the solar system.
SCI.MS-ESS2-4	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.
SCI.MS-ESS2-2	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.
SCI.MS-ESS2-6	Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.
SCI.MS-ESS2-1	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.
SCI.MS-ESS3-1	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
SCI.MS-ETS1-3	Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.
SCI.MS-ETS1-2	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.
SCI.MS-ETS1-1	Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.
SCI.MS-PS3-3	Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.
SCI.MS-PS1-4	Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.
SCI.MS-PS1-6	Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes.
SCI.MS-PS4-2	Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.
SCI.MS-PS4-1	Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.

SCI.MS-PS3-4	Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.
SCI.MS-PS1-2	Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.
SCI.MS-PS1-1	Develop models to describe the atomic composition of simple molecules and extended structures.
SCI.MS-PS1-5	Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.
SCI.MS-PS2-4	Construct and present arguments using evidence to support the claim that gravitational interactions are attractive and depend on the masses of interacting objects.
SCI.MS-PS2-2	Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.
SCI.MS-PS2-5	Conduct an investigation and evaluate the experimental design to provide evidence that fields exist between objects exerting forces on each other even though the objects are not in contact.
	Using Mathematics and Computational Thinking
	Asking Questions and Defining Problems
	Analyzing and Interpreting Data
	Stability and Change
	Cause and Effect
	Planning and Carrying Out Investigations
	Developing and Using Models
	Structure and Function
	Constructing Explanations and Designing Solutions
	Obtaining, Evaluating, and Communicating Information
	Energy and Matter
	Systems and System Models
	Assessment does not include calculating the total amount of thermal energy transferred.
	Scale, Proportion, and Quantity
	Patterns
	Engaging in Argument from Evidence
	Influence of Engineering, Technology, and Science on Society and the Natural World

Interdisciplinary Standards

LA.RST.6-8.1	Cite specific textual evidence to support analysis of science and technical texts.
LA.RST.6-8.2	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.
LA.RST.6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.
LA.RST.6-8.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8

texts and topics.

LA.RST.6-8.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.
LA.RST.6-8.6	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.
LA.RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).
LA.RST.6-8.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
LA.RST.6-8.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
LA.RST.6-8.10	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.
LA.WHST.6-8.1	Write arguments focused on discipline-specific content.
LA.WHST.6-8.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
LA.WHST.6-8.4	Produce clear and coherent writing in which the development, organization, voice, and style are appropriate to task, purpose, and audience.
LA.WHST.6-8.5	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.
LA.WHST.6-8.6	Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.
LA.WHST.6-8.8	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.
LA.WHST.6-8.9	Draw evidence from informational texts to support analysis, reflection, and research.
MA.6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
MA.6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
MA.6.SP.B.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
MA.6.SP.B.5	Summarize numerical data sets in relation to their context, such as by:
MA.7.EE.B.4	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.
MA.7.RP.A.2	Recognize and represent proportional relationships between quantities.
MA.8.F.A.3	Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.
MA.8.EE.B.6	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at b .

21st Century Life and Career Ready Practice Standards

CRP.K-12.CRP1.1	Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good.
CRP.K-12.CRP2.1	Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.
CRP.K-12.CRP3.1	Career-ready individuals understand the relationship between personal health, workplace performance and personal well-being; they act on that understanding to regularly practice healthy diet, exercise and mental health activities. Career-ready individuals also take regular action to contribute to their personal financial well-being, understanding that personal financial security provides the peace of mind required to contribute more fully to their own career success.
CRP.K-12.CRP4.1	Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.
CRP.K-12.CRP5.1	Career-ready individuals understand the interrelated nature of their actions and regularly make decisions that positively impact and/or mitigate negative impact on other people, organization, and the environment. They are aware of and utilize new technologies, understandings, procedures, materials, and regulations affecting the nature of their work as it relates to the impact on the social condition, the environment and the profitability of the organization.
CRP.K-12.CRP6.1	Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization. They can consider unconventional ideas and suggestions as solutions to issues, tasks or problems, and they discern which ideas and suggestions will add greatest value. They seek new methods, practices, and ideas from a variety of sources and seek to apply those ideas to their own workplace. They take action on their ideas and understand how to bring innovation to an organization.
CRP.K-12.CRP7.1	Career-ready individuals are discerning in accepting and using new information to make decisions, change practices or inform strategies. They use reliable research process to search for new information. They evaluate the validity of sources when considering the use and adoption of external information or practices in their workplace situation.
CRP.K-12.CRP8.1	Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.
CRP.K-12.CRP9.1	Career-ready individuals consistently act in ways that align personal and community-held ideals and principles while employing strategies to positively influence others in the

workplace. They have a clear understanding of integrity and act on this understanding in every decision. They use a variety of means to positively impact the directions and actions of a team or organization, and they apply insights into human behavior to change others' action, attitudes and/or beliefs. They recognize the near-term and long-term effects that management's actions and attitudes can have on productivity, morals and organizational culture.

