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| Time Frame | Topic/Unit | Skills/Concepts | Major Assessments | Core Standards | Resources |
| 2 weeks  Sept | **World of Agriculture** | -Readings, lecture notes and class  discussion on agriculture importance,  diversity and history  -Create a time line of the history of  agriculture  -chose an agricultural career and report on it (written report) | Projects demonstrating understanding | 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  LE Standard 1 | Ag Ed Net |
| 6 weeks  Sept  /Jan | **Introduction of the FFA** | -Lecture notes and class discussion on leadership and FFA  -Students will create their records for SAE  -Students will chose FFA contest, prepare and present (written and oral report) | Practical’s on material like job interview and prepared public speaking | 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 | FFA handbook  FFA website  Ag Ed Net |
| 7 weeks  Sept/Oct | Tractor Safety | -Tractor safety overview  -Tractor controls  -Tractor maintenance  -Tractor starting and stopping  -Tractor operation | Formative and summative assessment on materials  Practical on starting and stopping  Practical on operating | 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  CS Standards 1,2 and 4 | Tractor safety units  Tractor  Video’s on topics |
| 8 weeks  Nov | Introduction to  Mechanical Science | -Readings/lectures on safety, planning, finishing wood./metal, abrasives  -Equipment use and safety demo  -Plan and build project  -Arc welding | Summative assessment and practical’s |  | Ag Ed Net  Tools and machines  PPE’s |
| 10 weeks  Feb/Mar/Apr | Introduction to Animal  Science | -Readings/lecture notes on livestock industry  -Genetics Lab  -Breeding systems  -Livestock breeds report  -Report on biotechnology in animal  science  -Readings/lectures notes on animal health  -Disease report  -Readings/lecture notes on animal welfare  -Dairy and livestock Judging  -Animal Nutrition  -Anatomy and Physiology | Projects and practical’s | 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  LE Standard 1, 2, 3, 5, 6 and 7 | Ag Ed Net  Live stock ^ Poultry book |
| 1 week  May | **Introduction to Soil** | -Readings/lecture notes on soils  -Soil testing lab  -Soil profiles, structures and texture | Practical’s and summative assessment on material | ES Standards 1,2,4,6 and 7 | Ag Ed Net  Soil test kits |
| 8 weeks  May/June | **Introduction to Plant**  **Science** | -Readings/lecture notes on plants  -Plant Structures lab  -Plant environment lab  -Fertilizer and lime calculations  -Seed selection  -Site Analysis  -Garden Project | Practical’s and projects | 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  LE Standard 1, 2, 3, 5, 6 and 7  \*\*AFNR National Standards (Agricultural Food and Natural Resources) | Ag Ed Net  Seed  Measuring devices (land wheel)  Fertilizer  Potting soil and pots |