



Specialist Subject Vocabulary-Science



Temperature

How hot or cold a thing, person or place is measured in degrees Celsius, Fahrenheit or Kelvin.

Equipment

The tools required for a specific experiment.

Variable

Able to change or be changed.

Suffix: able- can be done

Root word: Vary

Independent

A value which only changes when the Scientist changes it; it does not depend on the value of another variable.

Prefix: In- not

Root word: depend

Dependent

Something whose value changes due to the experiment performed; it depends on another variable.

Prefix: De- away, down, reverse

Root word: depend

Anomalous

Results that differ from the norm or expected.

Prefix: a/an- not, without

Oxygen

A natural, colourless, reactive gas, breathed in by humans and present in most organic compounds; symbol O.

Thermometer

An instrument for measuring temperature.

Prefix: Therm- heat

Suffix: meter/metre- measure.

Concentration

The amount of a solution in a substance or mixture.

Suffix: tion – act, process or result.

Root word: concentrate

Mitochondria

The tiny structures in cells where glucose and oxygen are turned into energy.



Challenge Vocabulary-Science



Gradient

A slope; in diffusion, a concentration gradient is when particles spread from an area of high concentration to an area of low concentration.

Root word: grade

Photosynthesis

The process in green plants which combines light, water and CO₂ to create nutrients.

Prefix: **Photo-** light; **syn-** together

Root word: thesis-putting, placing

Respiration

The number of times a value occurs in a list of data.

Suffix: **ency-** state, quality

Root word: frequent

Niche

In ecology, a niche is a term describing the relational position of a species or population in an ecosystem.

Correlation

A relationship between two or more variables.

Prefix: **Co/Cor-** together, with

Suffix: **tion** – act, process or result

Root word: relate

Exothermic

Giving out heat, e.g. a reaction which produces heat during its process.

Prefix: **Ex-** out, outside

Suffix: **ic** – to do with, like

Kinetic

Energy created by movement.

Prefix: **Kine-** movement

Suffix: **ic** – to do with, like

Solution

A mixture formed by a substance dissolved in a liquid.

Suffix: **tion** – act, process or result

Root word: Solu/Solv-
dissolve, loosen

Catalyst

A substance that speeds up the rate of reaction without being used by itself.

Frequency

The rate per second of a wave of sound, radio, light etc.

Suffix: **ency-** state, quality