

# Spellings

Absorb/Absorption	Heart
Alkali/alkaline	Liquid
Anomalous	Method
Apparatus	Molecule
Camouflage	Neutron
Chemical	Neutralise
Circulate/circulation	Nucleus
Concentration	Nutrient
Combustion	Organism
Condensation	Oxygen
Conclusion	Parallel
Cycle	Particle
Digest/digestion	Phloem
Dissolve	Photosynthesis
Distillation	Predator
Electrolysis	Pressure
Element	Proportional
Environment	Reproduce
Evaporation	Respire/respiration
Exchange	Series
Freeze	Solution
Frequency	Temperature
Friction	Thermometer
Function	Vacuum
Growth	Xylem

# Exam technique

## How do I know what to write?

- Read the question carefully
- Underline the command words and the key words
- Look to see how many marks the question is worth
- Include scientific terms in your answer
- Read long answers to check that your answer makes sense
- Check that you have written something for each mark

## How do I calculate...?

- Read the question carefully
- Write down the values given
- Write down what you want to find out
- Look up an equation that includes all the quantities you have
- Rearrange it for the quantity you want
- Put the values into the equation
- Solve the equation
- Write in the units

# Science



## ISA Terminology

Range	Maximum and minimum values e.g. from 10 cm to 50 cm
Precise	Very little spread about the mean value
Accurate	Close to the true value
Reliable	Enough repeats have been done
Valid experiment	Suitable to answer the question being asked e.g. all the relevant variables have been controlled
Valid conclusion	Supported by valid data based on an appropriate experiment and sound reasoning

### Types of variable

Independent	The variable you change or select
Dependent	The variable you measure
Categoric	Values that are labels e.g. colour or type of material
Continuous	Values that can be counted or measured e.g. number of bubble or flow rate
Control	A variable that you keep the same or monitor because it may affect your results

## Command words

Analyse	Relate the data to scientific theory
Compare	State the similarities and differences between two or more things
Describe	Use words or diagrams to say how something looks or how something happens
Discuss	Write about a topic in detail, taking into account different ideas and opinions
Estimate	Roughly calculate or judge the value, number or quantity of...
Evaluate	Give the pros and cons of two things and then come to a conclusion
Explain	Give a reason why something has happened
State	This only needs a short answer without explanation
Suggest	Apply some scientific knowledge to an unfamiliar context
Use the information	Base your answer on information given in the question