

## Burning Calories Rubric

Name: \_\_\_\_\_

Analysis: \_\_\_\_\_/6

This criterion assesses the extent to which the student's report provides evidence that the student has selected, recorded, processed and interpreted the data in ways that are relevant to the research question and can support a conclusion.

| Mark  | Data Selection, Recording, Processing and Interpretation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 - 6 | <ul style="list-style-type: none"><li>• The report includes sufficient relevant quantitative and qualitative raw data that could support a detailed and valid conclusion to the research question.</li><li>• Appropriate and sufficient data processing is carried out with the accuracy required to enable a conclusion to the research question to be drawn that is fully consistent with the experimental data.</li><li>• The report shows evidence of full and appropriate consideration of the impact of measurement uncertainty on the analysis.</li><li>• The processed data is correctly interpreted so that a completely valid and detailed conclusion to the research question can be deduced.</li></ul> |
| 3 - 4 | <ul style="list-style-type: none"><li>• The report includes relevant but incomplete quantitative and qualitative raw data that could support a simple or partially valid conclusion to the research question.</li><li>• Appropriate and sufficient data processing is carried out that could lead to a broadly valid conclusion but there are significant inaccuracies and inconsistencies in the processing.</li><li>• The report shows evidence of some consideration of the impact of measurement uncertainty on the analysis.</li><li>• The processed data is interpreted so that a broadly valid but incomplete or limited conclusion to the research question can be deduced.</li></ul>                      |
| 1 - 2 | <ul style="list-style-type: none"><li>• The report includes insufficient relevant raw data to support a valid conclusion to the research question.</li><li>• Some basic data processing is carried out but is either too inaccurate or too insufficient to lead to a valid conclusion.</li><li>• The report shows evidence of little consideration of the impact of measurement uncertainty on the analysis.</li><li>• The processed data is incorrectly or insufficiently interpreted so that the conclusion is invalid or very incomplete.</li></ul>                                                                                                                                                             |
| 0     | <ul style="list-style-type: none"><li>• The student's report does not reach a standard described by the descriptors.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Comments:

Investigation: \_\_\_\_\_/7