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| Time Frame | Topic/Unit | Skills/Concepts | Major Assessments | Core Standards | Resources |
| 2 weeks | Introduction to Environmental Science | * Readings/lecture notes on environmental science
* Lab activity on producing tables and graphs
* Lab activity on basic process of scientific research
 | Presentations by students on natural resources | Reading Anchor StandardsStandard 1 2 3 and 4Writing Anchor StandardsStandard 2 and 5Speaking and Listening Anchor StandardsStandard 1 2 and 4Language Anchor StandardsStandard 1 and 4 | Ag Ed NetManaging Our Natural Resources book |
| 1 week | Ecosystems | * Readings/lecture notes on basic concepts of environmental science
* Observations of different types of communities in our area
* Report on biome
 | Presentations on ecosystems by students | LE Standard 1, 2, 3, 5, 6 and 7 | Ag Ed NetLand lab |
| 2 weeks | Soils | * Readings/lecture notes on soils
* Soil testing
* Soil horizons, structures and texture
* Land Use
* Soil Erosion
 | Practical’s and summative assessment |  | Ag Ed NetSoils test kitsSoil probesLand lab |
| 8 weeks | Aquatics | * Readings/lecture notes on aquatics
* Water cycle
* Water quality (testing and natural indicators)
* Ground water
* Wetlands
 | Practical’s and summative assessment | Reading Anchor StandardsStandard 1 2 3 and 4Writing Anchor StandardsStandard 2 and 5 | Ag Ed NetWater testing kitNets and bucketsField guides for aquatic species  |
| 2 weeks | Air Quality | * Readings/lecture notes on air
* Effects of air pollution
* Report on global warming
 | Summative assessment | Speaking and Listening Anchor StandardsStandard 1 2 and 4 | Ag Ed Net |
| 2 weeks | Waste Management | * Readings/lecture notes on waste and waste management
* Waste water
* Solid waste
* Composting
* Recycling
* Landfill activity
 | Practical’s and reports | Language Anchor StandardsStandard 1 and 4LE Standard 1, 2, 3, 5, 6 and 7 | Ag Ed NetDEC website |
| 3 weeks | FFA | * CDE and LDE events
 | Practical |  | Ag Ed NetFFA website |
| 3 weeks | Energy  | * Readings/lecture notes on energy production and source
* Lab activity on wind and solar energy
* Energy conservation
* Report on history of energy
* Report on new energy sources
 | Practical’s and reports | Reading Anchor StandardsStandard 1 2 3 and 4Writing Anchor StandardsStandard 2 and 5 | Ag Ed NetEnergy lab kit |
| 8 weeks | Wildlife | * Readings/lecture notes on wildlife species and management
* Wildlife ID
* Report on species
* Wildlife survey
* Endangered/Threaten animals
* Hunting and fishing
 | Practical’s and summative assessment | Speaking and Listening Anchor StandardsStandard 1 2 and 4Language Anchor StandardsStandard 1 and 4LE Standard 1, 2, 3, 5, 6 and 7CS Standard 1.2 and 4 | Ag Ed NetWildlife guidesTrack kitDec website |
| 10 weeks | Forestry | * Readings/lecture notes on forests and forestry management
* Forestry measurements
* Tree ID
* Lumber quality
* Safety
* Sawmill operation
* Timber sales
* School wood lot management
 | Practical’s and summative assessment | \*\*AFNR National Standards (Agricultural Food and Natural Resources) | Ag Ed NetCruise sticksLand wheelTree id guidesDec websiteChainsaw’s and safety equipment |