Unit 3: Modelling or problem-solving task – sample assessment record

**Outcome 1 (5 marks)** *Define and explain key concepts as specified in the content from* ***Recursion and financial modelling*** *and apply related mathematical techniques and models in routine contexts*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| 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 (10 marks)** *Select and apply the mathematical concepts, models and techniques from* ***Recursion and financial modelling*** *in a range of contexts of increasing complexity.*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| 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 (5 marks)** *Select and appropriately use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches.*

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| **Criterion** | **Marks** | **1** | **2** | **3** | **4** | **5** |
| Appropriate selection and effective use of technology |  |  |  |  |  |
| Application of technology |  |  |  |  |  |
|  | **Outcome 3 Total** |  |
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|  | **Task Total** |  |

**Modelling or problem-solving task: *Recursion and financial modelling* – pointers for assessment**

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| Outcome 1Define and explain key concepts as specified in the content for ***Recursion and financial modelling*** and apply related mathematical techniques and models in routine contexts. |
| Appropriate use of mathematical conventions, symbols and terminology |
| Application of mathematical ideas and content for *Recursion and financial modelling* |
| Accurate use of mathematical skills and techniques |

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| Outcome 2 Select and apply the mathematical concepts, models and techniques from the core ***Recursion and financial modelling*** in a range of contexts of increasing complexity. |
| Identification of important information, variables and constraints  |
| Definition and explanation of key concepts |
| Analysis and interpretation of results  |

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