

Grade 8 Academic Science Overview

Content Area: **Science**
Course(s): **SCI. 8-A, Sci 8-A**
Time Period: **Full Year Course**
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 Academic

Course Number: 2106

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Course Adoption: 4/21/1986

Curriculum Adoption: 5/09/1999

Course Overview

Science 8 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>Input 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>Output 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>Time 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>Difficulty 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>Level of Support 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>Size 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>Degree of Participation Adapt the extent to which a learner is actively involved in the task.</p>	<p>Alternate Goals Adapt the goals or outcome expectations while using the same materials.</p>	<p>Substitute Curriculum Provide differentiated instruction and materials to meet a learner's individual goals.</p>

<p><i>For example:</i></p> <ul style="list-style-type: none"> • Allow for small group/individual presentations vs. presentations to the whole class. 	<p><i>For example:</i></p> <ul style="list-style-type: none"> • 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. 	<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, • Use of Learning Ally.
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Materials and Resources

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Content Specific Standards

SCI.MS-PS1-1	Develop models to describe the atomic composition of simple molecules and extended structures.
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.B	Chemical Reactions
SCI.MS-PS1-3	Gather and make sense of information to describe that synthetic materials come from natural resources and impact society. Obtaining, Evaluating, and Communicating Information
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.A	Structure and Properties of Matter
SCI.MS.PS3.A	Definitions of Energy
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-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-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. Engaging in Argument from Evidence

SCI.MS.PS2.B	Types of Interactions
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.
SCI.MS-PS3-3	Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.
SCI.MS.PS3.B	Conservation of Energy and Energy Transfer
SCI.MS.ETS1.A	Defining and Delimiting an Engineering Problem
	Using Mathematics and Computational Thinking
SCI.MS-PS4-2	Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.
SCI.MS.PS4.A	Wave Properties
SCI.MS.PS4.B	Electromagnetic Radiation
	Structure and Function
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.ESS1.A	The Universe and Its Stars
	Patterns
SCI.MS-ESS1-2	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.
	Systems and System Models
SCI.MS-ESS1-3	Analyze and interpret data to determine scale properties of objects in the solar system.
SCI.MS.ESS1.B	Earth and the Solar System
	Scale, Proportion, and Quantity
SCI.MS-ESS2-1	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.
	Developing and Using Models
SCI.MS.ESS2.A	Earth's Materials and Systems
	Stability and Change
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.C	The Roles of Water in Earth's Surface Processes
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.
	Energy and Matter
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.
	Planning and Carrying Out Investigations
SCI.MS.ESS2.D	Weather and Climate
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-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.ESS3.A	Natural Resources
	Cause and Effect
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.
	Analyzing and Interpreting Data
SCI.MS.ESS3.B	Natural Hazards
SCI.MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
	Constructing Explanations and Designing Solutions
SCI.MS.ESS3.C	Human Impacts on Earth Systems
SCI.MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused climate change over the past century.
SCI.MS.ESS3.D	Global Climate Change
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.
	Asking Questions and Defining Problems
	Influence of Engineering, Technology, and Science on Society and the Natural World
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.B	Developing Possible Solutions
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-ETS1-4	Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.
SCI.MS.ETS1.C	Optimizing the Design Solution

Interdisciplinary Standards

MA.6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
LA.RH.6-8.1	Cite specific textual evidence to support analysis of primary and secondary sources.
LA.RH.6-8.2	Determine the central ideas or information of a primary or secondary source; provide an accurate summary of the source distinct from prior knowledge or opinions.
MA.7.RP.A.2	Recognize and represent proportional relationships between quantities.
LA.RH.6-8.3	Identify key steps in a text's description of a process related to history/social studies (e.g., how a bill becomes law, how interest rates are raised or lowered).
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.
LA.RH.6-8.7	Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.
LA.RH.6-8.8	Distinguish among fact, opinion, and reasoned judgment in a text.

