|  |  |  |  |
| --- | --- | --- | --- |
| Name:  Teacher : | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Date:\_\_\_\_\_\_\_\_\_ |
|  | **Year 12 Essentials 2021 – Practical Application 2**  **Garden Design**  **Conditions: 3 lessons in class and 1 week to take home.**  **Weighting 7% Due Date: \_\_\_\_\_\_\_\_\_\_\_\_** | **Mark \_\_\_\_\_\_\_\_\_** | |

Now that Danielle has installed her pool, she is continuing her renovation of her backyard. She has reached out to you to help her create her garden. You need to create a plan for the garden that includes a scale drawing and a costing of the main components.

Danielle has the following requirements:

* The garden must also have a seating area, a BBQ area, a garden shed, lawn, a vegetable patch, garden beds and a washing line (appropriate geometric conventions needs to be used on scale drawing) .
* A 0.7m elevated patio area at the rear, that is wheel chair accessible
* A path at least 80cm wide from the patio to the house
* A shaded area
* Pool area to be identified on scale drawing

You will need to write a report to show that you have applied the following steps in the mathematical thinking process:

• interpret the task and gather the key information

• identify the mathematics which could help to complete the task

• analyse information and data from a variety of sources

• apply their existing mathematical knowledge and strategies to obtain a solution

• verify the reasonableness of the solution

• communicate findings in a systematic and concise manner.