



# **Leaf Pack Network**

## **National Science Education Standards Connections, Grade 5-8**

Leaf Pack Network® curriculum meets the following National Standards for grades 5-8

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

Proficiencies: Students will

- Identify a central question that can be answered through the experimental leaf pack investigation
- Conduct a scientific investigation
  - Differentiate between a control and a variable
  - Make accurate measurements and observations
- Develop explanations and descriptions using evidence collected
  - Differentiate explanation from description
  - Summarize data
  - Develop explanations from the evidence collected
- Present and communicate their data and explanations

### **Objective 2: Develop an understanding about populations and ecosystems (content standard C)**

Proficiencies: Students will

- Identify specific populations and the physical factors with which they interact to characterize stream ecosystems
- Construct a food web by identifying the relationship among producers, consumers, and decomposers in an ecosystem
- Identify the flow of energy through an ecosystem
- Describe how animals have adapted to leaf packs

### **Objective 3: Develop a connection between populations, resources, and environments (content standard F)**

Proficiencies: Students will

- Use data from the LPN to interpret how causes of environmental degradation can vary from region to region
- Use the LPN to identify how human activities can affect the environment
- Understand how personal and social decisions are made based on perceptions of benefits and risks

### **Objective 4: Understand the nature of science (content standard F)**

Proficiencies: Students will

- Communicate their LPN results to understand that science is a human endeavor and although scientists work in different ways, all communicate extensively with others
- Analyze and interpret their data, the data of other participants, and background information to understand that although our understanding of the world around us is based on experimental and observational confirmation



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](http://www.stroudcenter.org)