



**Notice of Assessment Task**  
**Year 12 Agriculture**  
**Reproductive Hormone Task**

<b>Date of initial notification:</b> 19 March 2025 Week 8, Term 1	<b>Date of submission of task:</b> 2 April 2025 Week 10, Term 1
<b><i>This is a change of date from the original Assessment Schedule and Scope and Sequence</i></b>	

<b>Teacher:</b> Mrs Gray	<b>Task Number:</b> 2
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<b>Time Allowed:</b> 2 weeks	<b>Weighting of task:</b> 25%
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<b>Course Component/Focus area/topic/module:</b> Animal Production
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### The Task

In this task students will create a **REPORT** on the role of hormones in animal production and the factors affecting animal fertility.

Within the task, students are required to consider the following

- Comprehensively describe the function/role in reproduction of the male hormone testosterone
- Comprehensively describe the function/role in reproduction of the following female hormones
  - o Follicle stimulating hormone (FSH)
  - o Luteinising hormone (LH)
  - o Oestrogen
  - o Progesterone
  - o Relaxin
- Using a comprehensive flow diagram, accurately and clearly detail the movement of hormones associated with reproduction throughout the body.
- Discuss how the knowledge of reproductive anatomy and hormones is used to manage and manipulate reproduction and reproductive technologies in animal reproduction.
- Identify FOUR factors that affect the fertility of farm animals and explain how each affects fertility, providing TWO specific examples for each.

### Task Outline

#### Pre-submission

1. Students will engage in in-class learning relating to male and female hormones.
2. Students will engage in in-class guided research relating to the movement of hormones.
3. Students will engage in in-class research relating to artificial insemination and embryo transfer.
4. Students will engage in in-class research relating to factors impacting fertility of farm animals.
5. Students will utilise a scaffold to develop their report on reproductive hormones in their own time.

#### In-class on Submission

6. Students will finalise their report during the submission period.
7. Students will complete a bibliography alongside their report.
8. Students will submit their report via google classroom OR hardcopy

#### Instructions

- Ensure your name, class, and teacher is clearly labelled.
- All work must be original and completed individually, submitted as hardcopy or via Google Classroom  
(NOTE: Any work deemed to be plagiarised will be treated as a non-serious attempt and dealt an appropriate consequence in accordance with the school and faculty policy)

#### Outcomes/Competencies to be assessed in this task:

- H2.2 – describes the inputs, processes and interactions of animal production systems  
H3.4 – evaluates the management of the processes in agricultural systems

