

ACADEMIC PROGRAMS

Semester I

Year 12

Agricultural Science

FAIRHOLME SCIENCE DEPARTMENT

Course: Grade 12 Agriculture

Outline: SEMESTER 1, 2017

Introduction:

Students will examine the anatomy and physiology of reproductive systems in animals and plants. Factors affecting growth and development. Hormones and factors affecting fertility as well as techniques for improving reproductive performance.

Breeding & genetics of both plant and animals. They consider strategies to manage climate extremes; possible applications of developments in new reproductive and genetic technologies and innovations; using gene mapping etc.

Unit 3: Reproduction, Growth and Genetics

Term One – Poultry Production – Growth and development

- Hormones & growth in plants and animals
- Body composition and factors affecting carcass composition
- Growth curves and growth rates

Excursion: McLean's Poultry Farm.

Term Two – Genetics & Reproduction

- Reproductive systems
- Factors affecting fertility
- Techniques for improving reproductive performance
- Chromosomes and genes
- Breeding systems and breeding programs on farm
- Genetic engineering

Assessment Summary:

Term One – Growth & Development

Week	Date	Assessment Task	Formative/Summative
8	Friday 17 March	Extended Agricultural Investigation: Factors affecting animal production	Summative

Term Two – Genetics & reproduction

Week	Date	Assessment Task	Formative/Summative
8	17-18 May	Examination Extended Response Genetic and reproductive technologies	Summative
	Exam Block	Examination Short Response	Summative

