

Topic Themes for Y11 Assessments - Combined Science

Biology

Foundation

Adaptations for Exchange Surfaces
Aerobic & Anaerobic Respiration
Cell Transport
Changes during exercise
Drug Testing
Microscopy & Magnification
Pathogens – examples of disease
Risks/Benefits to Health
Role of the Immune system
Transpiration & structure of a leaf

Higher

Adaptations for Exchange Surfaces
Aerobic & Anaerobic Respiration
Cell structure & Types of Cell
Cell Transport
Changes during exercise
Drug Testing
Microscopy & Magnification
Pathogens – examples of disease
Photosynthesis
Risks/Benefits to Health

Chemistry

Foundation

Acids, Bases & Alkalis
Be able to write method to get valid results
Electrolysis
Energy Changes
Periodic Table - patterns & development
Reactivity of Metals
Structure & Bonding & Properties
Structure of the Atom & discovery of the atom

Higher

Acids, alkalis and bases
Be able to write method to get valid results
Electrolysis
Energy Changes
Group 1 elements & Periodic Table
Structure of the atom & discovery of atom
Structure, Bonding & Properties

Physics

Foundation

Radiation – types/differences
Radioactive decay
Renewable Energy Resources
Resistance
Specific Heat Capacity
Wiring a Plug

Higher

Energy – GPE/Spring Constant
Radiation – types/differences
Radioactive decay
Resistance
Specific Heat Capacity
Wiring a plug