Year 9 Agriculture

Assessment Task 2 2024

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| **TOPIC**: Research Portfolio – Beef in Australia | **MARKS:** 40 |
| **SUBMISSION REQUIREMENTS:**  Task is to be uploaded to CANVAS **Term 2 Week 7** by **Friday 14th June 2024** | **WEIGHTING:**  30% |
| **OUTCOMES TO BE ASSESSED:**  **AG5-5** **Investigates** and **applies** responsible marketing principles and processes  **AG5-7** **Explains** and **evaluates** the impact of management decisions on animal production enterprises  **AG5-8** **Evaluates** the impact of past and current agricultural practices on agricultural sustainability  **AG5-9** **Evaluates** management practices in terms of profitability, technology, sustainability, social issues and ethics  **AG5-10** Implements and **justifies** the application of animal welfare guidelines to agricultural practices  **AG5-12** Collects and **analyses** agricultural data and communicates results using a range of technologies | |
| **DIRECTIONAL VERBS:**  **Analyse** Identify components and the relationship between them; draw out and relate  implications  **Applies** Use, utilise, employ in a particular situation  **Evaluate** Make a judgement based on criteria; determine the value of  **Explains**  Relate cause and effect; make the relationships between things evident; provide why and/or how.  **Investigates** Plan, inquire into and draw conclusions about  **Justify** Support an argument or conclusion | |
| **TASK DESCRIPTION:**  **Students will need to present two pieces of written work.**  **Part A** Students are to select two tasks from a range of options that **explain**, **evaluate** and **justify** the management decisions, animal welfare guidelines and data specifically relating to the beef cattle enterprise.  **Part B** Students **evaluate** the impact of past and current agricultural practices on agricultural sustainability in relation to beef cattle industry of Australia by answering the following question:  ***“Evaluate*** *how beef cattle farmers have incorporated both past and European land management practices to promote sustainable beef cattle farming production.”* | |

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| **ASSESSMENT CRITERIA:**  **Part A** AG 5.5, AG5.7, AG 5.10, AG 5.12 **(30 marks)**  The grid below contains a choice of tasks that are related to the activities and learning you have studied in Beef Cattle Production.  You are to select **TWO** tasks to complete and submit all through CANVAS or as otherwise instructed.  *Choice of Activities*  In your selection, please note that you can choose only Option 1 **OR** Option 2, but **NOT** both.   |  |  |  | | --- | --- | --- | | **Option 1.**  Construct a find a word to introduce the important vocabulary for the unit. Include 15-20 words to find.  AND  Create a crossword using terms related to cattle health, pests and diseases. Include at least 15 clues.  Answers are to be included. | **Option 2.**  Design your own Quiz that could be used to summarise beef cattle production.  Your quiz must include at least 20 questions and an image for each question.  A minimum of three (3) different styles of questions are to be used, such as but not limited to: multiple choice, true/false, one-word responses, label diagrams, short and long responses.  Answers are to be included. | **Option 3.**  Create a resource such as a PowerPoint, movie or infographic that could be used with year 7 students, to explain the various husbandry practices for beef cattle.  A minimum of five (5) husbandry tasks are required. | | **Option 4.**  Create a PMI Chart for Australia should continue to live export beef cattle.  Include positives to live exports, negatives to live exports, things of interest about live exports.  A minimum of five (5) responses for each component is required. | **Option 5.**  Research a disease that can affect beef cattle. Answer the questions:   * Disease name * Cause of disease * How it is spread * Signs/symptoms * Treatment * Prevention   Present your findings as a PowerPoint. | **Option 6.**  Construct a *story book* that outline the life of a beef cow/bull. Include beef cattle husbandry operations, nutrition and health.  The target audience of the book is 10-year olds.  Include appropriate images to help with your story. |   **Part B - Australian Beef Cattle Industry** AG 5.8, AG5.9 **(10 marks**)  Farmers regularly make decisions on the types of activities they perform on a farm. A major aspect for consideration is the using of sustainable practices to ensure that the land can be used for farming for future generations.   * **Evaluate** how beef cattle farmers have incorporated both past and European land management practices to promote sustainable beef cattle farming production.   Students will be provided with an ALARM template to assist with their written responses for Part B at the end of this notification. The template is NOT to be submitted.  **Additional Information**  The following videos are recommended to be viewed to assist in answering Part B above.   * Applegate: Australian Organic Beef Farmers <https://www.youtube.com/watch?v=zOHovxgBuWA> * Innovative Cattle Stations in Australia – Australian Good Meat <https://www.youtube.com/watch?v=pdISOUfd4fo> * NAPCo “Glenormiston Station’ Boulia QLD – Meat and Livestock Australia <https://www.youtube.com/watch?v=V8iucpjNMGk> * Stanbroke – A family owned Australina beef and cattle company <https://www.youtube.com/watch?v=B1N0HxcI_aw> * This is Aussie Agriclture – Beef Lot Feeding with Mort and Co   <https://www.youtube.com/watch?v=Y1QGWL_rd6c>   * Meet the Smithfield Feedlot Family – Australian Lot Feeders Association <https://www.youtube.com/watch?v=gTX_FYvQeoI> |

