



SCIENCE LEARNING JOURNEY

YEAR 13

EXAM

T6 **Chemistry:** Inorganic – Period 3.

T5 **Biology:** Organisms Respond to Changes in their Environment. Homeostasis
Chemistry: Inorganic – Reactions of Aqueous Ions.
Required Practical 11
Physics: Cosmology. Estimation of Physical Quantities.

T4 **Biology:** Control of Gene Expression. Recombinant DNA Technology
Chemistry: Inorganic – Transition Metals.
Physics: Astrophysics. Electric Fields. Telescopes. Stars and Spectre

T3 **Biology:** Control of Gene Expression. Gene Expression
Chemistry: Physical – Kinetics.
Required Practical 7
Physics: The Changes of State. Gravitational Fields
Radioactivity. Nuclear Physics

T2 **Biology:** Genetics, Populations, Evolution and Ecosystems. Populations & Evolution. Synoptic Essays, Maths Skills
Chemistry: Physical – Acids and Bases. **Required Practical 9**
Physics: Oscillations and Simple Harmonic Motion. The Gas Laws

T1

REVISION

YEAR 12

T1 **Biology:** Biological Molecules. Biological molecules.
Required practical 1
Chemistry: Physical – Amount of substance.
Required practical 1
Physics: Particles and Radiation. Waves. Matter and Radiation. Particle sorting

T2 **Biology:** Biological Molecules. Nucleic Acids
Chemistry: Bonding. Equilibria
Physics: Quantum Mechanics. Refraction. Properties of materials.

T3 **Biology:** Genetic information, variation and relationships between organisms. DNA, genes & protein synthesis. Genetic diversity.
Required practical 6
Chemistry: Physical – kinetics. Inorganic – Group 7.
Required Practical 4
Physics: Mechanics. Scalars and Vectors. Forces in Equilibrium. Newton's Laws of Motion.

T4 **Biology:** Genetic information, variation and relationships between organisms. Biodiversity. Revision
Chemistry: Organic – halogenoalkanes. Alcohols.
Required Practical 5
Physics: Momentum. Circuits. Work Energy and Power

T5 **Biology:** Revision and Mocks, Genetics, Populations, Evolution and Ecosystems. Inherited Change
Chemistry: Physical – Kinetics.
Required Practical 3
Physics: Conservation of Energy

T1 **Biology:** Genetics, Populations, Evolution and Ecosystems, Inherited Change
Chemistry: Thermodynamics
Physics: Circular Motion

EXAM

YEAR 11

T6 **B17:** Biodiversity and Ecosystems.

T5 **P15:** Electromagnetism
P16: Space
B15: Adaptations, Interdependence and Competition.
B16: Organisation and Cycles in Ecosystems.
C12: Earth's Resources.
Revision of C1 – C8

T4 **P12:** Wave Properties
P13: Electromagnetic Waves
P14: Light
B14: Genetics and evolution
C11: Earth's atmosphere

T3 **P8:** Forces in Balance. **P9:** Motion.
P10: Force and Motion. **P11:** Force and Pressure.
B10: Nervous System **B11:** Hormonal Coordination.
B12: Reproduction.
B13: Variation and Evolution.
C8: Rates and Equilibrium.
C9: Crude Oil and Fuels. **C10:** Analysis.

T2

T1

REVISION

YEAR 10

T1 **P1:** Conservation and Dissipation of Energy
P4: Electric Circuits.
B3: Organisation and the Digestive System.
B4: Organ Systems in Animals and Plants.
B5: Communicable Diseases.
C3: Structure and Bonding. **C4:** Calculations.
C5: Chemical Reactions.

T2

T3 **P5:** Electricity in the Home.
P6: Molecules and Matter
B6: Preventing and Treating Disease.
B7: Non-Communicable Diseases.
B8: Photosynthesis **B9:** Respiration.
C5: Chemical Reactions. **C6:** Electrolysis.
C7: Energy changes.

T4

T5 **P7:** Radioactivity
B8: Photosynthesis
B9: Respiration.
C8: Rates and Equilibrium.

T6

EXAM

YEAR 9

T6 **B15** Adaptation, Interdependence Competition

T5 **C1** Atomic Structure
P3 Energy Resources

T4 Investigation / Working scientifically
B1 Cells and cell transport

T3 **Fundamentals of Physics:** Electromagnetism, Electrostatic forces

T2 **Fundamentals of Chemistry:** Atoms, Periodic table, Chemical symbols

T1 **Fundamentals of Biology:** Plants, animal cells and DNA

P3: Energy Resources **B2:** Cell Division **B15:** Adaptations, Interdependence and Competition **C2:** Periodic Table.

P2: Energy transfer by heating. **B1:** Cells and Organisation **C1:** Atomic structure

GCSE Intro to Physics. GCSE Intro to Biology GCSE Intro to Chemistry. Investigation Skills.

EXAM

YEAR 8

T1 **B3** Health and lifestyle

T2 **C3** Periodic Table and separation techniques

T3 **P3** Electricity and magnetism

T4 **B4** Ecosystem processes
C4 Metals and acids

T5 **P4** Energy

T6 Science Fair Investigation

EXAM

YEAR 7

T6 **P2:** Sound and Light

T5 **B2:** Structure and Function of Body Systems
C2: Chemical Reactions

T4 **P1:** Forces and Space

T3 **C1:** Particles, Atoms, Elements and Compounds

T2 **B1:** Cells and Reproduction

T1 **Transition Unit:** Identifying Variables. Hypotheses and Predictions.

