

Great Basin Outdoor School

Spring / Fall Curriculum

Alignment with Next Generation Science Standards



Getting Connected

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Web of Life	5-PS1 Matter and Its Interactions 5-PS3 Energy 5-LS1 From Molecules to Organisms: Structures and Processes 5-LS2 Ecosystems: Interactions, Energy, and Dynamics 5-ESS2 Earth's Systems 5-ESS3 Earth and Human Activity	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.	SEP1 Asking Questions and Defining Problems SEP2 Developing and Using Models SEP6 Constructing Explanations and Designing Solutions SEP7 Engaging in Argument from Evidence SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC2 Cause and Effect CC5 Energy and Matter CC7 Stability and Change

Life Sciences - 1

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Meet a Tree	5-PS1 Matter and Its Interactions	5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP4 Analyzing and interpreting data SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC6 Structure and Function
Build a Tree	5-PS1 Matter and its Interactions 5-PS2 Motion and Stability: Forces and interactions 5-PS3 Energy 5-LS1 From Molecules to Organisms: Structures and Processes 5-LS2 Ecosystems: Interactions, energy, and Dynamics 5-ESS2 Earth's Systems	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down. 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2 Developing and using Models SEP8 Obtaining, Evaluating, and Communicating Information	CC4 Systems and System Models CC5 Energy & Matter CC6 Structure and Function
Race to the Sun	5-PS1 Matter and its interactions 5-PS3 Energy 5-LS1 From Molecules to Organisms: Structures & Processes 5-LS2 Ecosystems: Interactions, energy, and Dynamics 5-ESS2 Earth's Systems	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2 Developing and using Models SEP8 Obtaining, Evaluating, and Communicating Information	CC2 Cause & Effect CC4 Systems and System Models CC5 Energy & Matter CC7 Stability & Change

Life Sciences - 2

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Haiku	Any - varies with student	Any - varies with student	SEP2 Developing and using Models SEP6 Constructing Explanations and Designing Solutions SEP8 Obtaining, Evaluating, and Communicating Information	Any - varies with student
Jays and Chickadees	5-PS3 Energy 5-LS2 Ecosystems: Interactions, Energy, and Dynamics	5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP1 Asking Questions and Defining Problems SEP6 Constructing Explanations and Designing Solutions	CC2 Cause & Effect CC5 Energy & Matter CC6 Structure and Function
Oh Deer!	5-LS2 Ecosystems: Interactions, Energy, and Dynamics 5-ESS2 Earth's Systems	5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2 Developing and Using Models SEP4 Analyzing and interpreting data SEP5 Using Mathematics and Computational Thinking SEP6 Constructing Explanations and Designing Solutions SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC4 Systems and System Models CC7 Stability and Change

Life Sciences - 3

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Camouflage (The Thicket Game, Predator!)	5-LS2 Ecosystems: Interactions, Energy, and Dynamics 5-ESS2 Earth's Systems	5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP1 Asking Questions and Defining Problems SEP6 Constructing Explanations and Designing Solutions	CC1 Patterns CC2 Cause and Effect CC6 Structure and Function
Life Cycle of a Tree	5-PS3 Energy 5-LS1 From Molecules to Organisms: Structures and Processes 5-LS2 Ecosystems: Interactions, energy, and Dynamics	5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2 Developing and using Models	CC5 Energy & Matter CC6 Structure and Function CC7 Stability & Change
Tree Visualization	5-PS3 Energy 5-LS1 From Molecules to Organisms: Structures and Processes 5-LS2 Ecosystems: Interactions, energy, and Dynamics	5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun. 5-LS1-1. Support an argument that plants get the materials they need for growth chiefly from air and water. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP2 Developing and using Models	CC5 Energy & Matter CC6 Structure and Function CC7 Stability & Change
Burning Embers	5-ESS2 Earth's Systems 5-ESS3 Earth and Human Activity 3-5-ETS1 Engineering Design	5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	SEP1 Asking Questioning and Defining Problems SEP2 Developing and Using Models SEP8 Obtaining, Evaluating, and Communicating Information	CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC7 Stability & Change

Life Sciences - 4

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
What Makes a Bird a Bird?	5-PS1 Matter and Its Interactions 5-ESS2 Earth's Systems	5-PS1-3. Make observations and measurements to identify materials based on their properties. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC6 Structure and Function
The FBI	5-PS1 Matter and its interactions 5-LS2 Ecosystems: Interactions, energy, and Dynamics 5-ESS2 Earth's Systems	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP1 Asking Questioning and Defining Problems SEP2 Developing and Using Models SEP6 Constructing Explanations and Designing Solutions SEP8 Obtaining, Evaluating, and Communicating Information	CC4 Systems and System Models CC5 Energy & Matter CC7 Stability & Change
Bat and Moth	5-LS2 Ecosystems: Interactions, energy, and Dynamics	5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC4 Systems and System Models CC5 Energy & Matter CC6 Structure and Function