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| **ASSESSMENT MARKING CRITERIA** | |
| **PART A: AG 5.5, AG 5.7, AG 5.10, AG 5.12 (30 marks)** |  |
| **Option 1: Find-a-word and Crossword** | **Marks** |
| Develops a comprehensive find-a-word AND crossword that **explains** a range of beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer. BOTH pieces are produced using specific and appropriate agricultural terminology for a classroom environment and presented in a logical and easy to understand format. A comprehensive answer sheet is provided. | 13-15 |
| Develops a thorough find-a-word AND crossword that **explains** a range of beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer although some details may be lacking. BOTH pieces are produced using specific and appropriate agricultural terminology for a classroom environment with some inconsistencies and presented in a logical and easy to understand format. An answer sheet is provided. | 9-12 |
| Develops a sound find-a-word AND crossword that **describes** a range of beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer, although some components may be incomplete or incorrect. BOTH pieces are produced using agricultural language for a classroom environment with some inconsistencies and is presented in a logical format. An answer sheet is provided, although some details may be lacking. | 5-8 |
| Develops a basic find-a-word AND/OR crossword that **describes** some beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer, although several components incomplete or incorrect. ONE or BOTH pieces are produced using simple agricultural terminology. An answer sheet may be provided although is lacking detail. | 4-7 |
| There is evidence of a limited find-a-word OR a crossword that has attempted to use terminology related to the beef cattle industry. | 1-3 |
| **Option 2: The Quiz** | **Marks** |
| Develops a comprehensive quiz that **evaluates** a range of beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer. The quiz uses specific and appropriate agricultural terminology for a classroom environment, includes appropriate diagrams and illustrations, has a range of question types and is presented in a logical and easy to understand format. A comprehensive answer sheet is provided. | 13-15 |
| Develops a thorough quiz that **explains** a range of beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer although some details may be lacking. The quiz uses specific and appropriate agricultural terminology for a classroom environment with some inconsistencies, includes diagrams or illustrations, has some variation to types of questions and is presented in a logical and easy to understand format. An answer sheet is provided. | 9-12 |
| Develops a sound quiz that **describes** some beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer, although some components may be incomplete or incorrect. The quiz using agricultural language for a classroom environment with some inconsistencies, diagrams may be included, little variance in question types and is presented in a logical format. An answer sheet is provided, although some details may be lacking. | 5-8 |
| Develops a basic quiz that **describes** some beef cattle management practices including husbandry, animal welfare, animal health such as pest and diseases, technology and management decisions made by the farmer, although several components are incomplete or incorrect. The quiz uses simple agricultural terminology, includes some diagrams/illustrations and question types are similar. An answer sheet may be provided although is lacking detail. | 4-7 |
| There is evidence of a limited quiz that has attempted to use terminology and questions related to the beef cattle industry. | 1-3 |
| **Option 3: PowerPoint, Movie or Infographic** | **Marks** |
| Develops a comprehensive PowerPoint, movie or infographic that **explains** a range of beef cattle husbandry practices including drenching, vaccinating, mouthing, tagging, dehorning and condition scoring. Includes the use of uses specific and appropriate agricultural terminology for a classroom environment. Includes appropriate diagrams, illustrations or videos which supports the information, uses a range of techniques to engage the viewers including colour, shapes and font selection. | 13-15 |
| Develops a thorough PowerPoint, movie or infographic that **explains** a range of beef cattle husbandry practices including drenching, vaccinating, mouthing, tagging, dehorning and condition scoring although some details may be lacking. The PowerPoint, movie or infographic uses specific and appropriate agricultural terminology for a classroom environment and includes diagrams or illustrations or videos which support the information, with some inconsistencies. A range of techniques to engage the viewers including colour, shapes and font selection has been provided. | 9-12 |
| Develops a sound PowerPoint, movie or infographic that **describes** a range of beef cattle husbandry practices including drenching, vaccinating, mouthing, tagging, dehorning and condition scoring although some components may be incomplete or incorrect. The PowerPoint, movie or infographic uses agricultural language with some inconsistencies, some diagrams are included, and some variance presentation techniques. | 5-8 |
| Develops a basic PowerPoint, movie or infographic that **describes** some beef cattle husbandry practices, although several components are incomplete or incorrect. The PowerPoint, movie or infographic uses simple agricultural terminology, diagrams/illustrations may be included. | 4-7 |
| There is evidence of a limited PowerPoint, movie or infographic that has attempted to show husbandry practices related to the beef cattle industry. | 1-3 |
| **Option 4: PMI Chart** | **Marks** |
| Develops a comprehensive Plusses, Minus and Interesting things (PMI) Chart that **evaluates** Australia’s involvement in the live beef cattle export industry. The chart includes a range of examples for each component that specifically relate to the beef cattle industry, animal welfare and impacts on the Australian economy with reference to export of live beef cattle. | 13-15 |
| Develops a thorough PMI Chart that **explains** Australia’s involvement in the live beef cattle export industry although some details may be lacking. The chart includes a range of examples for each component that specifically relate to the beef cattle industry, animal welfare and impacts on the Australian economy with reference to export of live beef cattle with some inconsistencies. | 9-12 |
| Develops a sound PMI Chart that **describes** Australia’s involvement in the live beef cattle export industry although some components may be incomplete or incorrect. The PMI Chart includes a range of examples for each component with some inconsistencies. | 5-8 |
| Develops a basic PMI Chart that **describes** the live beef cattle export industry although some components may be incomplete or incorrect. The PMI Chart shows some examples for each component. | 4-7 |
| There is evidence of a limited PMI Chart that has been developed, relating to the live beef cattle exports industry. | 1-3 |
| **Option 5: Disease Research** | **Marks** |
| Develops a comprehensive PowerPoint that **evaluates** a known disease that affects beef cattle in Australia. The presentation includes comprehensive research into the cause, how its spread, signs/symptoms, treatment and prevention measures for the named disease. Appropriate diagrams and illustrations are provided to support the information. | 13-15 |
| Develops a thorough PowerPoint that **explains** a known disease that affects beef cattle in Australia, although some details may be lacking. The presentation includes research on a range of aspects including the cause, how its spread, signs/symptoms, treatment and prevention measures for the named disease with some inconsistencies. Appropriate diagrams and illustrations are provided. | 9-12 |
| Develops a sound PowerPoint that **describes** a disease of beef cattle in Australia, although some components may be incomplete or incorrect. The PowerPoint may include the cause, how its spread, signs/symptoms, treatment and prevention measures for the named disease with some inconsistencies. Diagrams/illustrations may be provided. | 5-8 |
| Develops a basic PowerPoint that **describes** a disease of beef cattle, although some components may be incomplete or incorrect. The PowerPoint may include a diagram. | 4-7 |
| There is evidence of a limited PowerPoint developed, relating to a disease that affects beef cattle. | 1-3 |
| **Option 6: Storybook** | **Marks** |
| Develops a comprehensive storybook that **evaluates** the life of a beef cow/bull in Australia. The storybook shows comprehensive understanding of beef cattle production and includes information about husbandry practices, nutrition and health. Appropriate diagrams and illustrations are provided to support the information. The storybook is creative and uses appropriate language and terminology for the target audience. | 13-15 |
| Develops a thorough storybook that **explains** the life of a beef cow/bull in Australia, although some details may be lacking. The storybook shows thorough understanding of beef cattle production and includes information about husbandry practices, nutrition and health with some inconsistencies. Appropriate diagrams and illustrations are provided, uses correct terminology for the target audience with some inconsistencies. | 9-12 |
| Develops a sound storybook that **describes** the life of a beef cow/bull in Australia, although some components may be incomplete or incorrect. The storybook may include information about husbandry practices, nutrition and health some inconsistencies. Diagrams/illustrations may be provided, relevant terminology used for target audience with some inconsistencies. | 5-8 |
| Develops a basic storybook that **describes** the life of beef cattle, although some components may be incomplete or incorrect. The storybook may include a diagrams/illustrations and language for target audience. | 4-7 |
| There is evidence of a limited storybook developed, relating to beef cattle. | 1-3 |

