


ASSESSMENT TASK NOTIFICATION

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|  | <p>SUBJECT: Technology - Agriculture</p> <p>YEAR GROUP: 7/8</p> <p>TASK TITLE: Design tasks</p> | <p>_____</p> <p>Student Name</p> <p>Submitted To:</p> <p>L Buckley</p> |
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| Name of Unit: | Food and fibre | | | | |
| Type of Task: | Design tasks | | | | |
| Due Date: | | Term: | 3 | Week: | Task 1 - Week 6 Task 2 - Week 9 |
| Weight: | Task 1 - 50%, Task 2 - 50% | | | | |

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| OUTCOMES ASSESSED | <p>4.1.1 applies design processes that respond to needs and opportunities in each design project.</p> <p>4.2.1 generates and communicates creative design ideas and solutions</p> <p>4.2.2 selects, analyses, presents and applies research and experimentation from a variety of sources.</p> <p>4.4.1 explains the impact of innovation and emerging technologies on society and the environment</p> <p>4.5.2 produces quality solutions that respond to identified needs and opportunities in each design project.</p> |
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DESCRIPTION OF ACTIVITIES

TASK 1 – VEGETABLE GARDEN DESIGN

Students are to design a vegetable garden for their own home using a website which will be discussed in class. The design should promote sustainable living practices. Other factors to be considered: suitable site/location, amount/direction of sunlight, appropriate dimensions, planting structures/growing media, irrigation and suitable plants. A list of supplies required to complete the project will be handed in with the final vegetable garden design.

TASK 2 – DESIGN AN APP, INNOVATION or INVENTION

Students will design their own app, innovation or invention to assist in overcoming issues experienced in the production of food and fibre, contemplating the role technology and innovation has in making farming more productive and sustainable.

Students:

- Imagine you are an inventor who works in agriculture or is an agricultural scientist.
- Select an agricultural problem or issue that you have already researched in class.
- Invent something that would make farmers' lives easier, produce more food or fibre, improve sustainable practices or solve other problems.
- Present a digital presentation of your idea to your teacher and class on "Innovation Day" and discuss how it will make producing food and fibre more productive and sustainable. Include a voice-over with your digital presentation. Your teacher and peers will assess the invention/innovation presented by identifying what they learnt and found interesting.

Development of App, Innovation or Invention:

- Brainstorm possible solutions to the problem.
- What is your invention idea?
- How will your invention solve the problem?
- Will it lead to an increase in food or fibre production?
- Is it cost effective? (do the benefits gained from this innovation outweigh its costs)
- Will it have benefits globally or be specific to one region or country?
- Is it sustainable?
- Draw, label and explain your invention, innovation, app.
- Name your invention, innovation, app.

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| METHOD OF SUBMISSION | TASK 1 – Submit hard copy of vegetable garden design and supply list in class to teacher. TASK 2 – Email to teacher. Presentation in class. |
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MARKING RUBRIC

TASK 1

| CRITERIA | GRADE |
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| Presents an extensive range of design ideas to produce a sustainable vegetable garden. The vegetable garden design suits the intended location, includes irrigation, appropriate plants and an extensive supplies list. | A |
| Presents a comprehensive range of design ideas to produce a sustainable vegetable garden. The vegetable garden design suits the intended location, includes irrigation, appropriate plants and a comprehensive supplies list. | B |
| Presents a satisfactory range of design ideas to produce a sustainable vegetable garden. The vegetable garden design took into consideration most of the following factors - suits the intended location, irrigation, appropriate plants and extensive supplies list. | C |
| Presents a basic range of design ideas to produce a vegetable garden suitable to a specific location. The vegetable garden design contained some of the following factors - suits the intended location, includes irrigation, appropriate plants and a supplies list. | D |
| Presents a limited range of design ideas to produce a vegetable garden suitable to a specific location. | E |

TASK 2

| CRITERIA | GRADE |
|--|-------|
| Presents, generates and communicates an excellent design idea to respond to an identified need. Communicates an excellent understanding of how technology could be used to improve productivity and sustainability in farming food and fibre. | A |
| Presents, generates and communicates a commendable design idea to respond to an identified need. Communicates a high understanding of how technology could be used to improve productivity and sustainability in farming food and fibre. | B |
| Presents, generates and communicates a sound design idea to respond to an identified need. Communicates a sound understanding of how technology could be used to improve productivity and sustainability in farming food and fibre. | C |
| Presents, generates and communicates a basic design idea to respond to an identified need. Communicates a basic understanding of how technology could be used to improve productivity and sustainability in farming food and fibre. | D |
| Presents, generates and communicates a design idea which attempts to respond to an identified need. Communicates a limited understanding of how technology could be used to improve productivity and sustainability in farming food and fibre. | E |