CRP.K-12.CRP10.1	Career-ready individuals take personal ownership of their own education and career goals, and they regularly act on a plan to attain these goals. They understand their own career interests, preferences, goals, and requirements. They have perspective regarding the pathways available to them and the time, effort, experience and other requirements to pursue each, including a path of entrepreneurship. They recognize the value of each step in the education and experiential process, and they recognize that nearly all career paths require ongoing education and experience. They seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals.
CRP.K-12.CRP11.1	Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems. They are flexible and adaptive in acquiring new technology. They are proficient with ubiquitous technology applications. They understand the inherent risks-personal and organizational-of technology applications, and they take actions to prevent or mitigate these risks.
CRP.K-12.CRP12.1	Career-ready individuals positively contribute to every team, whether formal or informal. They apply an awareness of cultural difference to avoid barriers to productive and positive interaction. They find ways to increase the engagement and contribution of all team members. They plan and facilitate effective team meetings.

Technology Standards

TECH.8.1.8.A.1	Demonstrate knowledge of a real world problem using digital tools.
TECH.8.1.8.A.3	Use and/or develop a simulation that provides an environment to solve a real world problem or theory.
TECH.8.1.8.A.4	Graph and calculate data within a spreadsheet and present a summary of the results.
TECH.8.1.8.A.5	Create a database query, sort and create a report and describe the process, and explain the report results.
TECH.8.1.8.B.1	Synthesize and publish information about a local or global issue or event (ex. telecollaborative project, blog, school web).
TECH.8.1.8.C.1	Collaborate to develop and publish work that provides perspectives on a global problem for discussions with learners from other countries.
TECH.8.1.8.D.1	Understand and model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics including appropriate use of social media.
TECH.8.1.8.D.2	Demonstrate the application of appropriate citations to digital content.
TECH.8.1.8.D.4	Assess the credibility and accuracy of digital content.
TECH.8.1.8.E.1	Effectively use a variety of search tools and filters in professional public databases to find information to solve a real world problem.
TECH.8.1.8.F.1	Explore a local issue, by using digital tools to collect and analyze data to identify a solution and make an informed decision.
TECH.8.2.8.A.1	Research a product that was designed for a specific demand and identify how the product has changed to meet new demands (i.e., telephone for communication - smart phone for mobility needs).
TECH.8.2.8.A.2	Examine a system, consider how each part relates to other parts, and discuss a part to redesign to improve the system.

TECH.8.2.8.A.3	Investigate a malfunction in any part of a system and identify its impacts.
TECH.8.2.8.A.4	Redesign an existing product that impacts the environment to lessen its impact(s) on the environment.
TECH.8.2.8.A.5	Describe how resources such as material, energy, information, time, tools, people, and capital contribute to a technological product or system.
TECH.8.2.8.B.1	Evaluate the history and impact of sustainability on the development of a designed product or system over time and present results to peers.
TECH.8.2.8.B.2	Identify the desired and undesired consequences from the use of a product or system.
TECH.8.2.8.B.3	Research and analyze the ethical issues of a product or system on the environment and report findings for review by peers and /or experts.
TECH.8.2.8.B.4	Research examples of how humans can devise technologies to reduce the negative consequences of other technologies and present your findings.
TECH.8.2.8.B.5	Identify new technologies resulting from the demands, values, and interests of individuals, businesses, industries and societies.
TECH.8.2.8.C.1	Explain how different teams/groups can contribute to the overall design of a product.
TECH.8.2.8.C.2	Explain the need for optimization in a design process.
TECH.8.2.8.C.3	Evaluate the function, value, and aesthetics of a technological product or system, from the perspective of the user and the producer.
TECH.8.2.8.C.4	Identify the steps in the design process that would be used to solve a designated problem.
TECH.8.2.8.C.6	Collaborate to examine a malfunctioning system and identify the step-by-step process used to troubleshoot, evaluate and test options to repair the product, presenting the better solution.
TECH.8.2.8.C.5a	Explain the interdependence of a subsystem that operates as part of a system.
TECH.8.2.8.C.5b	Create a technical sketch of a product with materials and measurements labeled.
TECH.8.2.8.D.1	Design and create a product that addresses a real world problem using a design process under specific constraints.
TECH.8.2.8.D.2	Identify the design constraints and trade-offs involved in designing a prototype (e.g., how the prototype might fail and how it might be improved) by completing a design problem and reporting results in a multimedia presentation, design portfolio or engineering notebook.
TECH.8.2.8.D.3	Build a prototype that meets a STEM-based design challenge using science, engineering, and math principles that validate a solution.
TECH.8.2.8.D.5	Explain the impact of resource selection and the production process in the development of a common or technological product or system.
TECH.8.2.8.E.1	Identify ways computers are used that have had an impact across the range of human activity and within different careers where they are used.

