**Youth Natural Resources Lesson Plan**

**Entomology**

* Grades 3 -5
  + Bugs R Us – learn about insect anatomy by building an insect
  + FACETnating – explore how insects view their world
* Grades 6-8
  + Peek A Bug – explore places where insects might be found
  + Read the Label, Mabel – insecticides and insect control

**Forestry**

* Grades 3-5
  + Home, Tree, Home – explore different climates in which trees can live
  + In the Tree's House – forest habitats and the organisms in those habitats
* Grades 6-8
  + City Trees – urban planning and the benefits of urban trees
  + Growing Every Day – measuring the volume of a standing tree and discuss tree growth

**Geology**

* Grade 3
  + You Rock! – Understand that there are many differences in rocks and how categorizing helps to talk about differences.
* Grades 4-5
  + How Rocks Change – the Earth’s processes that cause the three basic types of rocks (igneous, metamorphic, and sedimentary).
  + Cross Word Puzzle – geology terminology definitions

**Soil & Water**

* Grades 4 & 5
  + Designer Soils – how different soil components affect plant growth

**Weather**

* Grades 3 & 4
  + What Makes Weather? – the three major factors that make up our weather
* Grades 4 & 5
  + Experiments with Weather Makers – basic weather concepts
  + Weather Information – observe and record weather information
  + Assembling a Weather Station – design and construct equipment to make a weather station
* Grades 5 & 6
  + Build a Better Rain Gauge – build a rain gauge and how to observe rainfall
  + Recording Weather Data – collect and interpret data from a weather station
  + Wind Observation Equipment – design and construct wind measurement equipment

**Wildlife**

* Grades 3 & 4
  + Bird Feeder Observations – construct a bird feeder and observe what birds use the feeder
  + Birdbath Observations – design and construct a birdbath and observe what birds use it.
  + Observation Skills – observe living things and the interactions within species and between species.
* Grades 4 & 5
  + Habitats: Where You'll Find Us – classify animals into the three main habitats found in Indiana using a Venn diagram.
  + Habitats: What Am I? – Food Chains – food chains and animal classification (carnivore, omnivore, or herbivore)
  + Animals and their offspring: How We Grow – animals and their offspring
* Grades 5 & 6
  + Habitats – wildlife habitat needs
  + Population Growth – birth and death rates effects on population growth