

Y9 Topic List

Interdependence of Organisms						
Food chains into food webs	What is an ecosystem?	What do animals and plants compete for?	Predator Prey Cycle	Pyramids of biomass	The carbon cycle	Sampling

Floating, sinking and density				
Density	Calculations involving density	Investigating the density of objects	Evaluating a method	Floating, sinking and pressure

Inheritance and the genome				
What is heredity?	What is DNA?	Extracting DNA from fruit	How was DNA discovered?	Why is the human genome important?

Periodic Table							
Structure of the atom	How do I calculate the number of subatomic particles in an atom?	Electron configuration	Group 1 metals	Group 7	Group 0	Ionic Bonding	How has the periodic table changed over time?

Parallel Circuits and Resistance						
Potential difference and resistance	Calculations using potential difference, current and resistance	Investigating resistance in a wire	Calculating mean	Current, potential difference + resistance in parallel circuits	Permanent + induced magnetism	Electromagnets

Energy Changes			
Endothermic and exothermic reactions	Collision theory and activation energy	Investigating temperature change	Bond energies

Energy of moving particles						
Internal energy	Specific heat capacity	Investigating SHC	Calculating SHC	Specific latent heat	Calculating specific latent heat	Power and work done

Cells					
Prokaryotic and Eukaryotic Cells	Standard Form	Calculating Magnification	Investigating Diffusion	Specialised Cells	Stem cells

Earth			
The rock cycle	Changing rocks	Formation of fossil fuels	Composition of the atmosphere (past and present)