

Wyoming Department of Education Required Virtual Education Course Syllabus

Niobrara County School District # 1

Program Name	Wyoming Virtual Academy	Content Area	SC
Course ID	D-SCI-113BV2-K	Grade Level	9-12
Course Name	Summit Earth Science Core - Semester 2	# of Credits	0.5
SCED Code	03001G0.5022	Curriculum Type	K12 Inc

COURSE DESCRIPTION

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

WYOMING CONTENT AND PERFORMANCE STANDARDS

STANDARD#	BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets
HS-ESS1-1	Develop a model based on evidence to illustrate the life span of the sun and the role of nuclear fusion in the sun's core to release energy that eventually reaches Earth in the form of radiation.
HS-ESS1-2	Construct an explanation of the Big Bang theory based on astronomical evidence of light spectra, motion of distant galaxies, and composition of matter in the universe.
HS-ESS1-3	Communicate scientific ideas about the way stars, over their life cycle, produce elements.
HS-ESS1-4	Use mathematical or computational representations to predict the motion of orbiting objects in the solar system.
HS-ESS2-2	Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.
HS-ESS2-4	Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.
HS-ESS2-5	Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.
HS-ESS2-6	Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere.
HS-ESS2-7	Construct an argument based on evidence about the simultaneous coevolution of Earth's systems and life on Earth.
HS-ESS3-1	Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.
HS-ESS3-2	Evaluate competing design solutions for developing, managing, and using energy and mineral resources based on cost -benefit ratios.
HS-ESS3-3	Use computational tools to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.

HS-ESS3-4	Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.
HS-ESS3-5	Analyze data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.
HS-ESS3-6	Use the results of a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.
HS-PS1-6	Evaluate the design of a chemical system by changing conditions to produce increased amounts of products at equilibrium, and refine the design, as needed.
HS-PS1-8	Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay.
HS-ETS1-4	Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to the problem.
HS-ETS1-5	Evaluate the validity and reliability of claims in a variety of materials.

SCOPE AND SEQUENCE

UNIT OUTLINE	STANDARD#	OUTCOMES OBJECTIVES/STUDENT CENTERED GOALS
Unit 1: Weather 2 Lesson 1: Semester Introduction	0	Explore and explain the concepts discussed in this semester of Earth Science.
Unit 1: Weather 2 Lesson 2: Climate vs. Weather	0	Define climate as the average atmospheric conditions of a region, as described by weather observations made over time. Define climate and apply it to a familiar region. Explain how weather and climate involve energy transfer in the atmosphere and give examples.
Unit 1: Weather 2 Lesson 3: What Influences the Weather?	0	Discuss how weather is influenced by both natural and artificial earth features.
Unit 1: Weather 2 Lesson 4: Review Climate vs. Weather and What Influences the Weather	0	Discuss how weather is influenced by both natural and artificial earth features. Define climate, and apply it to a familiar region. Explain how weather and climate involve energy transfer in the atmosphere, and give examples.
Unit 1: Weather 2 Lesson 5: Laboratory: Cloud Formation	0	Explain the differences in air temperature, amount of moisture,

		condensation nuclei, and pressure using data about geographic and topographic locations.
Unit 1: Weather 2 Lesson 6: Laboratory: Relative Humidity	0	Determine the relationship between relative humidity and dew point.
Unit 1: Weather 2 Lesson 7: The Greenhouse Effect	0	Explain that climate, weather, and currents are the result of uneven distribution of solar energy over earth's surface. Explain the atmospheric conditions that lead to the greenhouse effect. Interpret a diagram that illustrates how and why the greenhouse effect occurs.
Unit 1: Weather 2 Lesson 8: Greenhouse Effect Analyses	0	Explain the atmospheric conditions that lead to the greenhouse effect. Describe methods and technologies that scientists employ to gather data about the greenhouse effect on earth.
Unit 1: Weather 2 Lesson 9: Review Cloud Formation, Relative Humidity, The Greenhouse Effect	0	Explain the atmospheric conditions that lead to the greenhouse effect. Explain the differences in air temperature, amount of moisture, condensation nuclei, and pressure using data about geographic and topographic locations. Determine the relationship between relative humidity and dew point. Interpret a diagram that illustrates how and why the greenhouse effect occurs. Describe methods and technologies that scientists employ to gather data about the greenhouse effect on earth.
Unit 1: Weather 2 Lesson 10: Climate Change	0	Explain that climate, weather, and currents are the result of uneven distribution of solar energy over earth's surface. Define the term climate change and discuss examples of conditions that may contribute to patterns of climate change over time.
Unit 1: Weather 2 Lesson 11: Patterns of Climate Change	0	Describe the causes of the El Nino Southern Oscillation (ENSO) on air and water temperatures in the Pacific area and the effects of ENSO on climate.

