



Leaf Pack Network

Maryland State Standards, Grade 5

Leaf Pack Network[®] curriculum meets the following Maryland State Standards for grade 5.

Skills and Processes (1.0)

Scientific Inquiry

1.5.1 Access and process information from readings, investigation , and/or oral communications.

1.5.2 Ask questions that can be answered through a scientific investigation.

1.5.3 Use observations and select appropriate scientific information to form predictions and hypotheses.

1.5.4 Recognize/develop well-designed procedures that identify important variables within an investigation.

1.5.5 Demonstrate safety when conducting an investigation.

1.5.6 Use metric units when measuring or collecting data.

1.5.7 Use appropriate instruments (e.g. calculators, spreadsheets, databases, and graphing programs) to collect, organize, and display on charts, tables, graphs, or with drawings.

1.5.9 Interpret and communicate findings (i.e., speaking, writing, and drawing) in a form suited to the purpose and audience, using developmentally appropriate methods including technology tools and telecommunications.

By the end of the specified grade level students know and are able to do everything required at earlier grades and:

Critical Thinking

By the end of the specified grade level students know and are able to do everything required at earlier grades and:

1.5.11 Classify objects, materials, concepts, and actions based on similarities and differences.

1.5.12 Recognize when reasoning can be distorted by inaccurate data and/or strong feelings.

1.5.13 Recognize that there can be more than one explanation for a set of data.

1.5.14 Provide supporting evidence when forming conclusions, devising a plan or solving a practical problem.

1.5.16 Modify ideas based on new information from developmentally appropriate readings, data, and the ideas of others.

1.5.17 Describe to others how scientific information was used.

Applications of Science

By the end of the specified grade level students know and are able to do everything required at earlier grades and:

1.5.18 Apply scientific concepts to understand a new situation.

1.5.20 Apply scientific concepts to make decisions.

Life Science (3.0)

Ecology

By the end of the specified grade levels students know and are able to do everything required at earlier grades and:

3.5.12 Cite evidence that individuals and groups of organisms interact with each other and their environment (ie. food chain, reproduction, decomposition).

3.5.13 Cite evidence that living organisms change environments in ways that can be either beneficial or detrimental to themselves and other living organisms (e.g. food chain, overpopulation, pollination)

Environmental Science (6.0)

Interdependence of Organisms

6.5.3 Identify the survival needs and interactions between organisms and the environment

Natural Resources and Human Needs

6.5.4 Explain how natural resources are used by humans to meet basic needs.

Environmental Issues

6.5.5 Explain that decisions influencing the environment may have benefits, drawbacks and unexpected consequences no matter how carefully the decisions are made.



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