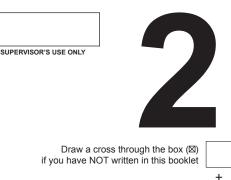
No part of the candidate's evidence in this exemplar material may be presented in an external assessment for the purpose of gaining an NZQA qualification or award.





91294

Mana Tohu Mātauranga o Aotearoa New Zealand Qualifications Authority

Level 2 Agricultural and Horticultural Science 2023 91294 Demonstrate understanding of how NZ commercial management practices influence livestock growth and development

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of how management practices influence livestock growth and development in commercial production in New Zealand.	Demonstrate in-depth understanding of how management practices influence livestock growth and development in commercial production in New Zealand.	Demonstrate comprehensive understanding of how management practices influence livestock growth and development in commercial production in New Zealand.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

Do not write in any cross-hatched area $\left(\int_{0}^{U(Write int}) \right)$. This area will be cut off when the booklet is marked.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

You are required to discuss THREE livestock species of your choice.

BEFORE choosing livestock, carefully read ALL the questions to ensure your selections will allow you to meet all the requirements.

QUESTION ONE: Livestock development and feeding

Throughout their life stages, livestock require different types of feed as they grow and develop.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions Two and Three.

Livestock for Question One: Cattle

(a) How do the growth and development of your chosen livestock change from birth through to the harvest of products? Provide details of the main factors that drive these changes.

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(b) Evaluate how growers adapt their practices to match seasonal changes in feed supply to ensure growth and development are not compromised.

In your answer consider the impact on the economics of production and timing.

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QUESTION TWO: Livestock health

To ensure that livestock are able to reach their potential for growth and development, producers must carry out animal health practices throughout the life of the livestock.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions One and Three.

Livestock for Question Two:

Select your health practice for your chosen livestock.

Health practice: Manching

(a) How does this animal health practice have a positive impact on the growth and development of your chosen livestock?

positive input co gouth and ferelopment has on Vierching internal percontes Derause Ca pensiles ecanse nution de ange ntel rasto and Car DOSITIVE (expine an 0 evelopment.

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7 Evaluate the effectiveness of this health practice by explaining how the improvements in growth and development impact the quality of the products and the economics of production. (b) isachatie heath padice barreso List Joahn YOU be nald Small because Sheep. a Aconing and devolary cread So, Lecause nterna the all Jaking d Pulas CAR reass haspit any energy grou drencheo Sh has been develop 10.90 dienched praise blanch ycting nu ente 0 evelo in Jacks a N berens uj' Cod ct. a 10 1 MO dianci sta ni 0 make ng 0 Mad Da muz Men inc.ul 0 41 al Agricultural and Horticultural Science 91294, 2023 01069

QUESTION THREE: Breeding practices

The breeding practices chosen by livestock producers can have an important impact on the growth and development of the resulting offspring.

Select your livestock for this question. The livestock you select for this question must be different to those you select for questions One and Two.

Livestock for Question Three: Horse

Select a breeding practice for your chosen livestock.

Breeding practice: Actifual intermedien

(a) How does this breeding practice impact the growth and development of the offspring that result from this practice?

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(b) Evaluate the use of this breeding practice in terms of growth and development by comparing it with an alternative breeding practice.

In your answer discuss the impacts on the quality and quantity of livestock produced from these practices.

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Merit

Subject: Agricultural and Horticultural Science

Standard: 91294

Total score: 17

Q	Grade score	Marker commentary	
One	M6	The candidate explained details of the body systems that develop through the livestock's lifecycle and articulated the change of feed with seasonal variations in some detail.	
Two	M6	The candidate established a clear link between the actions of the parasites and the impact this has on growth and development.	
Three	M5	The candidate explained what characteristics would be selected for artificial insemination with links to the growth and development of horses.	