<p>Unit 1: Weather 2 Lesson 12: Review Climate Change</p>	<p>0</p>	<p>Define the term climate change, and discuss examples of conditions that may contribute to patterns of climate change over time. Describe the causes of the El Niño Southern Oscillation (ENSO) and the effects of ENSO on air and water temperatures in the Pacific area and on climate.</p>
<p>Unit 1: Weather 2 Lesson 13: Laboratory: Temperature of Water and Soil 1</p>	<p>0</p>	<p>Explain that climate, weather, and currents are the result of uneven distribution of solar energy over earth's surface. Make a hypothesis. Make observations. Draw conclusions about the relationship between heat and land surface.</p>
<p>Unit 1: Weather 2 Lesson 14: Laboratory: Temperature of Water and Soil 2</p>	<p>0</p>	<p>Explain that climate, weather, and currents are the result of uneven distribution of solar energy over earth's surface. Make a hypothesis. Make observations. Draw conclusions about the relationship between heat and land surface.</p>
<p>Unit 1: Weather 2 Lesson 15: Your Choice</p>	<p>0</p>	<p>0</p>
<p>Unit 1: Weather 2 Lesson 16: Unit Test</p>	<p>HS-ESS2-2, HS-ESS2-4, HS-ESS3-5, HS-PS1-6</p>	<p>0</p>
<p>Unit 2: Oceans Lesson 1: Oceans of the World</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (for example, temperature and salinity), and explain how these data are applied to analyze the layers in the oceans. Recognize that the physical and chemical properties of ocean water influence the formation of currents and the distribution of marine life. Understand the makeup of seawater and its chemical composition, including properties of water, specific dissolved salts, salinity, and dissolved gases. Analyze ocean temperature data. Understand the temperature, density, thermoclines, and visibility of seawater. Associate differences in temperature with the geographic distribution of</p>

		<p>marine life in the earth's oceans.</p> <p>Relate data on salinity levels of ocean water to marine life found in different areas of the world.</p>
<p>Unit 2: Oceans Lesson 2: Chemistry of the Oceans</p>	<p>0</p>	<p>Understand the makeup of seawater and its chemical composition, including properties of water, specific dissolved salts, salinity, and dissolved gases. Analyze ocean temperature data. Describe erosion and deposition.</p>
<p>Unit 2: Oceans Lesson 3: Review Oceans of the World and Chemistry of the Oceans</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (for example, temperature and salinity), and explain how these data are applied to analyze the layers in the oceans. Recognize that the physical and chemical properties of ocean water influence the formation of currents and the distribution of marine life. Understand the makeup of seawater and its chemical composition, including the properties of water, specific dissolved salts, salinity, and dissolved gases.</p>
<p>Unit 2: Oceans Lesson 4: Physical Properties of Seawater</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (for example, temperature and salinity), and explain how these data are applied to analyze the layers in the oceans. Recognize that the physical and chemical properties of ocean water influence the formation of currents and the distribution of marine life. Understand the makeup of seawater and its chemical composition, including properties of water, specific dissolved salts, salinity, and dissolved gases. Analyze ocean temperature data. Understand the temperature, density,</p>