#### Feedback: How will I receive feedback on this task?

- Written
- Whole class

# MARKING GUIDELINES

## YEAR 12 AGRICULTURE – REPRODUCTIVE TECHNOLOGIES

	Limited	Basic	Sound	High	Outstanding
<b>Male Hormone</b>	Not attempted or non-serious attempt	Function stated, no link or mention to reproduction	Function explained with minimal detail. Reproduction mentioned but not linked	Function explained with some detail, mentioning its role in reproduction.	Function explained with extensive detail, outlining the role it plays in reproduction.
	<i>0 marks</i>	<i>1 mark</i>	<i>2 marks</i>	<i>3 marks</i>	<i>4 marks</i>
<b>Female Hormones</b>	Not attempted or non-serious attempt	Functions stated, OR most hormones missing	Functions explained with minimal detail, OR some hormones completed or incorrect correct	Functions explained with some detail, outlining the role it plays in reproduction. OR most hormones completed and correct	Functions explained with extensive detail, outlining the role it plays in reproduction. All hormones completed and correct
	<i>0 marks</i>	<i>1 – 2 marks</i>	<i>3 – 5 marks</i>	<i>6 – 8 marks</i>	<i>9 – 10 marks</i>
<b>Movement of hormones</b>	Not attempted or non-serious attempt	1 flow chart inserted OR both incorrect	Flow charts inserted, only 1 correct OR brief description	Flow charts inserted with some description	Flowcharts inserted with a brief explanation
	<i>0 marks</i>	<i>1 marks</i>	<i>2 marks</i>	<i>3 marks</i>	<i>4 marks</i>
<b>Reproductive technologies</b>	Not attempted or non-serious attempt	Techniques mentioned and steps stated. No other explanation included.	Minimal description of both Artificial insemination and embryo transfer including some steps for both, OR some hormones involved in both OR some benefits of each technology and their limitations	Description of both Artificial insemination and embryo transfer including most steps for both, some hormones involved in both, some benefits of each technology and their limitations	In depth description of both artificial insemination and embryo transfer including steps for both, hormones involved in both, benefits of each technology and their limitations.
	<i>0 marks</i>	<i>1 – 2 marks</i>	<i>3 – 5 marks</i>	<i>6 – 8 marks</i>	<i>9 – 10 marks</i>
<b>Factors affecting Fertility</b>	Not attempted or non-serious attempt	Less than 3 factors stated in a list. No examples	More than 3 factors listed. Some examples included but not for all factors	4 factors listed with basic statement of affects on fertility. An attempt at including examples for each factor.	More than 4 factors listed with a detailed explanation of affects on fertility for each factor. 2 examples included for each factor.
	<i>0 marks</i>	<i>1 – 3 marks</i>	<i>4 – 6 marks</i>	<i>7 – 9 marks</i>	<i>10 – 12 marks</i>
<b>Bibliography</b>	Not Attempted	Less than 3 references	3-4 references	More than 5 references.	
	<i>0 marks</i>	<i>1 mark</i>	<i>2 marks</i>	<i>3 marks</i>	
<b>Report</b>	Not attempted	Clear report structure, spelling and grammar	Excellent report structure, spelling and grammar		
	<i>0 marks</i>	<i>1 mark</i>	<i>2 marks</i>		
<b>TOTAL MARKS</b>	/45		%	GRADE	RANK

## TEACHER FEEDBACK

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- *If you are absent on the day that the task is due, you MUST see your teacher the next day (not your next lesson) that you are present at school to show your medical certificate or produce a misadventure form (refer to your Assessment Booklet for a copy of the form).*
- *Exemptions and extensions for any other reason will only be determined at the discretion of the Head Teacher, and only in extenuating circumstances. You must advise the Head Teacher as soon as possible if you know you are unable to submit the task on the due date.*
- *All appeals must be lodged within 48hrs of receipt of the task. Students who may consider an appeal are not permitted to take their task home. The original task cannot be altered in any way prior to the appeal process. See Assessment booklet for details.*

# Animal Reproduction – Scaffold

<p><b>General Statement</b> – defining the topic.</p>	<p>An introduction to the report</p>
<p><b>Body:</b> a series of paragraphs, each describing different aspects of the topic/subject. You should use subheadings.</p>	<p><b>Subheading 1:</b> Function/role in reproduction of male hormone</p>
	<p>Paragraphs and/or diagrams <i>You may need several here</i></p>
	<p><b>Subheading 2:</b> Function/role in reproduction of female hormones</p>
	<p>Paragraph and/or diagrams <i>You may need several here</i></p>

	<b>Subheading 3:</b> Flow Diagram representing movement of hormones
	Paragraphs and/or diagrams <i>You may need several here</i>

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	<p><b>Subheading 4:</b> How knowledge of reproductive anatomy and hormones is used to manage and manipulate reproduction and reproductive technologies</p> <p>Paragraph and/or diagrams: <i>You may need several here</i></p> <p><b>Subheading 5:</b> How a range of factors affect the fertility of farm animals</p> <p>Paragraphs and/ diagrams <i>You may need several here</i></p>
<p><b>Conclusion</b> – A brief summary of the importance of animal hormones in the role of animal production on farms.</p>	

<b>Bibliography</b>	Correctly constructed and existing of 5 or more references, using Harvard Referencing.
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