

# ACADEMIC PROGRAMS

## Semester I

Year 11

Agricultural Science

# FAIRHOLME SCIENCE DEPARTMENT

Course: Grade 11 Agriculture

Outline: SEMESTER 1, 2017

**Introduction:** In their first semester of Agriculture students will investigate climatic factors and soil types, and how their characteristics affect cotton production. Water usage and erosion are examined in relation to sustainable agricultural practice.

Students will conduct a plant nutrition trial investigating factors affecting wheat production and aim to draw conclusions about developing top quality, cost-effective crops.

## Unit 1: From the ground up

### Term One – Cotton Production – climate, water and soils focus

- Natural and Agricultural systems
- Experimental design and data analysis
- Climate and its effect on sustainable Agriculture
- Water management with cotton
- Soil structure
- Nutrient requirements of cotton

Excursions: Cotton Australia Farm visit with an Agronomist; a visit to an operating cotton gin.

### Term Two – Wheat Production – Plant structure and physiology

- Plant structure of monocotyledons and dicotyledons
- Photosynthesis
- Development of the wheat plant
- Factors that affect plant growth development and production

## Assessment Summary:

### Term One – Cotton Production

Week	Date	Assessment Task	Formative/Summative
8	Monday 13 March	Extended Response Research Task	Formative

### Term Two – Wheat Production

Week	Date	Assessment Task	Formative/Summative
8	Tuesday 30 May	Extended Agricultural Investigation: Factors affecting plant production	Formative