		<p>thermoclines, and visibility of seawater. Describe the physical properties of ocean water. Explain how data is applied to analyze the layers in the oceans.</p>
<p>Unit 2: Oceans Lesson 5: Review Physical Properties of Seawater</p>	<p>0</p>	<p>Recognize that the physical and chemical properties of ocean water influence the formation of currents and the distribution of marine life. Understand the temperature, density, thermoclines, and visibility of seawater. Describe the physical properties of ocean water. Explain how data is applied to analyze the layers in the oceans.</p>
<p>Unit 2: Oceans Lesson 6: Laboratory: Ocean Water Density 1</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (for example, temperature and salinity), and explain how these data are applied to analyze the layers in the oceans. Analyze ocean temperature data. Describe the physical and chemical properties of ocean water (e.g., temperature and salinity). Explain how temperature and salinity are applied to analyze the layers in the oceans.</p>
<p>Unit 2: Oceans Lesson 7: Laboratory: Ocean Water Density 2</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (for example, temperature and salinity), and explain how these data are applied to analyze the layers in the oceans. Analyze ocean temperature data. Describe the physical and chemical properties of ocean water (e.g., temperature and salinity). Explain how temperature and salinity are applied to analyze the layers in the oceans.</p>

<p>Unit 2: Oceans Lesson 8: Ocean Currents</p>	<p>0</p>	<p>Recognize that the physical and chemical properties of ocean water influence the formation of currents and the distribution of marine life. Describe upwelling. Explain the causes of horizontal and vertical ocean circulation patterns. Describe the effects of ocean currents on weather and climate on the land.</p>
<p>Unit 2: Oceans Lesson 9: Review Ocean Water Density and Ocean Currents</p>	<p>0</p>	<p>Describe the physical and chemical properties of ocean water (e.g., temperature and salinity). Explain how temperature and salinity are applied to analyze the layers in the oceans. Explain the causes of horizontal and vertical ocean circulation patterns. Describe the effects of ocean currents on weather and climate on the land.</p>
<p>Unit 2: Oceans Lesson 10: Your Choice</p>	<p>0</p>	<p>0</p>
<p>Unit 2: Oceans Lesson 11: Mid-Unit Test</p>	<p>HS-ESS2-2, HS-ESS2-4</p>	<p>0</p>
<p>Unit 2: Oceans Lesson 12: Ocean Conditions and Life</p>	<p>0</p>	<p>Understand the temperature, density, thermoclines, and visibility of seawater. Associate differences in temperature with the geographic distribution of marine life in the earth's oceans. Identify specific marine organisms associated with different layers in ocean water. Relate data on salinity levels of ocean water to marine life found in different areas of the world.</p>
<p>Unit 2: Oceans Lesson 13: Review Ocean Conditions and Life</p>	<p>0</p>	<p>Identify specific marine organisms associated with different layers in ocean water. Relate data on salinity levels of ocean water to marine life found in different areas of the world. Associate differences in temperature with the geographic distribution of marine life in the earth's oceans. Connect differences in temperature to the geographic distribution of marine life in the oceans. Identify the types of marine organisms</p>

		that inhabit the different layers of the ocean. Connect the oceans' salinity levels to the types of marine life found in different parts of the world.
Unit 2: Oceans Lesson 14: Laboratory: Ocean Floor Sediments 1		0 Understand the broad categories of seafloor sediments. Analyze seafloor sediments.
Unit 2: Oceans Lesson 15: Laboratory: Ocean Floor Sediments 2		0 Understand the broad categories of seafloor sediments. Analyze seafloor sediments.
Unit 2: Oceans Lesson 16: Your Choice		0
Unit 2: Oceans Lesson 17: Unit Test	HS-ESS2-2, HS-ESS2-4	0
Unit 3: Cycles on Earth Lesson 1: Biogeochemical Cycles		0 Define a biogeochemical cycle and give examples. Explain how earth's internal and external sources of energy drive biogeochemical cycles. Describe the effects of the nitrogen cycle on living organisms. Give examples of human activity causing changes in biogeochemical cycles. Discuss the positive and negative effects of human-induced changes in naturally occurring biogeochemical cycles. Interpret a diagram of the nitrogen cycle.
Unit 3: Cycles on Earth Lesson 2: Review Biogeochemical Cycles		0 Define a biogeochemical cycle and give examples. Explain how earth's internal and external sources of energy drive biogeochemical cycles. Describe the effects of the nitrogen cycle on living organisms. Give examples of human activity causing changes in biogeochemical cycles. Discuss the positive and negative effects of human-induced changes in naturally occurring biogeochemical cycles. Interpret a diagram of the nitrogen cycle.

