GAC013 Science II: Scientific Principles

GAC Science · Vocabulary in context

Word	Example
practical investigation /ˈpræktɪkl ɪnˌvestɪˈgeɪʃn/	In a **practical investigation**, you collect your own data.
investigation report /ɪnˌvestɪˈgeɪʃn rɪˈpɔːt/	Your **investigation report** describes your method, results and conclusion.
paradigm /ˈpærədaɪm/	A **paradigm** is the main way scientists see a subject at one time.
paradigm shift /ˈpærədaɪm ʃɪft/	Darwin's theory caused a **paradigm shift** in biology.
provisional /prəˈvɪʒənl/	Scientific ideas are **provisional**: new evidence can change them.
hypothesis /haɪˈpɒθəsɪs/	Our **hypothesis** predicts more growth in brighter light.
independent variable /ˌɪndɪˈpendənt ˈveərɪəbl/	The **independent variable** is the one you change.
dependent variable /dɪˈpendənt ˈveərɪəbl/	The **dependent variable** is the one you measure.
control variables /kənˈtrəʊl ˈveərɪəblz/	Keep the **control variables**, such as the temperature, the same.
control group /kənˈtrəʊl gruːp/	The **control group** gets no treatment or a fake one.
Repeat /rɪˈpiːt/	**Repeat** the test three times.
Units /ˈjuːnɪts/	**Units** of the integral are units of y times units of x. $\int_{y} \int_{x}$

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Word	Example
Accuracy /ˈækjʊrəsi/	**Accuracy** means being close to the true value.
precision /prɪˈsɪʒn/	Readings with high **precision** are all very close to each other.
Uncertainty /ʌnˈsɜːtənti/	**Uncertainty** shows how sure we are of a reading.
Peer review /pɪə rɪˈvjuː/	**Peer review** means experts check the work before it is published.
Replication /ˌreplɪˈkeɪʃn/	**Replication** means other scientists repeat the study.
institutions /ˌɪnstɪˈtjuːʃnz/	Schools and hospitals are **institutions**.
Risk /rɪsk/	Wear goggles to reduce the **risk** of eye injury.
Communicating uncertainty /kəˈmjuːnɪkeɪtɪŋ ʌnˈsɜːtənti/	**Communicating uncertainty** means saying how sure you are.