Curriculum Map

Course Name	Ecology
SEPTEMBER	Maps, Topography, GIS
OCTOBER	Soil
NOVEMBER	Soil profiles and land use
DECEMBER	General botany
JANUARY	Dendrology
FEBRUARY	Forest use and conservation
MARCH	Introduction to water cycle and oceanography
APRIL	Hydrology
MAY	Water studies

Course: Ecology

Ecology is a course that will introduce students to the interactions of living and nonliving parts of our environment. Students will survey topics ranging from: forestry, aquatics, wildlife, soils, human interactions, and current issues facing our environment.

The course will allow students to:

1. Understand the basic interactions of our environment.
2. Describe how living organisms develop to meet the needs of a changing world.
3. Explain how society is affected by current environmental issues.
4. Describe how technology is shaping our scientific knowledge of our world .

Course resources:

Biology: An Everyday Experience. Glencoe 2003 edition

Earth Science. McDougal Littell 2006 edition

Pa Envirothon website

Pa Dept of Natural resources website

Pa State Standards:

Standard - 4.1.12.C Research how humans affect energy flow within an ecosystem.

Standard - 4.1.12.E Research solutions addressing human impacts on ecosystems over time.

Standard - 4.2.12.A Examine environmental laws related to land use management and its impact on the water quality and flow within a watershed.

Standard - 4.3.12.B Analyze factors that influence the local, regional, national, and global availability of natural resources.

Standard - 4.4.12.B Research and evaluate laws and policies that affect the food and fiber system.

Standard - 4.5.12.D Evaluate waste management practices. Standard - 4.5.12.C Analyze the costs and benefits of means to control pollution.