

# Objectives and Colorado State Standards

---

## Objectives

By completing this module, students will be able to: (1) collect and analyze data, (2) compile data in a useful manner to educate the public, (3) understand the significance of recycling in relation to economics and the environment, (4) discuss school waste production.

## Colorado State Standards

Area: Science

### 2. Earth Systems Science

Grade Level Expectations: 5. There are costs, benefits, and consequences of exploration, development, and consumption of renewable and nonrenewable resources

Area: Social Studies

### 1. Geography

Grade Level Expectations: 3. The interconnected nature of the world, its people and places

### 3. Economics

Grade Level Expectations: 1. Productive resources –natural, human, capital –are scarce; therefore, choices are made about how individuals, businesses, governments, and societies allocate these resources

### 4. Civics

Grade Level Expectations: 1. Research, formulate positions, and engage in appropriate civic participation to address local, state, and national issues or policies

Area: Reading, Writing, and Communicating

### 1. Oral Expression and Listening

Grade Level Expectations: 1. Effective speaking in formal and informal settings requires appropriate use of methods and audience awareness.

2. Effective collaborative groups accomplish goals.

### 2. Writing and Composition

Grade Level Expectations: 2. Ideas, evidence, structure, and style create persuasive, academic, and technical texts for particular audiences and specific purposes

3. Standard English conventions effectively communicate to targeted audiences and purposes.

### 4. Research and Reasoning

- Grade Level Expectations: 1. Independent research designs articulate and defend information, conclusions, and solutions that address specific contexts and purposes.
2. Logical arguments distinguish facts from opinions; and evidence defines reasoned judgment.

Area: Mathematics

1. Number Sense, Properties, and Operations

Grade Level Expectations: 2. Quantitative reasoning is used to make sense of quantities and their relationships in problem situations

3. Data Analysis, Statistics, and Probability

Grade Level Expectations: 1. Visual displays and summary statistics condense the information in data sets into usable knowledge

2. Statistical methods take variability into account supporting informed decisions making through quantitative studies designed to answer specific questions