Aquatic Ecology - 1

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Watershed Model	<p>5-PS1 Matter and its interactions</p> <p>5-PS 2 Motion and Stability: Forces and Interactions</p> <p>5-LS2 Ecosystems: Interactions, Energy, & Dynamics</p> <p>5-ESS2 Earth's Systems</p> <p>5-ESS3 Earth and Human Activity</p> <p>3-5-ETS1 Engineering Design</p>	<p>5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen.</p> <p>5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p>5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p> <p>5-ESS2-2. Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.</p> <p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p> <p>3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</p> <p>3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>SEP1 Asking Questioning and Defining Problems</p> <p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP7 Engaging in Argument from Evidence</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC4 Systems and System Models</p> <p>CC5 Energy and Matter</p> <p>CC7 Stability and Change</p>
Bear, Salmon, Mosquito	<p>5-PS3 Energy</p> <p>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</p>	<p>5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.</p> <p>5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC4 Systems and System Models</p> <p>CC5 Energy and Matter</p> <p>CC6 Structure and Function</p>

Aquatic Ecology - 2

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Just Passing Through	<p>5-PS1 Matter and its interactions</p> <p>5-PS2 Motion and Stability: Forces and interactions</p> <p>5-LS2 Ecosystems: interactions, Energy, and Dynamics</p> <p>5-ESS2 Earth's Systems</p> <p>5-ESS3 Earth and Human Activity</p>	<p>5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen.</p> <p>5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p>5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p> <p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p>	<p>SEP1 Asking Questioning and Defining Problems</p> <p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC5 Energy and Matter</p> <p>CC6 Structure and Function</p> <p>CC7 Stability and Change</p>
Drop in a Bucket	<p>5-PS1 Matter and its interactions</p> <p>5-PS2 Motion and Stability: Forces and interactions</p> <p>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</p> <p>5-ESS2 Earth's Systems</p> <p>5-ESS3 Earth and Human Activity</p>	<p>5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen.</p> <p>5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p>5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p> <p>5-ESS2-2. Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.</p> <p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP4 Analyzing and interpreting data</p> <p>SEP5 Using Mathematics and Computational Thinking</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC3 Scale, Proportion, and Quantity</p> <p>CC4 Systems and System Models</p> <p>CC5 Energy and Matter</p> <p>CC7 Stability and Change</p>

Aquatic Ecology - 3

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Incredible Journey	5-PS1 Matter and its interactions 5-PS2 Motion and Stability: Forces and interactions 5-LS2 Ecosystems: Interactions, Energy, and Dynamics 5-ESS2 Earth's Systems	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down. 5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS2-2. Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.	SEP2 Developing and Using Models SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC4 Systems and System Models CC5 Energy and Matter CC7 Stability and Change

Geology - 1

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Oreo Plate Tectonics	5-PS2 Motion and Stability: Forces and Interactions 5-ESS2 Earth's Systems	5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down. 5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	SEP2 Developing and Using Models SEP6 Constructing Explanations and Designing Solutions	CC1 Patterns CC2 Cause and Effect CC5 Energy and Matter CC6 Structure and Function CC7 Stability and Change
M&M Earth Layers	5-PS1 Matter and Its Interactions	5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC3 Scale, Proportion, and Quantity CC4 Systems and System Models CC6 Structure and Function
Everybody Needs a Rock/ Find a Special Rock	5-PS1 Matter and Its Interactions	5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC6 Structure and Function
Know your Rock	5-PS1 Matter and its interactions	5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP4 Analyzing and interpreting data SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC6 Structure and Function

Geology - 2

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
<p>Great Basin / Basin & Range</p>	<p>5-PS2 Motion and Stability: Forces and interactions</p> <p>5-ESS2 Earth's Systems</p>	<p>5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC3 Scale, Proportion, and Quantity</p> <p>CC5 Energy and Matter</p> <p>CC6 Structure and Function</p> <p>CC7 Stability and Change</p>
<p>Play-Doh Rock Types</p>	<p>5-PS1 Matter and its interactions</p> <p>5-ESS2 Earth's Systems</p>	<p>5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen.</p> <p>5-PS1-3. Make observations and measurements to identify materials based on their properties.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC4 Systems and System Models</p> <p>CC6 Structure and Function</p> <p>CC7 Stability and Change</p>

Geology - 3

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Minerals in Granite	5-PS1 Matter and Its Interactions	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC3 Scale, Proportion, and Quantity CC6 Structure and Function
Mineral Testing	5-PS1 Matter and Its Interactions	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC3 Scale, Proportion, and Quantity CC6 Structure and Function
Mineral Tag	5-PS1 Matter and Its Interactions	5-PS1-1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS1-3. Make observations and measurements to identify materials based on their properties.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC3 Scale, Proportion, and Quantity CC6 Structure and Function CC7 Stability and Change

