

Objectives and Colorado State Standards

Objectives:

Students will: (1) understand the significance of invasive plant species and population interactions in an ecosystem; (2) understand ways in which human actions affect ecosystems and the evolution of individual species; (3) Research and discuss methods for invasive plant species removal and begin to understand the many factors involved in making environmental decisions; (4) Participate in fieldwork to observe and mitigate effects of invasive plant species.

State standards

High School (9-12)

Area: Science

Standard: Life Science:

Grade Level Expectation: 2. The sizes and persistence of populations depend on their interactions with each other and on the abiotic factors in an ecosystem.

9. Evolution occurs as the heritable characteristics of populations change across generations and can lead populations to become better adapted to their environment.

Area: Physical Education

Standard: 3. Emotional and Social Wellness

Grade Level Expectation: 3. Demonstrate responsible behavior in group settings.

Standard: 4. Prevention and Risk Management

Grade Level Expectation: 1. Understand the risks and safety factors that may affect participation in physical activity.

Area: Reading, Writing, and Communicating

Standard: 3. Oral Expression and Listening

Grade Level Expectation (12th Grade): 1. Effective speaking in formal and informal settings requires appropriate use of methods and audience awareness.

2. Effective collaborative groups accomplish goals.

Grade Level Expectation (11th Grade): 1. Verbal and nonverbal cues impact the intent of communication.

Grade Level Expectation (10th Grade): 1. Content that is gathered carefully and organized well successfully influences an audience.

2. Effectively operating in large and small groups to accomplish a goal requires active listening.

Grade Level Expectation (9th Grade): 1. Oral presentations require effective preparation strategies.

Standard: 4. Research and Reasoning

Grade Level Expectation (11th Grade): 2. Complex situations require critical thinking across multiple disciplines.

Grade Level Expectation (9th Grade): 2. Effective problem-solving strategies require high-quality reasoning