<p>Unit 3: Cycles on Earth Lesson 3: Carbon Cycle</p>	<p>0</p>	<p>Interpret a diagram of the carbon cycle.</p> <p>Describe the relationship of the carbon cycle with earth's atmosphere and hydrosphere.</p> <p>Describe the influence of the carbon cycle on the earth's organisms</p>
<p>Unit 3: Cycles on Earth Lesson 4: Life and the Carbon Cycle</p>	<p>0</p>	<p>Describe the relationship of the carbon cycle with earth's atmosphere and hydrosphere.</p> <p>Describe the influence of the carbon cycle on the earth's organisms.</p> <p>Describe the influence of the carbon cycle on earth's organisms.</p>
<p>Unit 3: Cycles on Earth Lesson 5: Review Carbon Cycle and Life and the Carbon Cycle</p>	<p>0</p>	<p>Describe the relationship of the carbon cycle with earth's atmosphere and hydrosphere.</p> <p>Describe the influence of the carbon cycle on earth's organisms.</p> <p>Interpret a diagram of the carbon cycle.</p>
<p>Unit 3: Cycles on Earth Lesson 6: Laboratory: Dissolved Oxygen 1</p>	<p>0</p>	<p>Compare the growth of organisms to the levels of yeast (microorganisms) present in the water.</p> <p>Infer how excessive nutrients can make the water unlivable for other aquatic life.</p> <p>Observe the impact that elevated levels of biodegradable waste can have on an aquatic environment.</p>
<p>Unit 3: Cycles on Earth Lesson 7: Laboratory: Dissolved Oxygen 2</p>	<p>0</p>	<p>Compare the growth of organisms to the levels of yeast (microorganisms) present in the water.</p> <p>Infer how excessive nutrients can make the water unlivable for other aquatic life.</p> <p>Observe the impact that elevated levels of biodegradable waste can have on an aquatic environment.</p>
<p>Unit 3: Cycles on Earth Lesson 8: Water Cycle</p>	<p>0</p>	<p>Interpret a diagram of the water cycle and explain the interacting processes.</p> <p>Discuss the physical changes and events that occur in the water cycle.</p>
<p>Unit 3: Cycles on Earth Lesson 9: Review Dissolved Oxygen and Water Cycle</p>	<p>0</p>	<p>Discuss the physical changes and events that occur in the water cycle.</p> <p>Compare the growth of organisms to the levels of yeast (microorganisms) present in the water.</p> <p>Infer how excessive nutrients can make the water unlivable for other aquatic life.</p>

