

Colorado Environmental Science Course Scope and Sequence

<b>Course Name</b>	<b>System Interactions</b>	<b>Course Details</b>  <b>Course = 0.50 Carnegie Unit Credit</b>	This is a level 2 course options to begin the Environmental Science pathway.	
<b>Course Description</b>	Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course.			
<b>Note:</b>	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all essential knowledge and skills are covered.			
SCED Identification #	Schedule calculation based on 60% of a semester instructional time. Scope and sequence allows for additional time for guest speakers, student presentations, field trips, remediation, or other content topics.			
All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at <a href="https://www.cde.state.co.us/standardsandinstruction/essentialskills">https://www.cde.state.co.us/standardsandinstruction/essentialskills</a>				
Unit Number, Title and Brief Description	CTE or Academic Standard Alignment	Competency / Performance Indicator	Outcome / Measurement	CTSO Integration
<b>1. Conservation, Preservation, &amp; Exploitation</b>	<p>NRS.1.0 Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.</p> <p>HS-LS2-1 Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.</p> <p>HS-LS2-2 Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems at different scales.</p> <p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS.1.02 Classify different types of natural resources in order to enable protection, conservation, enhancement, and management in particular geographical regions.</p> <p><a href="#">RST.11-12.1</a>  <a href="#">RST.11-12.7</a>  <a href="#">RST.11-12.8</a>  <a href="#">WHST.9-10.2</a>  <a href="#">WHST.11-12.2</a>  <a href="#">WHST.9-10.7</a>  <a href="#">WHST.11-12.7</a>  <a href="#">WHST.9-10.9</a>  <a href="#">WHST.11-12.9</a></p> <p><a href="#">MA.HS.N.Q.A</a></p>	<p>NRS.01.02.06.a Research the purpose and value of resource inventories and population studies.</p> <p>NRS.01.02.06.b Apply procedure for conducting resource inventories and population studies.</p>	

		<p>NRS.02.01.01.a Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
<p><b>2. Soils &amp; the land</b></p>	<p>1.0 Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.</p> <p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS1.02 Classify different types of natural resources in order to enable protection, conservation, enhancement, and management in particular geographical regions.</p> <p><a href="#">RST.11-12.1</a>  <a href="#">RST.11-12.7</a>  <a href="#">RST.11-12.8</a>  <a href="#">WHST.9-10.2</a>  <a href="#">WHST.11-12.2</a>  <a href="#">WHST.9-10.7</a>  <a href="#">WHST.11-12.7</a>  <a href="#">WHST.9-10.9</a>  <a href="#">WHST.11-12.9</a></p> <p><a href="#">MA.HS.N.Q.A</a></p>	<p>NRS.01.02.05a Research and examine the characteristics used to identify resources (e.g. soil, types, climate, and geography).</p> <p>NRS.01.05.04.a Compare and contrast techniques associated with soil management (e.g. soil survey and interpretation, erosion, control, etc)</p> <p>NRS.01.05.04.b Analyze a plot of land in order to determine which soil management techniques would be most applicable.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p>

		<p>NRS.01.05 Apply ecological concepts and principles of terrestrial natural resource systems.  <a href="#">RST.11-12.1</a>  <a href="#">RST.11-12.7</a>  <a href="#">RST.11-12.8</a></p> <p><a href="#">MA.HS.S.ID.A</a>  <a href="#">MA.HS.S.IC.A</a>  <a href="#">MA.HS.S.IC.B</a></p> <p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
<b>3. Water</b>	<p>NRS.1.0 Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.</p>	<p>NRS 01.04 Apply ecological concepts and principles to aquatic natural resources systems.  <a href="#">RST.11-12.1</a>  <a href="#">RST.11-12.7</a>  <a href="#">RST.11-12.8</a>  <a href="#">WHST.9-10.7</a>  <a href="#">WHST.11-12.7</a></p> <p><a href="#">MA.HS.N.Q.A</a>  <a href="#">MA.HS.S.ID.A</a>  <a href="#">MA.HS.S.IC.A</a>  <a href="#">MA.HS.S.IC.B</a></p>	<p>NRS.01.04.01.a Summarize the roles and properties of watershed.</p> <p>NRS.01.04.01.b Assess the function of watersheds and their effect on natural resources.</p> <p>NRS.01.04.02.a Examine and describe the importance of groundwater and surface water to natural resources.</p> <p>NRS.01.04.02.b Analyze how different classifications of ground and surface water affect ecosystem function.</p>	

	<p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.01.04.03.a Compare and contrast riparian zones and riparian buffers based on their functions.</p> <p>NRS.01.04.03.b Assess techniques used in the creation, enhancement, and management of riparian zones and riparian buffers.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
<p><b>4. Air</b></p>	<p>NRS 1.0 Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.</p>	<p>NRS.01.03 Apply ecological concepts and principles to atmospheric natural resource systems.</p> <p><a href="#">RST.11-12.1</a></p> <p><a href="#">RST.11-12.7</a></p> <p><a href="#">RST.11-12.8</a></p> <p><a href="#">MA.HS.N.Q.A</a></p>	<p>NRS.01.03.01.a Classify different kinds of biogeochemical cycles and the role they play in natural resource systems.</p> <p>NRS.01.03.01.b Assess the role that the atmosphere plays in the regulation of biogeochemical cycles.</p>	