Pacing Guide

Marking Period 1			
Topic	Pacing (Blocks)	Unit	Assessment Examples
Chemistry I - Introduction/Lab • Safety	4	Chemistry	Lab Safety Quiz

<ul style="list-style-type: none"> • Equipment • Measurement 			
Chemistry 2 – Physical Properties of Matter: <ul style="list-style-type: none"> • Density • States of Matter • Physical Properties • Solubility 	8	Chemistry	Gas Lab Quiz Chromatography Lab Quiz Properties of Matter Unit Test
Chemistry 3 - Classification of Matter <ul style="list-style-type: none"> • Atom/Element/Compound/Molecule • Parts of the Atom • Organization of Periodic Table 	3	Chemistry	Element Box Quiz Classification of Matter Quiz
Chemistry 4 - Quantifying Matter/Chemical Properties and Reactions	5	Chemistry	Water of Crystallization Lab Quiz
MP 1 Exam	1	Chemistry	Exam

Marking period 2

Topic	Pacing (Blocks)	Unit	Assessment Examples
Chemistry 5 - Endothermic/Exothermic Reactions	2-3	Chemistry	Endo/Exo Device Poster
Geology 1 - Minerals	6	Geology	Mineral Quiz
Geo 2 - Rocks	6	Geology	Rock Test
Geo 3 - Groundwater	6	Geology	Fruitvale Conclusion
Quarterly Exam (midterm period)	1	Chemistry Geology	Exam

Marking Period 3

Topic	Pacing (Blocks)	Unit	Assessment
Astronomy 1 - The Universe <ul style="list-style-type: none"> • Light 	9	Astronomy	Astronomy Test 1

<ul style="list-style-type: none"> • Galaxies • Stars • Gravity • the Sun • Space Weather 			
Astronomy 2 - The Solar System	8	Astronomy	Kepler's Laws Lab Quiz Astronomy Test 2
Astronomy 3 - The Moon	5	Astronomy	On Quarterly
Quarterly Exam	1	Astronomy	Exam

Marking Period 4			
Topic	Pacing (Blocks)	Unit	Assessment Examples
Meteorology 1 - Seasons	2	Meteorology	Labs assessed
Meteorology 2 – Heat Transfer	4	Meteorology	Labs Assessed
Meteorology 3 - Atmosphere and the Water Cycle	3-4	Meteorology	Meteorology Test 1
Meteorology 4 - Humidity and Temperature	4	Meteorology	Humidity Quiz
Meteorology 5 - Air	5	Meteorology	Air Quiz
Meteorology 6 - Climate Change	2-3	Meteorology	Class Discussions Assessed on Quarterly
Quarterly Exam	1	Meteorology	Exam

Formative and Summative Assessment

Teachers utilize a variety of methods for assesment including:

Category Criteria	Unit Tests and Quizzes	Labs, Projects & Classwork	Lab Assessments	Homework
	Individual assessments based on specific or general content knowledge.	Any group work primarily completed in class to be checked and/or graded for completion.	Individual assessments based on group lab work. Lab data and other notes may sometimes be used.	Any work assigned to be completed outside of the classroom.

All students take a common Midterm and Final Exam.

Grading and Evaluation Guidelines

Marking period grades for Science 8 Honors will be determined using the following weighting:

- Homework - 5%
- Quarterly Exam - 15%
- Assignments - 45%
- Assessments - 35%

A point system is used within each grading category so that assessments with a higher point value make a more significant contribution to that category's grade. The final grade for the course is the average of the four marking period grades.

The content, teaching strategies, common assessments, and student results for this course are evaluated annually.

Other Details

SCED: 53008 Earth/Space Science

Earth/Space Science covers basic principles of earth and space science. These may include plate tectonics, rocks and the rock cycle, weather, ocean currents, movements of the Earth, moon, and planets, components of the galaxy and universe, or other topics consistent with state academic standards for earth and space science.

