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Assessment Task 3 2024



Year 11 NUMERACY Mathematics

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| **TOPICS**: Distance, Area and Volume | **MARKS:** 50marks |
| **SUBMISSION REQUIREMENTS:**  Term 3 Week 8 Wednesday 11th September 2024 |  |
| **OUTCOMES TO BE ASSESSED:**  **N6-1.1:** recognises and applies functional numeracy concepts in practical situations, including personal and community, workplace and employment, and education and training contexts  **N6-1.2:** applies numerical reasoning and mathematical thinking to clarify, efficiently solve and communicate solutions to problems  **N6-2.1:** chooses and applies appropriate operations with whole numbers, familiar fractions and decimals, percentages, rates and ratios to analyse and solve everyday problems  **N6-2.2:** chooses and applies efficient strategies to analyse and solve everyday problems involving metric relationships, distance and length, area, volume, time, mass, capacity and temperature  **N6-3.1:** chooses and uses appropriate technology to access, organise and interpret information in a range of practical personal and community, workplace and employment, and education and training contexts | |
| **DIRECTIONAL VERBS:**  Recognise: To identify mathematical patterns or concepts within a problem.  Choose: To select from various mathematical strategies or options to solve a problem.  Apply: To use mathematical concepts or formulas to solve a specific problem or situation.  Use: To employ mathematical operations or techniques to manipulate numbers or solve equations. | |
| **TASK DESCRIPTION:**  In this task you will renovate and redecorate a bedroom. You can choose to renovate your own bedroom, a friend's bedroom or a fictional bedroom.  There are four parts to the task. Answer all questions in each part. You are required to:   * select and use ICT where appropriate. * show all your calculations. * include references to any websites used. * submit your work as either a hard copy or as a digital file.   Approximately two hours of independent preparation in addition to class time will be required to develop a response.  The completed assignment MUST be submitted no later than **Wednesday 11th September** 2024 (Week 8). | |
| **ASSESSMENT CRITERIA:**  The assessment of your response to this task will be based on:   * + - the accuracy and relevance of your calculations     - the application of numeracy knowledge and skills to this task     - your numerical reasoning and mathematical thinking (NRMT)     - your use of technology to investigate and solve problems. | |

RENOVATION AND REDECORATION

Your task is to renovate and redecorate a bedroom. The bedroom may be your current bedroom, a friend's bedroom, or an imagined one.

The initial phase involves planning. Identify who will use this bedroom and provide details about their age and interests. These details will inform your choices of paint colours, flooring, furniture, and other furnishings.

The next phase requires research, measurements, and calculations. The renovation must include the following elements:

* Repainting the walls with at least two coats of paint.
* Replacing the flooring.

Additionally, you are to personalize the bedroom by adding decorative items such as wall art, posters, a bedside light, a mirror, and bed linen. Provide images of the selected items.

Finally, list the numeracy skills required for renovating and redecorating a room based on your research for this task. Discuss how this knowledge might be useful in the future, including considerations for a real-life renovation and redecoration project.