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| **Part B: Australian Beef Cattle Industry (10 marks) AG 5.8, AG 5.9** |  |
| **Evaluate** how beef cattle farmers have incorporated both past and European land management practices to promote sustainable beef cattle farming production. | **Marks** |
| Comprehensively **evaluates** a range of sustainable agricultural land management practices in the beef cattle industry with regards to past AND current agricultural practices. The response will provide an extensive **evaluation** of the impact of the efficiency of each land management practice and the affects each practice has on the beef cattle industry. | 9-10 |
| Effectively **explains** a range of sustainable agricultural land management practices in the beef cattle industry with regards to past AND current agricultural practices although some details may be lacking. The response will provide a thorough **evaluation** of the impact of the efficiency of each land management practice and the affects each practice has on the beef cattle industry, with some inconsistencies. | 7-8 |
| Soundly **describes** a sustainable agricultural practice in the beef cattle industry with regards to past AND current agricultural practices with some details lacking. The response will provide **description** of the impact of the efficiency of each land management practice and the affects each practice has on the beef cattle industry, with some inconsistencies.  OR  Effectively **explains** a sustainable agricultural practice in the beef cattle industry with regards to past OR current agricultural practices with some details lacking. The response will provide **explanation** of the impact of the efficiency of a land management practice and the affects it has on the beef cattle industry, with some inconsistencies. | 5-6 |
| Provides a basic **description** of a sustainable practice in the beef cattle industry although some components may be incomplete or incorrect. The response may include a **description** of a land management practice and relate it to the beef cattle industry, with some inconsistencies. | 3-4 |
| There is evidence of a limited understanding of sustainable practices, relating to the beef cattle industry. | 1-2 |