		<p>Observe the impact that elevated levels of biodegradable waste can have on an aquatic environment.</p> <p>Interpret a diagram of the water cycle, and explain the interacting processes.</p>
<p>Unit 3: Cycles on Earth Lesson 10: Your Choice</p>	0	0
<p>Unit 3: Cycles on Earth Lesson 11: Unit Test</p>	<p>HS-ESS2-2, HS-ESS2-4, HS-ESS2-5, HS-ESS2-6, HS-ESS2-7</p>	0
<p>Unit 4: Astronomy Lesson 1: The Sun</p>	0	<p>Recognize that the sun is a star.</p> <p>Describe the sun's nuclear reactions and explain how helium forms from the fusion of hydrogen atoms.</p> <p>Describe solar radiation and its effects on the earth.</p> <p>Describe the sun's nuclear reactions, and explain how helium forms from the fusion of hydrogen atoms.</p>
<p>Unit 4: Astronomy Lesson 2: The Earth–Moon–Sun System</p>	0	<p>Describe the relative position and interaction of the sun, earth, and moon.</p> <p>Interpret a diagram and explain the sequence and causes of lunar phases.</p> <p>Describe the effects of lunar phases on earth.</p> <p>Describe the relative positions and interactions of the sun, earth, and moon.</p> <p>Interpret a diagram, and explain the sequence and causes of lunar phases.</p>
<p>Unit 4: Astronomy Lesson 3: Review The Sun and The Earth–Moon–Sun System</p>	0	<p>Recognize that the sun is a star.</p> <p>Describe solar radiation and its effects on the earth.</p> <p>Describe the effects of lunar phases on earth.</p> <p>Describe the sun's nuclear reactions, and explain how helium forms from the fusion of hydrogen atoms.</p> <p>Describe the relative positions and interactions of the sun, earth, and moon.</p> <p>Interpret a diagram of lunar phases, and explain their sequence and causes.</p>
<p>Unit 4: Astronomy Lesson 4: Laboratory: Solar Energy</p>	0	<p>Describe solar radiation and its effects on the earth.</p>

<p>Unit 4: Astronomy Lesson 5: The Moon's Influence</p>	<p>0</p>	<p>Interpret a diagram and explain the sequence and causes of lunar phases. Describe the effects of lunar phases on earth. Describe the relative position of the moon. Interpret a diagram of lunar phases, and explain their sequence and causes.</p>
<p>Unit 4: Astronomy Lesson 6: Review Solar Energy and The Moon's Influence</p>	<p>0</p>	<p>Describe solar radiation and its effects on the earth. Describe the relative position of the moon. Interpret a diagram of lunar phases, and explain their sequence and causes. Describe the effects of lunar phases on the earth.</p>
<p>Unit 4: Astronomy Lesson 7: Earth Movement and Seasons</p>	<p>0</p>	<p>Interpret a diagram that shows the earth's changing position as it orbits the sun. Explain how the tilt of earth's axis of rotation causes the annual cycle of seasonal change.</p>
<p>Unit 4: Astronomy Lesson 8: Review Earth Movement and Seasons</p>	<p>0</p>	<p>Interpret a diagram that shows the earth's changing position as it orbits the sun. Explain how the tilt of the earth's axis of rotation causes the annual cycle of seasonal change.</p>
<p>Unit 4: Astronomy Lesson 9: Laboratory: Observing Earth's Rotation</p>	<p>0</p>	<p>Describe the relative positions and interactions of the sun, earth, and moon.</p>
<p>Unit 4: Astronomy Lesson 10: Laboratory: Sunrise and Sunset</p>	<p>0</p>	<p>Describe variations in the sun's path across the sky by season and with latitude. Connect variations in the sun's path with sunrise, sunset, and length of day.</p>
<p>Unit 4: Astronomy Lesson 11: Origin of the Solar System</p>	<p>0</p>	<p>Explain the origin and development of the solar system. Interpret a diagram of the solar system. Apply knowledge of the force of gravity to explain how the sun and the planets are part of a system.</p>
<p>Unit 4: Astronomy Lesson 12: Features of the Solar System</p>	<p>0</p>	<p>Distinguish differences among objects in the solar system, including the sun, moon, planets, comets, asteroids, meteors, and satellites. Contrast objects in the solar system with objects outside the solar system. Distinguish differences among objects in the solar system, including the sun,</p>

