



AGRICULTURE 7-10 CURRICULUM OVERVIEW



Year 7

Year 8

Year 9

Year 10

TERM 1

TERM 2

TERM 3

TERM 4

	Year 7	Year 8	Year 9	Year 10
WEEK 1	Unit 1: Farm Safety Students will be introduced to the Ag block and associated animals. They will learn about Farm Safety and become familiar with the animal, plant, and equipment risks associated with the school farm environment.	Unit 1: Farm Safety Students will be re-introduced to the Ag block and associated animals. They will revisit Farm Safety and the animal, plant, and equipment risks associated with the school farm environment.	Unit 1: Food Supply In this unit, students explore the challenges facing primary producers in feeding a growing world population. Different perspectives are explored including food wastage, farm productivity, and emerging food production trends and how individuals can contribute. Students will be provided with a raw product (e.g. fruit, red meat) and will be challenged to prepare and market a final product for sale to consumers.	Unit 1: Land Management Systems Land management practices in Agriculture have changed significantly over time. Students will investigate the range of systems used by our First Nations people, early settlers of Australia and current practices; with an emphasis on sustainability.
WEEK 2				
WEEK 3				
WEEK 4	Unit 2: Vegetable Gardens In this unit, students explore the key partnerships that support healthy plant growth and efficient food production. Students will learn about the planning, planting and maintenance of a vegetable garden (including seasonal planting, soil preparation and pest control). This unit includes links to the Science Scope and sequence through the Biological sciences sub-strand	Unit 2: Soils and Seedlings Students will learn about the importance of soil in agriculture and processes used to improve the quality of the soil such as composting and the presence of organisms. Students will be responsible for planting and maintaining a range of different seedlings in the greenhouse.		Unit 2: Broadacre Cropping In this unit students will understand that broadacre cropping is worth nearly \$13 billion annually to Australia's economy, providing high quality grains and pulses for domestic and international markets. Students will gain an understanding of the basic crop types and the decisions required by farmers across a cropping cycle. Developments in technology will be explored from the earliest farmers through to current practices, e.g., drones, GPS, auto-steer.
WEEK 5				
WEEK 6			Unit 2: Dairy Cattle Dairy Cattle are an important primary production industry in our area. Students will be introduced to two dairy calves and will be responsible for their care for 3-4 weeks. They will learn about appropriate animal husbandry, the dairy industry and possible careers that are indirectly and directly related to the dairy industry. Students will investigate developments in the technology used in the dairy industry.	
WEEK 7				Unit 3: Sheep Sheep farming in the Mid-North is an important dual-purpose enterprise, with both wool and meat being produced. Students will learn the basic animal husbandry techniques for sheep management. They will also address sheep nutrition, breeding and identification; and advances in animal identification technology will be investigated. Design Thinking will be used to create plans for sheep yards that incorporate innovation and improve animal welfare and work, health and safety.
WEEK 8				
WEEK 9				
WEEK 10				
WEEK 11				
WEEK 1	Unit 4: Passion Project In this unit, students will be encouraged to explore a project of their own interest with a link to Agriculture. They will follow the Design Cycle and document their learning journey throughout the project. On completion of the unit, students will present their projects in a showcase to families and staff.	Unit 3: Poultry In this unit, students explore the poultry industry with a focus on management, biosecurity and welfare. They will identify the equipment and resources needed for working with poultry. The development of eggs is discussed with links to the Science scope and sequence through multicellular systems. An investigation comparing chicken growth is conducted over 4 weeks. Design thinking will be utilised to apply the concepts learned by designing sustainable housing for poultry. Two approaches to investigation will be employed - Science inquiry skills and Technologies design thinking. Students will also be involved in the Royal Adelaide Show Poultry Competition.	Unit 1: Food Supply cont.	
WEEK 2				
WEEK 3				
WEEK 4			Unit 3: Viticulture Viticulture is the study of growing grapevines. Students will be involved in grape monitoring and the picking of the school's Riesling and Shiraz grapes. They will be involved in the collecting and analysing of data which is used to determine the time of harvest. Students will also compare Eco-Vineyard management with traditional vineyard management methods.	Unit 2: Broadacre Cropping In this unit students will understand that broadacre cropping is worth nearly \$13 billion annually to Australia's economy, providing high quality grains and pulses for domestic and international markets. Students will gain an understanding of the basic crop types and the decisions required by farmers across a cropping cycle. Developments in technology will be explored from the earliest farmers through to current practices, e.g., drones, GPS, auto-steer.
WEEK 5				
WEEK 6				
WEEK 7				
WEEK 8				
WEEK 9	Unit 2 (cont): Vegetable Gardens In this unit, students will harvest their produce and assess the success of their garden.			
WEEK 10				
WEEK 1			Unit 4: Animal Welfare Students will be introduced to the Five Freedoms of Animal Welfare. They will observe the animals in the Ag block and assess their animal welfare requirements, identifying improvements if necessary.	Unit 1: Pruning (Horticulture and Viticulture) Pruning of vines and fruit trees is necessary to maximise production. Students will learn and practice several pruning techniques to apply in the vineyard. They will also investigate the advantages and disadvantages of hand-pruning versus machine-pruning.
WEEK 2				
WEEK 3			Unit 5: Biosecurity Biosecurity is crucial to maintain successful primary production systems and ensure access to key markets. Strategies for managing pests, weeds and diseases effectively are required at all levels from international border security to farm gate controls, with sustainability as a priority.	
WEEK 4				
WEEK 5				
WEEK 6				Unit 2: Beef Cattle There are many different breeds of beef cattle farmed across Australia depending on the environmental conditions. Students will research the suitability of breeds to different areas of Australia. They will investigate feedlot designs that meet animal welfare standards and produce high quality beef. Students will learn about the different cuts of meat and the impact of management practices on meat quality.
WEEK 7				
WEEK 8				
WEEK 9			Unit 7: AgriTech Food and fibre producers are early adopters of technology and use it to increase productivity, efficiency, and address challenges. Students will explore how technology has changed over time and investigate emerging applications. They will investigate technology solutions to a primary production issue.	
WEEK 10				
WEEK 1				
WEEK 2				
WEEK 3				
WEEK 4			Unit 6: Pigs The pork industry is a major employer in the Agricultural sector. Students will manage a group of 6 piglets for a period of 12 weeks and analyse their growth data. They will investigate digestive systems, pig farming systems, pig housing and animal welfare requirements. Students will also research the marketing of pork products and how this is influenced by consumers.	Unit 3: Fibre Production With Australian Merino sheep producing over 90% of the world's wool for apparel, this unit will explore the production of wool, its unique properties and traditional and emerging uses for the fibre. Challenges and innovations in the industry will be investigated and career pathways will be discussed. Students will also be introduced to a range of alternative fibres and their uses.
WEEK 5				
WEEK 6				
WEEK 7				
WEEK 8				
WEEK 9				

*Please note: The Unit order may alter due to facility and resource availability