

Topic Themes for Y11 Assessments - Triple Science

Biology

Foundation

Adaptations for Gas Exchanges Systems
Cell Transport
Changes during exercise/respiration
Drug Testing
Human Defence Mechanisms/Vaccines
Microscopy/Magnification
Pathogens
Photosynthesis & test for glucose
Plant Defence Mechanisms
Structure of Blood and Blood Vessels
Structure of Cells

Higher

Adaptations for Gas Exchange System
Cell Division
Cell Transport
Drug Testing
Function of the liver/Liver failure
Monoclonal antibodies
Non Communicable disease – effects on health
Photosynthesis
Structure & Role of Enzymes
Structure of Cells

Chemistry

Foundation

Calculate RAM, % Atom Economy
Chemical Reactions & Energy

Conservation of Mass
Electrolysis
Metals & Reactivity Series
Properties of Metals/Alloys
Reactions & Properties of Group 7
Structure & Models of an Atom
Structure and Bonding

Higher

Bond Energy/Reaction profiles/Hydrogen Fuel Cells
Calculate RAM, limiting reactants, Masses to balanced equations
Development of atom model & Periodic Table
Displacement Reactions
Electrolysis
Metals & the Reactivity Series
Properties of the Halogens
Structure & Bonding
Titration Method & Calculation

Physics

Foundation

Circuits – Power & Energy Transferred calculations, diagrams
Forces – GPE & KE
Methods of Electricity Generation/National Grid
Nuclear Fission & radioactive decay
Pressure
Resistance
Specific Heat Capacity

Higher

Circuits – diagram, calculations, mains circuits

Electricity generation
Nuclear Fission & fusion
Pressure
Resistance in circuits
Specific Heat Capacity