Astronomy - 1

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Play-Doh Planets	5-ESS1 Earth's Place in the Universe	<p>5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.</p> <p>5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP4 Analyzing and interpreting data</p> <p>SEP5 Using Mathematics and Computational Thinking</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC3 Scale, Proportion, and Quantity</p> <p>CC4 Systems and System Models</p> <p>CC6 Structure and Function</p>
Moon Phases	5-ESS1 Earth's Place in the Universe	<p>5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.</p> <p>5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.</p>	<p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP7 Engaging in Argument from Evidence</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC4 Systems and System Models</p> <p>CC7 Stability and Change</p>
Reasons for the Seasons	<p>5-ESS1 Earth's Place in the Universe</p> <p>5-ESS2 Earth's Systems</p>	<p>5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.</p> <p>5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.</p> <p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p>	<p>SEP1 Asking Questioning and Defining Problems</p> <p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP8 Obtaining, Evaluating, and Communicating</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC5 Energy and Matter</p> <p>CC6 Structure and Function</p> <p>CC7 Stability and Change</p>

Astronomy - 2

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Expanding Universe Song	5-ESS1 Earth's Place in the Universe	5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.	SEP1 Asking Questioning and Defining Problems SEP6 Constructing Explanations and Designing Solutions SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC6 Structure and Function CC7 Stability and Change
Constellation Skit	5-ESS1 Earth's Place in the Universe	5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth. 5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP1 Asking Questioning and Defining Problems SEP2 Developing and Using Models SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns
Constellation Viewing	5-PS1 Matter and Its Interactions 5-ESS1 Earth's Place in the Universe	5-PS1-3. Make observations and measurements to identify materials based on their properties. 5-ESS1-1. Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth. 5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	SEP1 Asking Questioning and Defining Problems SEP2 Developing and Using Models SEP4 Analyzing and interpreting data SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC3 Scale, Proportion, and Quantity CC4 Systems and System Models CC7 Stability and Change

Resource Action - 1

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Ort Report	<p>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</p> <p>5-ESS3 Earth and Human Activity</p>	<p>5-LS2-1. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p> <p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p>	<p>SEP4 Analyzing and interpreting data</p> <p>SEP5 Using Mathematics and Computational Thinking</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC2 Cause and Effect</p> <p>CC3 Scale, Proportion, and Quantity</p> <p>CC5 Energy and Matter</p>
This is Your Life	<p>5-ESS2 Earth's Systems</p> <p>5-ESS3 Earth and Human Activity</p> <p>3-5-ETS1 Engineering Design</p>	<p>5-ESS2-1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p> <p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p> <p>3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</p> <p>3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>SEP1 Asking Questioning and Defining Problems</p> <p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC2 Cause and Effect</p> <p>CC3 Scale, Proportion, and Quantity</p> <p>CC4 Systems and System Models</p> <p>CC7 Stability and Change</p>
Shrinking Habitat	<p>5-ESS3 Earth and Human Activity</p> <p>3-5-ETS1 Engineering Design</p>	<p>5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p> <p>3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</p> <p>3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.</p>	<p>SEP1 Asking Questioning and Defining Problems</p> <p>SEP2 Developing and Using Models</p> <p>SEP6 Constructing Explanations and Designing Solutions</p> <p>SEP8 Obtaining, Evaluating, and Communicating Information</p>	<p>CC1 Patterns</p> <p>CC2 Cause and Effect</p> <p>CC4 Systems and System Models</p> <p>CC7 Stability and Change</p>

Resource Action - 2

Activity	Disciplinary Core Ideas	Performance Expectations	Science & Engineering Practices	Crosscutting Concepts
Fishing Sustainability Game	5-ESS3 Earth and Human Activity 3-5-ETS1 Engineering Design	5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth’s resources and environment. 3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	SEP1 Asking Questioning and Defining Problems SEP5 Using Mathematics and Computational Thinking	CC2 Cause and Effect CC5 Energy and Matter
Letter from Mother Earth	5-ESS3 Earth and Human Activity 3-5-ETS1 Engineering Design	5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth’s resources and environment. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	SEP1 Asking Questioning and Defining Problems SEP8 Obtaining, Evaluating, and Communicating Information	CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC7 Stability and Change
Stewardship Project	5-ESS3 Earth and Human Activity 3-5-ETS1 Engineering Design	5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth’s resources and environment. 3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	SEP1 Asking Questioning and Defining Problems SEP6 Constructing Explanations and Designing Solutions SEP8 Obtaining, Evaluating, and Communicating Information	CC1 Patterns CC2 Cause and Effect CC3 Scale, Proportion, and Quantity CC7 Stability and Change