



Leaf Pack Network

National Science Education Standards Connections, Grade 9-12

Leaf Pack Network® curriculum meets the following National Standards for grades 9-12

Objective 1: Develop an understanding about scientific inquiry (content standard A)

Proficiencies: Students will

- Conduct a scientific investigation
- Differentiate between variables and controlled experiments
- Identify questions and concepts that guide scientific investigation?
- Construct an argument for their proposed explanations

Objective 2: Understand that biological classifications are based on how organisms are related (content standard C)

Proficiencies: Students will

- Classify macroinvertebrates

Objective 3: Understand the interdependence of organisms (content standard C)

Proficiencies: Students will

- Demonstrate how energy flows through ecosystems from photosynthetic organism to decomposer
- Human beings live within the world's ecosystems and can modify these systems

Objective 4: Understand Science in Personal and social perspective (content standard F)

Proficiencies: Students will

- Collect and analyze data to understand that humans have a major effect on other species
- Interpret data to understand that many factors influence environmental quality including natural and human factors

Objective 4: History and nature of science (content standard G)

Proficiencies: Students will

- Conduct a field-based study to develop an interest in science as a future career or hobby
- Communicate their results to their peers in a truthful manner
- Research current scientific literature to develop explanations and understand that all scientific ideas depend on experimental and observational confirmation which may change as new evidence becomes available



The Leaf Pack Network is an initiative of Stroud™ Water Research Center. The Stroud Center seeks to advance knowledge and stewardship of freshwater systems through global research, education, and watershed restoration. Learn more at www.stroudcenter.org