



Theme: Sustainability (Grades 9-12)

Nevada State Standards

English Language Arts

- 3.12.3 Analyze a theme based on evidence.
- 3.12.7 Analyze the influence of historical events and culture.
- 3.12.8 Make and revise predictions based on evidence.
- 3.12.9 Make connections to self, other text, and/or world.
- 4.12.3 Analyze a theme based on evidence.
- 4.12.5 Make connections to self, other text, and/or world.
- 4.12.6 Make and revise predictions based on evidence.
- 4.12.7 Read and follow directions to complete tasks or procedures.
- 5.12.1 Use prewriting strategies to plan written work.
- 6.12.7 Write a variety of communications in appropriate formats.
- 7.12.1 Listen for a variety of purposes including: gaining information, being entertained and understanding directions.
- 7.12.2 Listen to and evaluate oral communications for content, delivery, point of view, ideas, purpose, and value.
- 7.12.3 Expand vocabulary through listening.
- 7.12.5 Actively listen to oral communications.
- 8.12.2 Use precise language to describe and elicit feelings, experiences, observations and ideas.
- 8.12.4 Participate in conversations to solve problems by identifying, synthesizing and evaluating data.

Mathematics

- 3.12.3 Select and use appropriate measurement tools, techniques and formulas to solve problems in mathematical and practical situations.
- 4.12.8 Solve problems by drawing and/or constructing geometric figures to demonstrate geometric relationships.
- 5.12.2 Select and apply appropriate statistical measures in mathematical and practical situations.

Science

- N.12.A.1 Students know tables, charts, illustrations and graphs can be used in making arguments and claims in oral and written presentations.

- N.12.B.1 Students know science, technology, and society influenced one another in both positive and negative ways.
- N.12.B.2 Students know consumption patterns, conservation efforts, and cultural or social practices in countries have varying environmental impacts.
- N.12.B.4 Students know scientific knowledge builds on previous information.
- E.12.A.1 Students know the Sun is the major source of Earth's energy, and provides the energy driving Earth's weather and climate.
- E.12.A.2 Students know the composition of Earth's atmosphere has changed in the past and is changing today.
- E.12.A.3 Students understand the role of the atmosphere in Earth's greenhouse effect.
- E.12.C.3 Students know elements exist in fixed amounts and move through solid earth, oceans, atmosphere and living things as part of biogeochemical cycles.
- E.12.C.4 Students know processes of obtaining, using, and recycling of renewable and non-renewable resources.
- P.12.C.2 Students know energy forms can be converted.
- P.12.C.5 Students know the relationship between heat and temperature.
- P.12.C.6 Students know electricity is transferred from generating sources for consumption and practical uses.
- L.12.C.1 Students know relationships of organisms and their physical environment.
- L.12.C.2 Students know how changes in an ecosystem can affect biodiversity and biodiversity's contribution to an ecosystem's stability.
- L.12.C.3 Students know the amount of living matter an environment can support is limited by the availability of matter, energy, and the ability of the ecosystem to recycle materials.

Social Studies

Civics

- 13.(9-12).7 Analyze and evaluate the role of citizen participation in civic life.
- 13.(9-12).9 Examine the responsibilities of local, state, and national citizenship.

Geography

- 6.(9-12).1 Determine how relationships between humans and the physical environment lead to the development of and connections among places and regions.
- 6.(9-12).2 Explain why characteristics of a place change.
- 6.(9-12).3 Apply the concept of region to organize and study a geographic issue.
- 6.(9-12).4 Analyze selected historical issues, demographics, and questions using the geographic concept of regions.
- 8.(9-12).1 Analyze how changes in the physical environment can increase or diminish its capacity to support human activity.

- 8.(9-12).2 Describe the ways in which technology has affected the human capacity to modify the physical environment and evaluate possible regional and global impact.
- 8.(9-12).3 Develop possible responses to changes caused by human modification of the physical environment.
- 8.(9-12).4 Analyze human perception and reaction to natural hazards including use, distribution, and importance of resources.
- 8.(9-12).5 Analyze patterns of use, the changing distribution, and relative importance of Earth's resources.

Economics

- 9.(9.12).1 Analyze **choices** and **incentive** systems used by parents, teachers, employers and government using the concepts of:
Total benefits and opportunity costs
Impact of marginal costs and marginal benefits
Effectiveness
- 9.(9.12).2 Analyze how consumers adjust their purchases in response to price changes using the concept of price elasticity.