**Enzyme Inhibitors – Module 1**

**Worksheet**

*Activity 1*

After viewing the characteristics of enzymes: use your own words to define the term “enzyme”.

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*Activity 2*

Explain the induced fit model of enzyme action.

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*Activity 3*

The dependent variable of this experiment is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The independent variable of this experiment is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Given the method, the research question this experiment is aiming to answer is….

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*Activity 4*

Processed results

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| Working space |

[](https://www.google.com.au/url?sa=i&url=https%3A%2F%2Fmathbits.com%2FMathBits%2FStudentResources%2FGraphPaper%2FGraphPaper.htm&psig=AOvVaw1Gp9Bw35ti6DemYVGwG5QT&ust=1585183695794000&source=images&cd=vfe&ved=0CAIQjRxqFwoTCPCXvNaztOgCFQAAAAAdAAAAABAD)

Identify trends and relationships in the data.

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*Activity 5*

Identify limitations to this experiment.

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State a conclusion.

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Describe one way the experiment could be improved OR extended. Justify.

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**Cognitive Verb Definitions and sentence starters**

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| Cognitive Verb | QCAA Definition | Sentence Starters |
| Define | give the meaning of a word, phrase, concept or physical quantity; state meaning and identify or describe qualities |  |
| Explain | make an idea or situation plain or clear by describing it in more detail or revealing relevant facts; give an account; provide additional information | The process starts with….. |
| Analyse | dissect to ascertain and examine constituent parts and/or their relationships; break down or examine in order to identify the essential elements, features, components or structure; determine the logic and reasonableness of information; examine or consider something in order to explain and interpret it, for the purpose of finding meaning or relationships and identifying patterns, similarities and differences | The raw data was converted from…..to……  The graph/table revealed the following trends:  The data revealed a strong connection between….  The…….increased/decreased as……….increased/decreased. |
| Identify | distinguish; locate, recognise and name; establish or indicate who or what someone or something is; provide an answer from a number of possibilities; recognise and state a distinguishing factor or feature |  |
| Conclude/Deduce | reach a conclusion that is necessarily true, provided a given set of assumptions is true; arrive at, reach or draw a logical conclusion from reasoning and the information given | An examination of data allows the following conclusion to be drawn….  The experiment had the following limitations: |
| Describe | give an account (written or spoken) of a situation, event, pattern or process, or of the characteristics or features of something | A further experiment/investigation could extend this work by…. |