Morisset High School

**Scope and Sequence**

**STAGE 5 - Year 10 Agricultural Technology (Agriculture) 2017**

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| **YEAR**  **10** | **Weeks** | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **Term**  **1** | **Topic:** General Farm Safety Induction (2 periods)   * WH&S requirements   **Topic:** Pigs Enterprises Unit – Put Some Pork on Your Folk  **Duration:** 8 Weeks  **Key Concepts:**  Breeds, Routine husbandry activities, Calendar of operations, Feeding and nutrition, Monogastric digestive system, Market specifications, Carcase characteristics and scoring, Reproduction and reproductive system, Pests and diseases, Housing and handling, Past and present environmental impact, Welfare and ethics issues, WH&S requirements.  **Topic:** Tractor Instruction and Operation  **Key Concepts:**  Safety and farm Machinery, Pre-operational check of tractor and work area, Identification of tractor parts, Driving Tractor – forward and reverse  **Duration:** 2 Weeks  **Outcomes:** 5.1.1, 5.1.2, 5.2.1, 5.3.2, 5.3.4, 5.4.1, 5.4.3, 5.6.1 and 5.6.2  **Formal Assessment:** Topic Test and Powerpoint Presentation  **Informal Assessment:** Completion of Work Booklet, 5 Practical Exercises, Verbal Responses. | | | | | | | | | | |
| **Term**  **2** | **Topic:** Beef Cattle – Tocal Steer Challenge Unit  **Duration:** 8 Weeks  **Key Concepts:**  Breeds (also Bos Indicus versus Bos Taurus),Feeding and nutrition (Tocal Steer Competition), Ruminant digestive system, Routine husbandry activities, NLIS (national livestock identification system), Carcase characteristics and scoring, Meat quality, Meat markets and marketing, Extensive (pastoral) and intensive (feedlot), Cross breeding/Line Breeding, Reproduction, Diseases, especially digestive disorders, Past and present environmental impact, Welfare and ethics issues, WH&S requirements  **Topic:** Tractor Instruction and Operation  **Duration:** 2 Weeks  **Key Concepts:**  Driving Licence, Identification of implements and function, Attaching implements, Using implements, Correctly using implements  **Outcomes:** 5.1.1, 5.1.2, 5.2.1, 5.3.1, 5.3.2, 5.3.4, 5.4.1, 5.4.2, 5.4.3, 5.5.2 and 5.6.2  **Formal Assessment:** Topic Test and Research Assignment  **Informal Assessment:** Completion of Work Booklet, 5 Practical Exercises, Verbal  Responses. | | | | | | | | | |  |

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| **YEAR**  **10** | **Weeks** | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **Term**  **3** | **Topic:** Vegetables at Your Backdoor Unit  **Duration:** 8 Weeks  **Key Concepts:**  Production in soil, Other methods of production – hydroponics, aquaponics, mushrooms, etc., Hand tools, Machinery use and safety, Mulching methods  Plant Nutrition, pH, Soil types, structure, texture and improvement, Pests and diseases, Vegetable marketing, Seasonality Vegetable types, Plant spacing, sowing depth, Vegetable varieties and requirements, Vegetable Growing Techniques, Maintenance and Harvesting Techniques, Past and present environmental impact, Changing cultural cuisine, Sustainability, WH&S requirements  **Topic:** Tractor Instruction and Operation  **Duration:** 2 Weeks  **Key Concepts:**  Technology and its increasing impact on efficient operation, Personal Protective Equipment (PPE) requirements/regulations, Environmental impact of farm machinery and implements, WH&S Requirements  **Outcomes:** 5.1.1, 5.1.2, 5.2.1, 5.3.1, 5.3.2, 5.3.3, 5.5.1 and 5.6.1  **Formal Assessment:** Topic Test and Seed Packet Design  **Informal Assessment:** Completion of Work Booklet, 5 Practical Exercises, Verbal  Responses. | | | | | | | | | |  |
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| **Term**  **4** | **Topic:** Fruit, Native and Ornamental Plant Propagation Unit  **Duration:** 8 Weeks  **Key Concepts:**  Plant structure and function, Varieties of fruit, Management of citrus, pome and stone fruit, Pests and diseases, Aboriginal bush tucker plants, Pruning methods, Orchard layout Potting mixes, Sexual and asexual reproduction, Seedling propagation, Irrigation Methods/Misting, Bottom heating, Basic greenhouse design, Propagation techniques: - Leaf cuttings, Softwood cuttings, Hardwood cuttings, Layering, Budding, Grafting and Plant tissue culture, Basic plant classification, Native plant seed germination, Native plant propagation methods  **Outcomes:** 5.1.1, 5.1.2, 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2, 5.4.3, 5.5.1, 5.5.2, 5.6.1 and  5.6.2  **Formal Assessment:** Topic Test and Research Bush Tucker  **Informal Assessment:** Completion of Work Booklet, 5 Practical Exercises, Verbal  Responses. | | | | | | | | | |  |