Specific assessment grid for Cormathzadrine task

Author(s) of report being assessed: Mark:

Select the appropriate description under each of the three strands by considering the best fit (try not to be too literal – read above and below to get a feel for where you think it should be).

| **Mark** | **Formulating** | **Model development** | **Evaluation and interpretation** |
| --- | --- | --- | --- |
| 1 | No consideration of half life | An indication of amounts taken, e.g. bar chart | Some comment made (not necessarily in context) |
| 2 | Consider different doses/timings with no clear assumptions | Graphs plotted (not necessarily appropriate or correct) | Discuss findings (still may not be in context) |
| 3 | Consider doses/timings with some explanation of relevance | Appropriate graphs plotted | Attempt to relate findings back to the context (may not be correct) |
| 4 | State at least one assumption | Use a spreadsheet to calculate amounts for one specific case | Correct conclusions made related back to findings |
| 5 | State at least one assumption and explain how they will explore the problem | Use a spreadsheet to consider the cumulative effect of more than one dose over at least one day | Make some basic comparisons between different cases |
| 6 | Consider at least two different cases with relevant assumptions made clearly | Consider varying doses/ timings or half lives | Make some conclusions (related back to the problem) from their findings |
| 7 | Consider different half lives as well as different doses/timings | Use a spreadsheet to consider different cases and show results clearly, e.g. graph | Interpret results correctly and make conclusions with consideration of assumptions |

| **Mark** | **Formulating** | **Model development** | **Evaluation and interpretation** |
| --- | --- | --- | --- |
| 8 | As for 7 but also explaining and justifying their assumptions | Make clear comparisons of different cases and develop the model by varying different constraints | As for 7 but also consider relevant practical implications of their findings |
| 9 | Adapting the plan according to their findings, clear reasoning for assumptions throughout | Demonstrate an understanding of the over-simplification of one model and so consider a non-linear relationship | Explain findings coherently throughout to explain their approach but also concludes with insight into the wider problem |
| 10 | As for 9 but also consider the use of an exponential function | Make comparisons of different models, e.g. linear/non-linear (exponential) | As for 9 but also demonstrate understanding of the limitations of the models used |
| *Weighting* | *1* | *0.4* | *0.6* |

Assessor(s):