Year 8 June Assessment

Revision List

Your June Science Assessment will test all of the ideas you have studied since the start of the year. Use this as a checklist to make sure you have covered all of the topics you need to revise.

**Topic 1: Ecology and Environment**

* Sampling techniques
* Interdependence
* Factors that affect organisms and their environment

**Topic 2: Atomic Structure**

* Elements and Compounds
* Atomic structure
* Representing chemical reactions

**Topic 3: Heat and Energy**

* Kinetic Theory
* Thermal, kinetic and internal energy
* Conduction, Convection and Radiation
* Forms of energy
* Efficiency
* Power (Power = Energy transferred/Time taken)

**Topic 4: The Human Body**

* Skeletal and Muscular system
* Nutrition and Digestion (including unbalanced diets)
* Gas exchange system
* Cellular respiration
* Effects of smoking and recreational drugs

**Topic 5: Periodicity and Chemical Reactions**

* Reactions of acids and metals
* Reactions of acids and carbonates
* Combustion
* Reactivity series
* Alkali metals

**Topic 6a: Electricity and Magnetism**

* Static Electricity
* Current
* Potential Difference
* Resistance (V=IR)
* Magnetism and Electromagnetism

**Topic 6b: Motion**

* Speed and velocity (Speed = Distance/Time)
* Interpret motion graphs
* Acceleration

**Topic 6c: Pressure and Moments**

* Gas pressure
* Liquid Pressure
* Pressure on Solids (Force = Pressure/Area)
* Moments (Moment = Force x Distance)

**Topic 6d: Light and Sound**

* Observing Waves
* Sound
* Reflection, Refraction and Dispersion

**Skills Sections A and B**

* Planning an investigation
* Identifying variables
* Interpreting data in a table and on a graph
* Drawing graphs