

Spanish Fork High School 2014-2015

Learning Objectives for

Natural Resource Management

UNIT 1: I CAN explain the role of FFA and SAE in agricultural education.

Natural Resource Science I: Standards 1 & 2

- I CAN list important dates in FFA history
- I CAN identify and describe FFA basics (colors, motto, creed, emblem, mission statement, and officers)
- I CAN identify opportunities available to me through FFA.
- I CAN plan an SAE program.
- I CAN keep records for an SAE program.

UNIT 2: I CAN examine natural resource science and management.

Natural Resource Science I: Standard 3

- I CAN identify types of natural resources and their characteristics
- I CAN describe humans needs and uses of natural resources
- I CAN describe the relationship between natural resources and society

UNIT 3: I CAN describe biological, physical, and chemical properties of soil.

Natural Resource Science I: Standard 4, Objective 2

- I CAN explain the importance of soil
- I CAN describe and examine the characteristics of soil
- I CAN test and determine soil particles
- I CAN describe different types of soil erosion

UNIT 4: I CAN relate range resources and management to natural resources.

Natural Resource Science I: Standard 5

- I CAN evaluate rangeland and identify methods for improvement
- I CAN compare and contrast the uses of rangeland
- I CAN explain range transects and their use.
- I CAN discuss the use of livestock and wildlife on rangeland

UNIT 5: I CAN explain land classification, resource inventories, and monitoring methods.

Natural Resource Science I: Standard 7

- I CAN demonstrate use of GPS/GIS.
- I CAN describe how land use planning affects natural resources
- I CAN use a soil survey to determine uses of land
- I CAN develop a plan for land use
- I CAN analyze a current Environmental Impact Statement

UNIT 6: I CAN examine waste management.

Natural Resource Science I: Standard 6

- I CAN describe different types of wastes and hazards created
- I CAN explain waste management methods
- I CAN diagram the steps in wastewater treatment
- I CAN brainstorm methods of reducing, reusing, and recycling.
- I CAN describe waste generations impact on natural resources

UNIT 7: I CAN identify career opportunities in natural resource science.

Natural Resource Science I: Standard 3, Objective 3

- I CAN identify career opportunities in natural resources
- I CAN identify the major areas of natural resources
- I CAN identify the education and training levels needed for jobs in natural resources

UNIT 8: I CAN define invasive species, and discuss factors that influence the establishment and spread of invasive species.

Natural Resource Science I: Standard 4, Objective 1j

- I CAN define an invasive species
- I CAN describe how an invasive species effects an ecosystem
- I CAN determine control methods for invasive species

UNIT 9: I CAN investigate air resources.

Natural Resource Science I: Standard 4, Objective 4

- I CAN investigate the important of air.
- I CAN describe the layers of the earth's atmosphere
- I CAN identify sources of air pollution
- I CAN describe the effects of air pollution
- I CAN explain the impact of acid rain

UNIT 10: I CAN explain natural resource conservation.

Natural Resource Science I: Standard 3, Objective 2

- I CAN describe the purposes of natural resource management agencies.
- I CAN compare and contrast the different resource management agencies
- I CAN explain different methods of natural resource conservation

UNIT 11: I CAN examine ecology as it relates to natural resource systems.

Natural Resource Science I: Standard 4, Objective 1

- I CAN define ecosystems and related terms
- I CAN use taxonomy keys to classify organisms

UNIT 12: I CAN examine hydrology principles.

Natural Resource Science I: Standard 4, Objective 3

- I CAN describe where water comes from and identify different types
- I CAN compare and contrast water uses