Unit 3: Data analysis Application task – Sample assessment record

**Outcome 1 (10 marks)***Define and explain key concepts as specified in the content from the areas of study, and apply a range of related mathematical routines and procedures to solve practical problems from a range of everyday and real-life contexts.*

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| Criterion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Appropriate use of mathematical conventions, symbols and terminology |  |  |  |  |  |  |  |  |  |
| Definition and explanation of key concepts |  |  |  |  |  |  |  |  |  |
| Accurate use of mathematical skills and techniques |  |  |  |  |  |  |  |  |  |
|  | Outcome 1 Total |  |

**Outcome 2 (20 marks)***Apply mathematical processes in non-routine practical contexts, including situations with some open-ended aspects requiring investigative, modelling or problem-solving techniques or approaches, and analyse and discuss these applications of mathematics.*

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| Criterion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Identification of important information, variables and constraints |  |  |  |  |  |  |  |  |  |
| Application of mathematical ideas and content from the specified areas of study |  |  |  |  |  |  |  |  |  |
| Analysis and interpretation of results |  |  |  |  |  |  |  |  |  |
|  | Outcome 2 Total |  |

**Outcome 3 (10 marks)***Apply computational thinking, use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results, carry out analysis in practical situations requiring investigative, modelling or problem-solving techniques or approaches.*

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| Criterion | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Appropriate selection and systematic use of technology |  |  |  |  |  |  |  |  |  |
| Application of technology |  |  |  |  |  |  |  |  |  |
|  | Outcome 3 Total |  |
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|  | Task Total |  |

**Unit 3: Application task - pointers for assessment**

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| Outcome 1 *Define and explain key concepts as specified in the content from the areas of study, and apply a range of related mathematical routines and procedures to solve practical problems from a range of everyday and real-life contexts.* |
| Appropriate use of mathematical conventions, symbols and terminology |
| Application of mathematical ideas and content from the specified areas of study  |
| Accurate use of mathematical skills and techniques |

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| Outcome 2 *Apply mathematical processes in non-routine practical contexts, including situations with some open-ended aspects requiring investigative, modelling or problem-solving techniques or approaches, and analyse and discuss these applications of mathematics.* |
| Identification of important information, variables and constraints  |
| Definition and explanation of key concept |
| Analysis and interpretation of results  |

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| Outcome 3 *Apply computational thinking, use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results, carry out analysis in practical situations requiring investigative, modelling or problem-solving techniques or approaches.* |
| Appropriate selection and systematic use of technology  |
| Appropriate selection and systematic use of technology  |