***Part B- Australian Beef cattle Industry. AG 5.8, AG5.9***

Farmers regularly make decisions on the types of activities they perform on a farm. A major aspect for consideration is the using of sustainable practices to ensure that the land can be used for farming for future generations.

* **Evaluate** how beef cattle farmers have incorporated both past and European land management practices to promote sustainable beef cattle farming production.

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| **Identify** | **Describe** | **Explain** | **Analyse** | **Evaluate** |
| **Identify land management practices for past farmers (Aboriginal)** | **Describe the features/components for each farming practice** | **How is this land management system sustainable and how efficient is it?** | **Discuss why each land management system affects beef cattle enterprises. Include examples of positive and negatives effects for each)** | Use your analysis to give an opinion to the best sustainable land management system, and why. Also give reasons for using each system, with the examples, for using each system for a particular farm setting and reasons why the choice was made by the farmer. Provide **your overall** opinion and why (backed up with examples and reasons) |
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| **Identify land management practices for European farmers** | **Describe the features/components for each farming practice** | **How is this land management system sustainable and how efficient is it?** | **Discuss why each land management system affects beef cattle enterprises. Include examples of positive and negatives effects for each)** |  |
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Use the information written in the ALARM scaffold above to answer the following question.

**Evaluate** how beef cattle farmers have incorporated both past and European land management practices to promote sustainable beef cattle farming production. (10 marks)

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