



Task Number	2	Task Name	Agricultural Research Task
Course	Mandatory Technology (Food)	Faculty	TAS
Teacher	Miss Hartland	Head Teacher	Miss Godden
Issue date	Term 2, Week 5	Due date	Term 2, Week 8, 21/05/24
Focus (Topic)	Food and Agriculture in Australia	Task Weighting	25%

Outcomes

TE4-1DP designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities

TE4-3DP selects and safely applies a broad range of tools, materials and processes in the production of quality projects

TE4-6FO explains how the characteristics and properties of food determine preparation techniques for healthy eating

TELS-6AG describes how food and fibre are produced

Task description

Australian agriculture is all about farming and growing crops, it is vital for our country. It helps provide us with food to eat and materials like wool and cotton for clothing. Agriculture has been a big part of Australia's history and culture, and it continues to play a vital role in our economy, which means how our country makes money.

Something that impacts Australian agriculture significantly is access to water. Water is essential for farming, but it's not always easy to get enough water, especially in some parts of Australia where it doesn't rain much. That's why using water efficiently on farms is important.

Part One:

You are required to research one of the following water saving system used on Australian farms

- a. Drip Irrigation
- b. Rainwater Harvesting
- c. Mulching
- d. Cover Crops

- e. Soil Moisture Monitoring
- f. Crop Rotation
- g. Efficient Watering Schedules

With your researched information you will design a Canva poster/Google Slides for your chosen water saving technique, it will need to include the following information:

- a. Title: "Saving Water on Australian Farms"
- b. Information about your researched water-saving technique, including how it works and its benefits.
- c. Visuals: Include drawing to support your information.
- d. Tips for Farmers: provide practical tips and recommendations for farmers to implement the water-saving technique on their farms.
- f. Bibliography using 'Cite this for me' (<https://www.citethisforme.com/>) in alphabetical order. Minimum five (5) cites.

Part Two:

Design a fruit and vegetable garden for your school or community. You will need to design your garden to include the following, you can create your garden online at <https://www.gardena.com/int/garden-life/garden-planner/>, once you have designed your garden you can download it and open it in Google Docs to include the following information.

- Layout of the garden, including pathways and plant beds.
- Labels for each plant.
- Information about the growing time and care for each plant.
- Your researched water saving system.
- Plan the maintenance of your garden. Describe how you will care for the plants, including the watering system you researched in part one, weeding, and protecting them from pests.

Then upload to your google classroom for marking.

**You need to consider what fruit and vegetables grow well together, do they need the same amount of water, sun, fertiliser ect.

Marking Guidelines

Part 1	15-13	12-10	9-7	6-4	3-0
Content	The poster provides outstanding and accurate information about the chosen water-saving	The poster contains high quality information about the chosen water-saving technique, including how it	The poster includes sound information about the chosen water-saving technique,	The poster provides basic information about the chosen water-saving technique, but it	The poster includes limited information about the chosen water-saving technique,

	technique, including a detailed explanation of how it works and its benefits. The information is presented in a clear, concise, and engaging manner.	works and its benefits. The content is mostly clear and well-organized.	explaining how it works and its benefits, though some areas could be more detailed or organized better.	lacks depth, clarity, and organization.	making it difficult to understand how it works and its benefits.
	5	4	3	2	1
Visuals and Drawings	The drawings and visuals support the information to an outstanding level, are highly relevant, and enhance the overall clarity and appeal of the poster.	The drawings and visuals are relevant and generally support the information to a high standard provided on the poster.	The drawings and visuals provide sound support for the information, but they could be more relevant and better integrated.	The drawings and visuals are basic and somewhat relevant to the content.	The drawings and visuals are limited or do not relate to the content.
	5	4	3	2	1
Tips for Farmers	The practical tips and recommendations for farmers are outstanding , well-explained, and offer valuable insights for implementing the water-saving technique effectively.	The practical tips and recommendations for farmers are high and provide valuable guidance for implementing the water-saving technique.	The practical tips and recommendations for farmers are sound , but they could be more detailed or clearer in their instructions.	The practical tips and recommendations for farmers are basic and lack sufficient detail.	The practical tips and recommendations for farmers are limited or missing.
Part 2	15-13	12-10	9-7	6-4	3-0
Garden Layout and Labels	The garden layout is outstanding , well-designed, with clear pathways and plant beds, and each plant is appropriately labeled. The design maximizes space and ensures optimal plant placement.	The garden layout is well-planned to a high standard, with mostly clear pathways and plant beds, and each plant is labeled.	The garden layout is sound , includes pathways and plant beds, but it could be more organized or detailed, and some plants may lack clear labeling.	The garden layout includes basic information about pathways and plant beds, and plant labels are limited.	The garden layout is limited in structure, and plant labels are missing or unclear.
	10-8	7-5	4-3	2-1	0
Information	The information	The information	The information	The information	The information

on About Plants	presented to an outstanding standard about each plant includes growing time, care instructions, water requirements, sunlight needs, and fertilization recommendations. The details are thorough, accurate, and well-presented.	presented to a high standard about each plant includes growing time, care instructions, water requirements, sunlight needs, and fertilization recommendations. The details are mostly clear and accurate.	about each plant includes sound growing time, care instructions, water requirements, sunlight needs, and fertilization recommendations, but it could be more comprehensive and organized.	about each plant is basic and lacks clarity or some essential details.	about each plant is limited , making it challenging to understand their specific requirements.
	5	4	3	2	1
Water Saving System and Maintenance Plan	The maintenance plan incorporates the researched water-saving system to an outstanding standard, considering watering schedules, weeding, and pest protection. It demonstrates a deep understanding of plant care.	The maintenance plan includes the researched water-saving system to a high standard and covers essential aspects of plant care, though some areas could be more detailed.	The maintenance plan is included to a sound standard the researched water-saving system but lacks thorough integration and specific details.	The maintenance plan includes basic information about the researched water-saving system and lacks depth in plant care considerations.	The maintenance plan is limited to incorporating the researched water-saving system or adequately address plant care.
Bibliography	A Bibliography with five (5) sources, in alphabetical order and using cite this for me.	A Bibliography with five (5) sources using cite this for me.	A Bibliography with three (3) sources using cite this for me.	A Bibliography with five (5) sources.	A Bibliography with sources expressed as a website.

Total: ___/55

Teacher Comment:
