

## Delegate Exercise 7

Worksheet

Term
Accurate
Controlled Variable
Dependent Variable
Independent variable
Precision
Random error (AS and AL)
Systematic error (AS and AL)
Reliable (GCSE)
Valid
Uncertainty (AS and AL)
Reproducible (AS and AL)
Repeatable (AS and AL)
True value

Definition
A measure of the closeness of repeated measurements.
A measure of the range of values within which the true value lies.
A value that is close to the true value
An error that arises due to inconsistency in the experiment. Often causes anomalies.
An error that is repeated when each measurement is taken, for example if a balance always reads 0.1 g above the true value.
An investigation where all variables have been controlled and the results are reliable.
Factors that would affect the experiment and so need to be maintained constant
Results that have been repeated and show similar patterns
Similar results from different methods and / or equipment.
Similar results from the same method.
The value that would be obtained under ideal conditions.
The variable that is under investigation and is changed by the experimenter
Variable that is measured as a result of changing another