		moons, planets, comets, asteroids, meteors, and satellites.
Unit 4: Astronomy Lesson 13: Review Origin and Features of the Solar System	0	<p>Explain the origin and development of the solar system.</p> <p>Contrast objects in the solar system with objects outside the solar system.</p> <p>Describe the relative positions and interactions of the sun, earth, and moon.</p> <p>Describe variations in the sun's path across the sky by season and with latitude.</p> <p>Connect variations in the sun's path with sunrise, sunset, and length of day.</p> <p>Interpret a diagram of the solar system.</p> <p>Apply knowledge of the force of gravity to explain how the sun and the planets are part of a system.</p> <p>Distinguish differences among objects in the solar system, including the sun, moons, planets, comets, asteroids, meteors, and satellites.</p>
Unit 4: Astronomy Lesson 14: Your Choice	0	0
Unit 4: Astronomy Lesson 15: Mid-Unit Test	HS-ESS1-1, HS-ESS1-2, HS-ESS1-3, HS-ESS1-4, HS-PS1-8	0
Unit 4: Astronomy Lesson 16: The Planets	0	Compare terrestrial and gas planets and describe their similarities and differences.
Unit 4: Astronomy Lesson 17: Review The Planets	0	Compare terrestrial and gas planets, and describe their similarities and differences.
Unit 4: Astronomy Lesson 18: Electromagnetic Spectrum	0	<p>Interpret a diagram that shows the electromagnetic spectrum.</p> <p>Discuss different parts of the electromagnetic spectrum (for example, X-rays, visible light, and radio waves).</p> <p>Discuss different parts of the electromagnetic spectrum.</p>
Unit 4: Astronomy Lesson 19: Light: A Tool for Astronomy	0	<p>Explain how electromagnetic radiation is used as a tool in astronomy.</p> <p>Explain the sequential process of light moving through a telescope.</p>

<p>Unit 4: Astronomy Lesson 20: Review Electromagnetic Spectrum and Light</p>	<p>0</p>	<p>Interpret a diagram that shows the electromagnetic spectrum. Explain how electromagnetic radiation is used as a tool in astronomy. Explain the sequential process of light moving through a telescope. Discuss different parts of the electromagnetic spectrum.</p>
<p>Unit 4: Astronomy Lesson 21: Distances in Space</p>	<p>0</p>	<p>Explain the evidence suggesting that the distance from earth to other stars is greater than the distance to other planets. Explain the evidence that the distance from earth to other stars is greater than the distance to other planets.</p>
<p>Unit 4: Astronomy Lesson 22: Review Distances in Space</p>	<p>0</p>	<p>Explain the evidence that the distance from the earth to other stars is greater than the distance to other planets.</p>
<p>Unit 4: Astronomy Lesson 23: Life Cycle of a Star</p>	<p>0</p>	<p>Describe the life cycle of a star. Explain how different kinds of telescopes gather information about stars. Give examples and analyze the differences between various stars. Explain how different types of telescopes gather information about stars.</p>
<p>Unit 4: Astronomy Lesson 24: Review Life Cycle of a Star</p>	<p>0</p>	<p>Describe the life cycle of a star. Give examples and analyze the differences between various stars. Explain how different types of telescopes gather information about stars.</p>
<p>Unit 4: Astronomy Lesson 25: What's a Galaxy?</p>	<p>0</p>	<p>Define and describe the size and shape of the Milky Way galaxy. Recognize that galaxies are made of billions of stars and compose most of the visible mass of the universe. Describe the evolution and life cycle of galaxies. Describe relationships between a solar system, a galaxy, and the universe. Recognize that galaxies are made of billions of stars and comprise most of the visible mass of the universe.</p>
<p>Unit 4: Astronomy Lesson 26: The Big Bang Theory</p>	<p>0</p>	<p>Define and explain the big bang theory. Explain evidence for the age and expansion of the universe.</p>

