

Introduction to the Education Standards and Forestry Expo Student Workbook

A committee of local educators and resource professionals developed the Flathead County Science Curriculum Guide, published in 1992 and revised in 1995. Grade-level science standards were selected after a thorough study of up-to-date research and months of dialogue. Schools throughout Flathead County use the curriculum to guide science instruction.

Montana's Office of Public Instruction published the Montana Science Standards in 1999. The Montana Science Teachers Association (MSTA) was instrumental in developing these standards, which are based on the National Science Teachers Association Standards.

The National Research Council published the National Science Education Standards in 1996. The National Science Teachers Association along with the National Academy of Sciences and other groups support this document that was designed to enable all students in the nation to achieve the goal of becoming scientifically literate.

Connections between the Standards and the Family Forestry Expo include:

Identify and Use Resources Outside the School:

The school science program must extend beyond the walls of the school to the resources of the community. The physical environment in and around the school can be used as a living laboratory for the study of natural phenomena.

ARCHAEOLOGY: WHAT IS IT? Page 3

Flathead County Science Curriculum Guide

Standard 7/8.5.G

Explore the relationships of life science interests, career opportunities, and historical contributions to science.

Montana Science Standards

Content Standard 5.1

Identify the specific fields of scientific endeavor and related occupations within those fields.

FIRE IN THE FOREST

Pages 6-9

Flathead County Science Curriculum Guide

Standard 5.3.P

Sequence the life cycle of various fungus and green plants.

Standard 5.4.P

Describe how structural adaptations help plants survive.

Montana Science Standards

Content Standard 3.4

Explain the interdependent nature of biological systems in the environment and how they are affected by human interaction.

FOREST WILDLIFE

Pages 13-16

Flathead County Science Curriculum Guide

Standard 5.3.A

Classify animals as producers, consumers, decomposers, predators, prey.

Standard 5.4.A

Classify vertebrates as carnivores, herbivores, omnivores, fish, birds, reptiles, amphibians, mammals.

Standard 5.5.A

Explore animals' interrelationships within their environment: weather; soil; climate; elevation; water.

Standard 5.7.E

Discuss natural resources and wise use of these resources.

Standard 6.5.P

Compare food webs/chains and identify interdependence in a variety of ecosystems.

Montana State Science Standards

Content Standard 3.4

Explain the interdependent nature of biological systems in the environment and how they are affected by human interaction.

FISH AND STREAMS OF THE FLATHEAD VALLEY

Pages 18-21

Flathead County Curriculum Guide

Standard 5.5.A

Explore animals' interrelationships within their environment- weather, soil, climate, elevation, water.

Standard 5.5.W

Identify water sources such as ground water, aquifers, run-off, springs and examine causes and effects of polluting these sources.

Standard 6.3.A

Recognize animals' life processes and cycles.

Standard 6.2.W

Explore the Flathead River System and its connection to the Columbia Drainage.

Montana State Science Standards

Content Standard 3.4

Explain the interdependent nature of biological systems in the environment and how they are affected by human interaction.

FOREST PRODUCTS

Pages 24-26

Flathead County Curriculum Guide

Standard 5.7.E

Discuss natural resources and wise use of these resources.

Standard 6.6.G

Recognize each individual's role in environmental responsibility.

TREE IDENTIFICATION

Pages 29-36

Flathead County Science Curriculum Guide

Standard 6.1.P

Identify plants native to Flathead Valley.

Standard 6.3.P

Identify sequential stages of development in the life cycle of various plants.

FOREST LAND MANAGEMENT

Pages 39-44

Flathead County Science Curriculum Guide

Standard 5.7.E

Discuss natural resources and wise uses of these resources.

Standard 6.3.P

Identify sequential stages of development in the life cycle of various plants.

Montana State Science Standards

Content Standard 3.4

Explain the interdependent nature of biological systems in the environment and how they are affected by human interaction.

FOREST RECREATION

Pages 48-52

Flathead County Science Curriculum Guide

Standard 5.6.G

Appreciate the beauty and universal importance of all natural resources and recognize each individual's role in environmental responsibility.