KS4 Science
Trilogy and separate

Farlingaye High School
Opportunity Everywhere

AQA Realising potential

Biology, Chemistry and Physics
(See Sixth form prospectus for entry requirements)

Applied science Level 3

Other post 16 options – Apprenticeships, other A level subjects, other BTEC subjects, other training, College?

GCSE exams!!

YEAR 11

- **Chemistry of the atmosphere**
  - 1 Mole
  - 6.02×10^{23} Moles
  - Greenhouse gases
  - Evolution of the Earth's atmosphere
  - Atmospheric pollutants
- **Using resources**
  - Potable water
  - Life cycle assessments and recycling
- **Forces**
  - Interactions of forces
  - Work done and energy transfer
  - Scalars and vectors
  - Forces and motion
  - Momentum
- **Magnetism and electromagnetism**
  - The motor effect
  - Permanent and induced magnets
- **Quantitative Chemistry**
  - Purity and formulations
  - Fractional distillation
  - Relative formula mass
- **Organic Chemistry**
  - Carbon compounds
  - Rate of reaction
- **The Rate and Extent of Chemical Change**
  - Reversible reactions and dynamic equilibrium
- **Homeostasis and response**
  - Hormonal control in humans
  - Homeostasis
  - The nervous system
- **Inheritance, variation and evolution**
  - Understanding genetics and evolution
  - Reproduction
  - Variation and evolution
- **Atomic Structure**
  - Internal energy and energy transfers
  - Changes of state
  - Atoms and isotopes
- ***Space – Separate only***
  - Adaptations
  - Biodiversity and human interaction
  - Classification
- **Particle model of matter**
  - pressure
  - Energy transfers
- **Ecology**
  - Atoms and nuclear radiation
  - Organisation of an ecosystem
- **Energy Changes**
  - Conservation of mass
  - Series and parallel circuits
  - National and global energy resources
  - Specific heat capacity
- **Bioenergetics**
  - Exothermic and endothermic reactions
- **Chemical Changes**
  - Domestic uses and safety
  - Current, potential difference and resistance
- **Electricity**
- **Energy**
  - Reaction profiles and bond energies
  - Electrolysis
  - Reactions of acids
  - Reactivity of metals
- **Chemical Analysis**
  - Chromatography

YEAR 10

- **Atomic Structure and the Periodic Table**
  - Periodic table
  - Relative atomic mass
  - Conservation and dissipation of energy
  - Energy changes in a system and stores
- **Energy intro.**
  - Model of the atom
- **Waves**
  - Transverse and longitudinal waves
  - Electromagnetic waves
- **Bioenergetics**
  - Respiration
- **Exchange**
  - Transport in cells Diffusion, osmosis and active transport
  - Health and disease
- **Bonding, Structure and the properties of matter**
  - Chemical bonds, ionic, covalent and metallic
- **Infection and response**
  - Communicable diseases
  - How bonding and structure are related to properties
- **Homeostasis and response**
  - Photosynthesis
  - Cell division and stem cells
  - Discovery and development of drugs
  - Human defence systems and vaccination
- **Cell biology**
  - Digestive system, enzymes and food tests
  - Principles of organisation
  - Exchange surfaces and SA:V
  - Organisation in plants and plant diseases
- **Organisation**
  - The circulatory system
- **Colour Chemistry**
  - Cell structure, specialisation and microscopy

YEAR 9

I'm a Scientist Get me out of here

Welcome