



Year 8 – Overview

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Matter and Organisation Part 2	Forces Part 2	Reactions and Ecosystems Part 2	Electromagnets Part 2	Earth and Waves Part 2	Energy Part 2
→Elements →Atoms: Particle diagram →Compounds →Naming compounds →Boiling point: Predicting states →Gas pressure →Polymers →Group 1, 7 and 0. →The Periodic Table →Gas exchange: Lungs. →How we breathe. →Drugs, alcohol and smoking. →Nutrients →An unhealthy diet. →The digestive system. →The role of enzymes in the digestive system.	→Contact forces. →Compression: Deformation →Hooke's Law →Moments. →Friction. →Drag forces. →Pressure in liquids and gases. →Atmospheric pressure. →Weight →Stress on solids.	→Rearranging atoms. →Combustion. →Thermal decomposition. →Conservation of mass. →Calculating masses. →Exothermic and endothermic reactions. →Bond energies. →Energy level diagrams. →Aerobic respiration. →The journey of oxygen into our cells. →Explaining how carbon dioxide leaves the body- Links with gas exchange (organisation part 2). →Anaerobic respiration. →Biotechnology. →Photosynthesis. →How plants are adapted for photosynthesis. →Structure of a leaf. →Investigating photosynthesis. →Factors affecting the rate of photosynthesis. →Identifying the minerals plants require to be healthy.	→ Magnets. →Electromagnets. →Use of electromagnets. →Magnetic fields	→The Greenhouse Effect. →The carbon cycle →Climate change. →Global warming. →Sound waves. →Describing what sound waves travel through. →Speed of sound. →Features of a wave. →Loudness of a sound. →Pitch →Frequencies: Auditory range. →Using an oscilloscope. →Sound and hearing. →Light. →What light travel through. →Eclipses. →Law of Reflection →Refraction. →Lens: Concave and convex →The eye and photoreceptors. →Splitting white light. →Adding colour. →Subtracting colour →The colour of objects. →Electromagnetic spectrum.	→ Work done. → Radiation. → Convection. → Conduction. → Temperature.