

CIE Biology IGCSE

Analysing results and assessing validity

Flashcards

This work by [PMT Education](https://www.pmt.education) is licensed under [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)



How can data from a table be presented?



How can data from a table be presented?

On a graph.



State the necessary components of a graph.



State the necessary components of a graph.

Labels and units of the x and y axes



What is validity?



What is validity?

The extent to which the results are able to answer the question originally asked in the practical.



State 3 types of errors.



State the 2 types of errors.

Systematic, random and experimenter



What are systematic errors?



What are systematic errors?

Errors that results in the measured values differing by the same amount every time.



What are random errors?



What are random errors?

Errors which do not have an identifiable cause.



What are experimenter errors ?



What are experimenter errors?

Experimenter errors occur through human error e.g. the researcher might misread a measurement, or write something down incorrectly.



How can the reliability of results be improved?



How can the reliability of results be improved?

By repeating the practical until concordant results are obtained, identify and exclude anomalies.



What are confounding variables?



What are confounding variables?

Variables other than the independent variable that may affect the dependent variable.



How might accuracy be limited in making measurements?



How might accuracy be limited in making measurements?

The size of increments of the apparatus used may be limiting.