LA.RH.6-8.9	Analyze the relationship between a primary and secondary source on the same topic.
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.6-8.7	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.A	Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
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.
LA.WHST.6-8.1.B	Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text, using credible sources.
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.
LA.WHST.6-8.1.C	Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
LA.WHST.6-8.1.D	Establish and maintain a formal/academic style, approach, and form.
LA.WHST.6-8.1.E	Provide a concluding statement or section that follows from and supports the argument presented.
LA.WHST.6-8.2.A	Introduce a topic and organize ideas, concepts, and information using text structures (e.g., definition, classification, comparison/contrast, cause/effect, etc.) and text features (e.g., headings, graphics, and multimedia) when useful to aiding comprehension.
LA.WHST.6-8.2.B	Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.
LA.WHST.6-8.2.D	Use precise language and domain-specific vocabulary to inform about or explain the topic.
LA.WHST.6-8.2.F	Provide a concluding statement or section that follows from and supports the information or explanation presented.
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.
MA.6.EE.B.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
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:

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	Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.
TECH.8.1.8.A.1	Demonstrate knowledge of a real world problem using digital tools.
TECH.8.1.8.A.2	Create a document (e.g., newsletter, reports, personalized learning plan, business letters or flyers) using one or more digital applications to be critiqued by professionals for usability.
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.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.D.5	Understand appropriate uses for social media and the negative consequences of misuse.

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.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.7	Collaborate with peers and experts in the field to research and develop a product using the design process, data analysis and trends, and maintain a design log with annotated sketches to record the developmental cycle.
TECH.8.2.8.C.8	Develop a proposal for a chosen solution that include models (physical, graphical or mathematical) to communicate the solution to peers.
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.4	Research and publish the steps for using and maintaining a product or system and incorporate diagrams or images throughout to enhance user comprehension.
TECH.8.2.8.D.6	Identify and explain how the resources and processes used in the production of a current technological product can be modified to have a more positive impact on the environment.

Pacing Guide

Marking Period 1

Topic	Pacing (Blocks)	Unit	Assessment Examples
Chemistry 1 - Introduction/Lab Safety/Equipment/Measurement	2	Chemistry	Pre-Assessment Lab Safety Quiz
Chemistry 2 - Physical Properties of Matter	8	Chemistry	SoM Quiz Properties of Matter Unit Test
Chemistry 3 - Classification of Matter	5	Chemistry	Nuts and Bolts Lab Quiz
Chemistry 4- Chemical Reactions and Physical vs Chemical Change	5.5	Chemistry	Counting Atoms Quiz
Marking Period 1 Review and Exam	1.5	Chemistry	Exam

Marking Period 2			
Topic	Pacing (Blocks)	Unit	Assessment Examples
Chemistry 4 - Chemical Reactions	5	Chemistry	Endo/Exo Device Project/Presentations
Geology 1 - Minerals	5	Geology	Mineral Quiz
Geology 2 - Rocks	5	Geology	Rock Test
Geology 3 - Groundwater	4.5	Geology	Fruitvale Conclusion
Marking Period 2 Review and Exam	0.5 Plus Midterm block	Chemistry/ Geology	Quarterly Exam

Marking Period 3			
Topic	Pacing (Blocks)	Unit	Assessment Examples
Astronomy1 - The Universe- Light, Galaxies, Stars, Gravity, the Sun	10	Astronomy	Galaxies, Stars Test
Astronomy 2 - The Solar System	6	Astronomy	Solar System Model Lab Assessment Solar System Test
Astronomy 3 - The Moon	5.5	Astronomy	Moon Phases Quiz

Marking Period 3 Review and Exam	1.5	Astronomy	Marking Period Exam
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Marking Period 4			
Topic	Pacing (Blocks)	Unit	Assessment Examples
Meteorology 1 - Seasons	2	Meteorology	Radiant Energy and Seasons Activity
Meteorology 2 - Heat Transfer	4	Meteorology	Greenhouse Effect Phet Heat Transfer Quiz
Meteorology 3 - Atmosphere	2	Meteorology	Composition of the Atmosphere
Meteorology 4 - Water Cycle	2	Meteorology	Meteorology Test
Meteorology 5 - Humidity and Temperature	4	Meteorology	Humidity Quiz
Meteorology 6 - Air	3	Meteorology	Air Quiz
Meteorology 7 - Climate Change	2.5	Meteorology	Climate Change CER
Marking Period 4 Review and Exam	0.5 plus Final Block	Meteorology	Marking Period Exam

Formative and Summative Assessment

Unit exams are administered at the end of each of the four major content areas. These exam grades are averaged into the test and quiz category in the marking period in which they are administered. Midterm exam grades are averaged into the second marking period and Final exam grades are averaged into the fourth marking period.

Teachers administer multiple content test/quizzes throughout the each marking period.

Grading and Evaluation Guidelines

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

- Homework - 10%
- Quarterly - 10%
- Assignments - 50%
- Assessments - 30%

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 Information

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.