



INCOMPATIBLE SUBJECTS	Nil	DEPENDENT SUBJECTS	Nil
PRE-REQUISITE SUBJECTS	Nil	POTENTIAL QCE POINTS	NA
COURSE DURATION	1 year	CONTRIBUTES TO ATAR	NA
FINANCIAL COMMITMENT	REFER TO FEE SCHEDULE	DELIVERY PARTNERSHIP	NA
COURSE REQUIREMENTS	TBA		

### COURSE CONTENT

Year 10 Introduction to Agricultural Science – Feeding the world by land, water and air!

UNIT 1	ASSESSMENT
<p><b>Hydroponics &amp; Aquaculture</b></p> <p>Investigation of hydroponics and aquaculture systems and its' sustainability, maintenance and set up of plants such as strawberries and lettuce and fish such as Jade Perch. At the end of the year, there is a celebration of fish and chips.</p>	<p><b>Examination</b></p> <p>Exam questions on hydroponic, fish and redclaw systems, plant and fish anatomy and physiology.</p>
UNIT 2	ASSESSMENT
<p><b>Meat Chickens</b></p> <p>Investigation of a meat chicken feed trial with a comparison of different feed rations. Students work towards an understanding of chicken digestive systems and different feed rations. Through the investigation students will make a choice about which feed ration provides the best growth and development.</p>	<p><b>Data Test</b></p> <p>Data test questions on the growth of the different feed rations and their qualities.</p>
UNIT 3	SUMMATIVE ASSESSMENT
<p><b>Cattle Production</b></p> <p>Investigation of intensive and extensive cattle production systems in northern and southern Australia. Students focus on cattle anatomy and physiology with an investigation of different breeds and their fit for purpose in different environments.</p>	<p><b>Research Investigation</b></p> <p>Students will investigate GPS tracking of animals to study the reasons behind their behaviour.</p>
UNIT 4	SUMMATIVE ASSESSMENT
<p><b>Improved Pastures</b></p> <p>Investigation of different pastures and grasses; and how animals make use of them. Students to develop a plan of fertilising and seeding of paddocks for improved grass and plant quality to achieve the best nutritional outcomes for animals. Students will collect different data on grass species and their growth in trial plots.</p>	<p><b>Student Experiment</b></p> <p>Students will conduct an experiment on the growth of different grass and plant varieties in trial paddock plots.</p>

### CAREER PATHWAYS

Students considering a career in agriculture would be ideally suited, provide a solid foundation for senior agriculture subjects. This subject leads directly into senior agricultural subjects – it is designed to give you a foundation knowledge that you can build on, in Years 11 & 12. This subject would fit into the **STEM Hub**.

### FIND OUT MORE

Australian Agriculture Employment

<http://www.ruralcareers.net.au/agriculture> |

Australian Agriculture overview

<https://farmers.org.au>

The farm and the environment

[https://www.youtube.com/watch?v=fFUZ\\_j2cCe0](https://www.youtube.com/watch?v=fFUZ_j2cCe0)

The future of farming technology

<https://www.youtube.com/watch?v=Tgfvymh5Zns>

<https://www.youtube.com/watch?v=Qmla9NLFbVU>