Topic Themes for Y10 Assessments - Combined Science

Biology

Foundation	Higher
Photosynthesis	Enzymes, examples & how the function
Diffusion, Osmosis, Active Transport	Transpiration
Microscopy & Magnification	Pathogens, examples & reducing transmission
Transpiration	Structure of the Heart
Pathogens	Magnification & Using a microscope
Structure of the heart	Diffusion & Active Transport
Enzymes, examples & how they function	

Chemistry

Foundation	Higher
Bonding – Types/Structure & properties	Electrolysis
Electrolysis	Calculations – Concentrations of solution, RAM, volumes of gases
Periodic Table inc. halogens	Periodic table inc. halogens
Chemical Reactions	Bonding – Types/Structure & properties
Acids & Bases	Reaction Profiles
Making a Salt	Making a Salt
Mixtures	pH Scale & reactions of acids
	Reduction & Oxidation

Physics

Foundation	Higher
Circuitry	Circuitry
Resistance	Latent heat & states of matter changes
Efficiency of energy resources	Energy resources
History/Development of the Atom	Component characteristics (circuits)
Half life	Specific Heat Capacity
Mains Electricity & Wiring a plug	Radioactivity
Energy Stores	
Latent heat & states of matter changes	

Topic Themes for Y10 Assessments - Triple Science

Biology

Foundation	Higher
Cell Transport	Adaptations for efficient diffusion
Structure of blood & heart	Magnification & types of microscope
Structure of Leaves & Transpiration	Cell Transport
Respiration	Structure of the Heart & value replacements
Pathogens & Antibiotics	Monoclonal antibodies
Cell Structure	Transpiration
Magnification & types of microscope	Photosynthesis
Human Defence mechanisms inc Immune system	Structure & Role of Enzymes
Photosynthesis	Structure of Cells
	Types of Pathogen & Human defence mechanisms

Chemistry

Foundation	Higher
Mixtures	Making a salt
Periodic Table inc. Halogens, Group 1 & 7	Metal & metal compounds – bonding & structure
Electrolysis	Development of structure of atom
Making a salt	Isotopes
Metals & their reactions	Displacement reactions
Acids, bases & salts	Extracting metals
Calculations - % yield, RAM, isotopes, size of atom, atom economy	Calculations – limiting reactants, % yield, pH strong & weak acids, titration calculations, mole calcs.
Bonding	Halogens
	Bonding – types/structure & properties
	Group 1

Physics

Foundation	Higher
Density	Power
Radioactivity & Radioactive decay	Investigating insulating materials
Properties of radiation	Energy & power
Gravitational Potential Energy	Density
Development of structure of atom	Energy resources
Energy resources	Half life & decay equations
Power	Mains electricity & circuitry
Circuitry	Thermal conductivity
Specific Heat Capacity	Static electricity
Investigating insulating materials	Internal energy