

Long Term Plan: Year 8 Science



Term 1	W/B 10/09	W/B 17/09	W/B 24/09	W/B 01/10	W/B 08/10	W/B 15/10	W/B 29/10	W/B 05/11	W/B 12/11	W/B 19/11	W/B 26/11	W/B 03/12	W/B 10/12	W/B 17/12
		Cell Biology	Microscopes	Cell transport	Cell transport	Cell Division	Organisation	Organisation	Practical	Infection and response	Infection and response	Bioenergetics	Practical	Bioenergetics
		Cell Biology - Cells, Microscopes, specialised cells	Required Practical on the use of light Microscopes	Transport- Diffusion, Osmosis and active transport	Required practical - The effect of a range of salt concentration on mass of plant tissue	DCP1 Cell Division - Mitosis	Test 1 Biology Cell Biology or Cell Transport	Biology - Organisation - Digestions, Enzymes, Blood and Heart, Photosynthesis	Required practical - Investigate the effect of pH on the rate of reaction and Test for a range of carbohydrates, lipids and proteins	Biology - Infection and response- Health, Pathogens,	Infection and response - Diseases and Defence systems	Biology - Bioenergetics photosynthesis and respiration	Required practical - Investigate the effect of light intensity on the rate of photosynthesis	Biology - Bioenergetics DCP2
Term 2	W/B 02/01	W/B 07/01	W/B 14/01	W/B 21/01	W/B 28/01	W/B 04/02	W/B 11/02	W/B 25/02	W/B 04/03	W/B 11/03	W/B 18/03	W/B 25/03	W/B 01/04	W/B 08/04
	Start Chemistry	Chemistry - Atomic Structure	Bonding	Bonding structure and	Quantitative Chemistry	Practical	Separation techniques	Separation techniques	Electrolysis	Energy Changes	Energy Changes	Practical	Chemical changes	Energy Changes
	Biology Test Organisation or Infection and Response	Chemistry - Atomic Structure and the periodic table	Chemistry - Bonding structure and properties of matter	Bonding structure and properties of matter - Covalent and Ionic Bonding	Quantitative chemistry - Electrons, Mass and Isotopes	Chemical Changes- Required practical on preparation of a pure and dry sample of salt from insoluble carbonate	Continued also DCP3 Separating techniques- Filtration, Distillation and Crystallisation	Chemistry tests - Atomic Structure and the periodic table and Bonding	Required practical Investigate what happens when aqueous solutions are electrolysed using inert electrodes	Chemistry - Energy changes - Different types of energies, endothermic and exothermic	Energy Changes, Exothermic and endothermic calculations for energy changes	Required practical - Investigate the variables that affect temperature changes in reacting solutions	DCP4 Acids and Bases, Reactions of acids	Energy Changes- Measuring energy change, Reaction profile
	W/B 29/04	W/B 06/05	W/B 13/05	W/B 20/05	W/B 03/06	W/B 10/06	W/B 17/06	W/B 24/06	W/B 01/07	W/B 08/07	W/B 15/07			
	Start Physics	Physics Energy	Energy	Practical	Electricity	Practical	Practical	Particle Model	Particle Model	Practical	Atomic Structure			

Term 3	Chemistry Test Energy Changes or Chemical Changes	Physics Energy - Energy stores , Conservation of energies.	Energy - Kinetic ,potential energy stores, Energy transfers by heating	Required practical- investigation to determine specific heat capacity of one or more materials	Electricity - Current and series circuits, Resistance and Parallel Circuits	Required practical - Use circuit diagrams to check appropriate circuits to investigate factors affecting resistance	DCP6 - Required practical Investigate resistance in circuits using filament bulbs, diode and resistor at constant temperature Physics tests - Energy or Electricity	Physics - particle model of matter , Density of materials	particle model of matter, Internal energy and changes of state	Required practical - make and record the measurement s needed to determine densities of regular and irregular solid objects and liquids.	Atomic Structure - Current model of the atom, Isotopes and Nuclear Radiation	

 For information on assessments see additional assessment guidance