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| Time Frame | Topic/Unit | Skills/Concepts | Major Assessments | Core Standards | Resources |
| 2 weeks  Sept | Safety | * Readings/lecture notes on safety and tool use and ID * Demonstration on took use and safety * Shop organization | Practical’s and summative assessment | Reading Anchor Standards  Standard 1 2 3 and 4  Writing Anchor Standards  Standard 2 and 5  Speaking and Listening | Ag Ed Net  Tools and machines  PPE’s  Owner’s manuals |
| 3 weeks  Sept | Planning in Mechanics | * Readings/lecture notes on planning * Design a project * Layout/Build a project * Calculate bill of materials * Measurement | Practical’s | Anchor Standards  Standard 1 2 and 4  Language Anchor Standards  Standard 1 and 4 | Ag Ed Net  Drawing equipment |
| 10 weeks  Nov/Dec | Electricity | * Readings/lecture notes on safety, uses, principles, design, and tools * Mr. Circuit labs (30 labs) * Household wiring * Schematics | Practical’s and summative assessment | CS Standards 1,2, 4 and 6  PS Standards 1, 2, 4, 5,6 and 7 | Ag Ed Net  Circuit board kits  Household wiring material |
| 3 weeks  Jan | FFA | * CDE and LDE Events | Practical |  | FFA website |
| 5 weeks  Dec | Plumbing | * Readings/lecture notes on plumbing * Tools for Plumbing * Materials used in plumbing * Complete a plumbing installation | Practical’s and summative assessment |  | Ag Ed Net  Plumbing supplies  Plumbing tools |
| 6 weeks  Oct | Metals | * Readings/lecture notes on metals and joining them together * Arc welding * Oxy/Act welding and cutting * Plasma cutters * ID metals * MIG welding * Cutting and drilling metal * Painting metal | Practical’s and summative assessment |  | Ag Ed Net  Metal  Projects  Welders  Oxy/Act system  Metal tools |
| 4 weeks  Oct | Wood | * Project planning * Project build * Painting wood | Practical’s |  | Ag Ed Net  Wood  Paint |
| 10 weeks  Nov/Dec | Small and Large Engines | * Readings/lecture on small and large engine operation, principles, safety, etc * Trouble shooting exercise * Parts ID and use * Measurements in engines * Rebuilding an engine * Parts manuals and tech manuals | Practical’s and summative assessment | PS Standards 1, 2, 4, 5,6 and 7 | Ag Ed Net  Tools  PPE’s  Small engines and parts  video |
| 10 weeks  Apr/May | Power Trains/Engines | * Readings/lecture notes on power trains * Parts manuals and tech manuals * Trouble shooting power trains * Types of power trains * Rates of flow * Horse power | Practical’s and summative assessment | PS Standards 1, 2, 4, 5,6 and 7 | Ag Ed Net  JD Power Trains manual  Video’s  Power kit |
| 8 weeks  May/June | Agricultural Structures | * Readings/lecture notes on construction design, plans, materials, etc * Cement and masonry * Trusses and rafters * Building layout | Practical’s and summative assessment | PS Standards 1,6 and 7  \*\*AFNR National Standards (Agricultural Food and Natural Resources) | Ag Ed Net  Building material  Tools and machines |