

VCE Biology Unit 3 & 4

Chapter 1 - General Skills

Controlled Experiment, an investigation into the effect of an **independent variable** on a **dependent variable**, while keeping all factors constant

Independent Variable, the factor/s that is/are manipulated in an experiment **Dependent Variable**, the factor/s measured in the experiment that are changed when the IV is measured

Controlled Variable, a factor that is kept constant or accounted for throughout the experiment

Research Question, a testable, achievable, and specific question that an investigation sets out an answer

Aim, the objective of an investigation or experiment

Hypothesis, a testable prediction that describes how experimenters expect the dependent variable to change as the independent variable changes

Reliable, describes an experiment, tool or measurement that produces similar results when repeated or reproduced

Repeatable, an experiment/measurement in which the scientists, using the methods they designed, can obtain the same results multiple times

Reproducible, an experiment/measurement in which a group of scientists, using methods designed by others, can obtain the same results as another group's experiment **Valid**, a measurement or experiment that actually tests what it claims to be testing **Precise**, two or more measurements that closely align with each other

Random Error, variation in results caused by uncontrollable conditions between replications, resulting in a less precise spread of readings

Personal Error, mistakes or miscalculations due to human fault

Systematic Error, errors which cause the results to differ by a consistent amount each time, typically due to faulty equipment or calibration, resulting in a less accurate result

Ethics in Biology

- analyse and evaluate bioethical issues using relevant approaches to bioethics and ethical concepts, including the influence of social, economic, legal and political factors relevant to the selected issue

Bioethics, the study of ethical issues pertaining to biology and medicine

Evelyn Bowles - VCE Biology Unit 3 & 4 Study Guide - 2022

Consequences-Based Approach, aims to maximise positive outcomes while minimising negative outcomes

Duty/Rules-Based Approach, promotes the responsibility of the agent above all else, and places importance on the duty of each individual

Virtues-Based Approach, emphasises the individual goodness of the agent, and promotes

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Sebastian Brünink



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