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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 Standards  Standard 1 2 3 and 4  Writing Anchor Standards  Standard 2 and 5  Speaking and Listening Anchor Standards  Standard 1 2 and 4  Language Anchor Standards  Standard 1 and 4 | Ag Ed Net  Managing 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 Net  Land 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 Net  Soils test kits  Soil probes  Land 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 Standards  Standard 1 2 3 and 4  Writing Anchor Standards  Standard 2 and 5 | Ag Ed Net  Water testing kit  Nets and buckets  Field 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 Standards  Standard 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 Standards  Standard 1 and 4  LE Standard 1, 2, 3, 5, 6 and 7 | Ag Ed Net  DEC website |
| 3 weeks | FFA | * CDE and LDE events | Practical |  | Ag Ed Net  FFA 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 Standards  Standard 1 2 3 and 4  Writing Anchor Standards  Standard 2 and 5 | Ag Ed Net  Energy 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 Standards  Standard 1 2 and 4  Language Anchor Standards  Standard 1 and 4  LE Standard 1, 2, 3, 5, 6 and 7  CS Standard 1.2 and 4 | Ag Ed Net  Wildlife guides  Track kit  Dec 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 Net  Cruise sticks  Land wheel  Tree id guides  Dec website  Chainsaw’s and safety equipment |