<p>Unit 4: Astronomy Lesson 27: Review What's a Galaxy and The Big Bang Theory</p>	<p>0</p>	<p>Define and describe the size and shape of the Milky Way galaxy. Describe the evolution and life cycle of galaxies. Describe relationships between a solar system, a galaxy, and the universe. Define and explain the big bang theory. Explain evidence for the age and expansion of the universe. Recognize that galaxies are made of billions of stars and comprise most of the visible mass of the universe.</p>
<p>Unit 4: Astronomy Lesson 28: Your Choice</p>	<p>0</p>	<p>0</p>
<p>Unit 4: Astronomy Lesson 29: Unit Test</p>	<p>HS-ESS1-1, HS-ESS1-2, HS-ESS1-3, HS-ESS1-4, HS-PS1-8</p>	<p>0</p>
<p>Unit 5: The Earth's Resources Lesson 1: Earth's Natural Resources</p>	<p>0</p>	<p>Identify natural resources on the earth. Define and give examples of nonrenewable resources on earth. Define and give examples of renewable resources on earth. Identify natural resources on earth.</p>
<p>Unit 5: The Earth's Resources Lesson 2: Renewable vs. Nonrenewable Resources</p>	<p>0</p>	<p>Compare and contrast the availability and use of nonrenewable versus renewable resources. Discuss how the use of renewable and nonrenewable resources affects the quality of human life. Compare and contrast the availability and use of nonrenewable vs. renewable resources.</p>
<p>Unit 5: The Earth's Resources Lesson 3: Review Earth's Natural Resources and Renewable vs. Nonrenewable</p>	<p>0</p>	<p>Identify natural resources on the earth. Discuss how the use of renewable and nonrenewable resources affects the quality of human life. Compare and contrast the availability and use of nonrenewable vs. renewable resources. Define and give examples of nonrenewable resources on the earth. Define and give examples of renewable resources on the earth.</p>
<p>Unit 5: The Earth's Resources Lesson 4: Environmental Issues</p>	<p>0</p>	<p>Discuss the following situations that involve natural resources: development of alternative forms of energy, storage of nuclear waste, abandoned mines, greenhouse gases in the atmosphere, and disposal of hazardous waste.</p>

		Discuss these situations that involve natural resources: development of alternative forms of energy, storage of nuclear waste, abandoned mines, greenhouse gases in the atmosphere, and disposal of hazardous waste.
Unit 5: The Earth's Resources Lesson 5: Review Environmental Issues	0	Discuss these situations that involve natural resources: development of alternative forms of energy, storage of nuclear waste, abandoned mines, greenhouse gases in the atmosphere, and disposal of hazardous waste.
Unit 5: The Earth's Resources Lesson 6: Laboratory: Air Pollution Watch	0	Design an experiment that tests the level of air pollution.
Unit 5: The Earth's Resources Lesson 7: Water Resources	0	Explain the importance of water for human survival and society. Evaluate the impact of natural and man-made influences on the availability of clean water. Discuss specific methods that address water pollution problems.
Unit 5: The Earth's Resources Lesson 8: Review Air Pollution Watch and Water Resources	0	Explain the importance of water for human survival and society. Evaluate the impact of natural and man-made influences on the availability of clean water. Discuss specific methods that address water pollution problems. Design an experiment that tests the level of air pollution.
Unit 5: The Earth's Resources Lesson 9: Humans and the Environment	0	Explain the impact of smoke, volcanic dust, and urban development on the quality of our environment. Describe living and nonliving factors in the environment that affect humans.
Unit 5: The Earth's Resources Lesson 10: Conservation	0	Given a scenario, determine the effectiveness of specific conservation practices on the quality of the environment.
Unit 5: The Earth's Resources Lesson 11: Review Humans and the Environment and Conservation	0	Explain the impact of smoke, volcanic dust, and urban development on the quality of our environment. Given a scenario, determine the effectiveness of specific conservation practices on the quality of the environment. Describe living and nonliving factors in the environment that affect humans.

Unit 5: The Earth's Resources Lesson 12: Your Choice	0	0
Unit 5: The Earth's Resources Lesson 13: Unit Test	HS-ESS2-7, HS-ESS3-1-6, HS-ESS3-1, HS-ESS3-2, HS-ESS3-3, HS-ESS3-4, HS-ESS3-6, HS-ETS1-4, HS-ETS1-5	0
Unit 6: Semester 2 Review and Test Lesson 1: Semester 2 Review	0	0
Unit 6: Semester 2 Review and Test Lesson 2: Your Choice	0	0
Unit 6: Semester 2 Review and Test Lesson 3: Your Choice	0	0
Unit 6: Semester 2 Review and Test Lesson 4: Semester 2 Test	0	0