



Government of **Western Australia**
School Curriculum and Standards Authority



ANIMAL PRODUCTION SYSTEMS

GENERAL COURSE

Externally set task

Sample 2016

Note: This Externally set task sample is based on the following content from Unit 3 of the General Year 12 syllabus.

Breeding and improvement

- aims of breeding and selection, including
 - profitability
 - market requirements
 - environmental conditions
- sources of genetic variation
- selection criteria, including subjective and objective characteristics

Animal nutrition

- feed rations for maintenance, growth and reproduction

Animal health

- impact of pests and diseases on production systems

Economics, finance and markets

- marketing options for animal products

In future years, this information will be provided late in Term 3 of the year prior to the conduct of the Externally set task. This will enable teachers to tailor their teaching and learning program to ensure that the content is delivered prior to the students undertaking the task in Term 2 of Year 12.

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Animal Production Systems

Externally set task

Working time for the task: 60 minutes

Total marks: 38 marks

Weighting: 15% of the school mark

1(a) What is genetic variation, and why is it important to animal production systems? (4 marks)

(b) Using an example, describe a crossbreeding system, and describe how producers can use it to optimise profitability. (4 marks)

2. Describe how an animal breeding and selection program can be influenced by:

(a) The need to be profitable (3 marks)

(b) Market requirements (3 marks)

(c) Environmental conditions (3 marks)

3. Using an animal production system of your choice, identify **one (1)** objective and **one (1)** subjective criterion used to select suitable animals for breeding. Describe the importance of each to profitability. **(6 marks)**

Animal production system _____

- (a) Objective criterion and its importance **(3 marks)**

- (b) Subjective criterion and its importance **(3 marks)**

4. Using examples, describe how the following factors need to be addressed to optimise breeding success and to maximise survival of offspring: **(6 marks)**

(a) Animal health **(3 marks)**

(b) Animal nutrition **(3 marks)**

- 5(a) Identify **three (3)** factors to consider before selecting a selling method for a selected animal product. (3 marks)

Selected animal product _____

- (b) Describe **one (1)** marketing system that could be used for your animal product, and state **two (2)** positive and **two (2)** negative aspects associated with it. (6 marks)