	<p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p><i>MA.HS.S.ID.A</i> <i>MA.HS.S.IC.A</i> <i>MA.HS.S.IC.B</i></p> <p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.01.03.02.a Research and summarize how climate factors influence natural resource systems.</p> <p>NRS.01.03.02.b Analyze the impact that climate has on natural resources and debate how this impact has changed due to human activity.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
<p><b>5. Earth's Energy</b></p>	<p>NRS.03 Develop plans to ensure sustainable production and processing of natural resources.</p>	<p>NRS.03.01 Sustainably produce, harvest, process, and use natural resource products (e.g. forest products, wildlife, minerals, fossil fuels, shale oil, alternative energy, recreation, aquatic species, etc)</p>	<p>NRS.03.01.06.a Compare and contrast the costs and benefits (e.g. environmental impacts, etc) of alternative sources of energy (e.g. hydroelectric, solar, wind, biofuels, geothermal)</p> <p>NRS.03.01.06.b Assess and evaluate factors that affect the economic, environmental, and</p>	

	<p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p><i>RST.11-12.8</i></p> <p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>social sustainability in regards to the use of alternative sources of energy.</p> <p>NRS.03.01.06.c Assess trends in energy production and consumption in order to predict how the impact of alternative energy will change in the future.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
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<p><b>6. Flora &amp; Fauna</b></p>	<p>NRS 1.0 Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.</p> <p>HS-LS-2-5 Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.</p> <p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS.01.05 Apply ecological concepts and principles of terrestrial natural resource systems.  <a href="#">RST.11-12.1</a>  <a href="#">RST.11-12.7</a>  <a href="#">RST.11-12.8</a></p> <p><a href="#">MA.HS.S.ID.A.</a>  <a href="#">MA.HS.S.IC.A</a>  <a href="#">MA.HS.S.IC.B</a></p> <p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.01.05.01.a Research and describe the stages of ecological succession.</p> <p>NRS.01.05.01.b Analyze and summarize examples of stages of succession.</p> <p>NRS.01.05.02.a Compare and contrast the impact of habitat disturbances and habitat resilience.</p> <p>NRS.01.05.02.b Analyze and summarize examples of habitat disturbances and habitat resilience.</p> <p>NRS.01.05.03.a Compare and contrast techniques associated with sustainable forestry (e.g. timber stand improvement, diversity improvement, reforestation, etc)</p> <p>NRS.01.05.03.b Analyze a forest in order to determine which forestry techniques would improve that habitat.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p>	
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			<p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
<p><b>7. Farming &amp; Forestry</b></p>	<p>NRS.02 Apply scientific principles to natural resource management activities.</p> <p>NRS.03 Applies knowledge of natural resources to production and processing industries.</p> <p>NRS.04 Demonstrate techniques used to protect natural resources.</p> <p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p> <p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p>	

			NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.	
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<p><b>8. Human Impacts</b></p>	<p>NRS.2.0 Analyze the interrelationships between natural resources and humans.</p> <p>HS-LS2-7 Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.*</p> <p>HS-LS4-6 Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.*</p> <p>HS-ESS3-3. Create a computational simulation to illustrate the relationships among the management of natural resources, the sustainability of human populations, and biodiversity.</p> <p>HS-ESS3-4. Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.*</p> <p>HS-ESS3-6. Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.</p> <p>NRS.02 Analyze the interrelationships between natural resources and humans.</p>	<p>NRS.2.02 Assess the impact of human activities on the availability of natural resources.</p> <p>NRS.02.01 Examine and interpret the purpose, enforcement, impact, and effectiveness of laws and agencies related to natural resource management, protection, enhancement, and improvement (e.g. water</p>	<p>NRS.02.02.01.a Summarize the relationship between natural resources, ecosystems, and human activity.</p> <p>NRS.02.02.01.b Assess and explain how different kinds of human activity affect the use and availability of natural resources (i.e. agriculture, industry, transportation, etc)</p> <p>NRS.02.02.02.a Categorize the primary causes of extinction of living species due to human activity (e.g. overharvesting, habitat loss, invasive species, pollution, etc)</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p> <p>NRS.02.02.03.a Examine and describe the manner in which modern lifestyles are related to the depletion of natural resources.</p> <p>NRS.02.02.03.b Identify solutions to improve the sustainability of modern lifestyles.</p> <p>NRS.02.01.01.a Distinguish between the types of laws associated with natural resource systems.</p> <p>NRS.02.01.01.b Analyze the structure of laws associated with natural resource systems.</p>	
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		<p>regulation, game laws, historic preservation laws, environmental policy, etc)</p> <p>NRS.02.03 Analyze how modern perceptions of natural resource management, protection, enhancement, and improvement change and develop over time.</p>	<p>NRS.02.01.02.a Distinguish between types of agencies associated with natural resource systems.</p> <p>NRS.02.01.02.b Analyze the specific purpose of agencies associated with natural resource systems.</p> <p>NRS.02.03.01.a Summarize and categorize the different social considerations in regards to the use of natural resources (e.g. public vs private, laws and regulations, economics, green technology, etc)</p> <p>NRS.02.03.01.b Analyze how social consideration can affect the use and sustainability of natural resources.</p> <p>NRS.02.02.02.b Assess causes of extinction and describe how those causes related to loss of biodiversity.</p>	
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<p><b>9. Mining and extraction</b></p>	<p>NRS.02 Analyze the interrelationships between natural resources and humans.</p> <p>NRS.03 Develop plans to ensure sustainable production and processing of natural resources.</p>	<p>NRS.02.02 Assess the impact of human activities on the availability of natural resources.</p> <p>NRS.02.04 Examine and explain how economics affects the use of natural resources.</p> <p>NRS.03.01 Sustainably produce, harvest, process and use natural resource products (e.g. forest products, wildlife, minerals, fossil fuels, shale oil, alternative energy, recreation, aquatic species, etc)</p>	<p>NRS.02.02.01.a Summarize the relationship between natural resources, ecosystems, and human activity.</p> <p>NRS.02.04.01.a Compare and contrast how the economic value of a natural resource affects its availability.</p> <p>NRS.03.01.03.a Compare and contrast the costs and benefits (e.g. impacts on environmental, economic, wildlife, etc) of mineral extraction to a local, state, and/or national economy.</p> <p>NRS.03.01.03.b Assess the economic impact of mineral extraction in regards to the costs and benefits to a local, state, and/or national economy.</p> <p>NRS.03.01.03.c Evaluate methods used to extract and process minerals for economic, environmental, and social sustainability.</p>	
<p><b>10. System Interactions</b></p>	<p>HS-ESS3-6 Use computational representation to illustrate the relationship among Earth's systems and how those relationships are being modified due to human activity.</p>			

**CAS Academic Standards Alignment:** Online Version: <https://www.cde.state.co.us/apps/standards/>; Download version: <https://www.cde.state.co.us/apps/standards/>

**Reading, Writing, and Communicating: Science & Technical Subjects**

- RST11-12.1 Cite specific textual evidence to support analysis of science and technical texts, attending to important distinction the author makes and to any gaps or inconsistencies in the account.
- RST9-10.2 Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.
- RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g. quantitative data, video, multimedia) in order to address a question or solve a problem.
- RST.11-12.8 Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

- · WHST9-10.2/11-12.2 Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
- · WHST9-10.7/11-12.7 Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.
- WHST9-10.9/11-12.9 Draw evidence from informational texts to support analysis, reflection, and research.

#### **Math:**

- MA.HS.S.ID.A Interpreting Categorical & Quantitative Data: Summarize, represent, and interpret data on a single count or measurement variable.
- MA.HS.S.IC.A Making Inferences & Justifying Conclusions; Understand and evaluate random processes underlying statistical experiments.
- MA.HS.S.IC.B Making Inferences & Justifying Conclusions: Make inferences and justify conclusions from sample surveys, experiments, and observational studies.
- MA.HS.N-Q.A – Quantities: Reason quantitatively and use units to solve problems..

#### **Essential Skills:**

##### Problem Solver:

- Critical Thinking and Analysis: The ability to apply a deliberate process of identifying problems, gathering information, and weighing possible solutions, including: making choices rooted in understanding patterns, cause-and-effect relationships, and the impacts that a decision can have on the individual and others.
- Creativity and innovation: the ability to demonstrate curiosity and imagination through experimenting with new and emerging ideas.

##### Community Member:

- Social Awareness: the ability to understand the perspectives of, empathize with, feel compassion for, and recognize strengths in others, including those from diverse backgrounds, cultures, and contexts and how they affect social interactions.
- Civic Engagement: The ability to develop and apply knowledge, skills, and habits gained from experiences – within communities of diverse perspectives – to address issues, affect change, and/or solve problems.
- Global and cultural awareness: the ability to collaborate with individuals from diverse backgrounds and/or cultures to address national and global issues, and to develop complex, appropriate, and workable solutions.

##### Communicator:

- Interpersonal communication: the ability to establish and maintain healthy and supportive relationships, including: the capacity to communicate clearly by successfully conveying information and feelings, listening actively, setting boundaries, negotiating conflict constructively, and seeking or offering support and help when needed.

##### Empowered Individual:

- Self-Awareness: the ability to understand one's own emotions, thoughts, and values, and how personal actions and emotions influence behavior across contexts, including: the capacity to recognize one's strength and limitations with a well-grounded sense of confidence and purpose.

· Career Awareness: The ability to apply the knowledge and understanding of how one's dreams, experiences, and interests translate into career fulfillment and lifelong pursuits in local, regional, national, and global career pathways and opportunities.