

ENVIRONMENTAL SCIENCE CP (LAB SCIENCE)

Grade level: 9,10,11,12

Credit: 0.5 or 1.0

Prerequisite: None

Environmental Science provides an overview of basic environmental issues, including climate change, sustainability, pollution, depletion of natural resources, renewable energy, loss of biodiversity, deforestation, soil fertility and erosion, and waste disposal. It also explores the history of the environmental movement, the politics and ethics involved in environmental issues, and the regulations that help limit environmental damage. Students will complete a final project to explore their own impact on the environment and ways to mitigate that impact. There are 5 labs that are designed to give students hands on experience in observing and assessing natural systems and how they function. The topics include backyard ecology, invasive species, energy audits, soil erosion and acid rain.

Environmental Science Lessons

Teacher Message

Lesson 1: What is Environmental Science?

Lesson 2: Ecology

Lab 1: Backyard Ecology

Lesson 3: Air Quality and Pollution

Lesson 4: Climate Disruption

Lesson 5: Forestry Management and Deforestation

Lesson 6: Animal Population and Endangered Species

Lesson 7: Biodiversity

Lab 2 Invasive Species Early Detection Surveys

Lesson 8: Human Population Demographics



Lesson 9: Sustainability

Lesson 10: Political Influences and Activism

Lesson 11: Review

Lesson 12: Energy

Lab 3: Energy Audit and Energy Source Investigation

Lesson 13: Soil Quality

Lab 4: Soil Composition and Soil Erosion

Lesson 14: Solid Wastes and Recycling

Lesson 15: Pesticides

Lesson 16: Toxicology

Lesson 17: Water Quality and Pollution

Lesson 18: Watersheds and Management

Lab 5: Acid Rain

Lesson 19: Environmental Ethics and Law

Lesson 20: Environmental Technologies

Lesson 21: Review

Final Project – Ecological Footprint and Carrying Capacity

