KS3 Curriculum map

Year 7-8

AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
General Science/Chemistry <u>Topics Covered: Introduction to science and particles</u> • Introduction to science • Lab safety and measurement • Bunsen License **Skills in Science** • Equipment • Hypothesis and variables • Methods • Graph Drawing • Means , trends, conclusions • Data handling **Practicals** **Lab safety** Bunsen Burners	**Chemistry/ Biology** <u>Topics Covered: Particles/Cells</u> **Particles** • Periodic table • Subatomic particles • Chemical formulae • Indicator • Making indicator • Antacids **Cells** • Microscopes • Animal Cells • Plant Cells • Specialised cells • Hierarchy of organisation • Organisms • Diffusion • Smoking **Practicals** Making Indicator Using indicator	**Physics** <u>Topics Covered: Electricity/Magnetism/Forces</u> • Conductors and Insulators • Static Electricity • Current • Bar magnets **Practicals** Magnetic fields Van Der Graaf Conductors and insulators circuits	**Physics/Biology** <u>Topics Covered: Energy/Reproduction</u> **Energy** • Energy transfers • Food and fuels • Energy resources • Heat transfer • Efficiency **Reproduction** • Adolescence • Reproductive organs • Menstrual cycle • Gametes • STIs • Pregnancy • IVF **Practicals** Energy transfer demonstrations	**Biology** <u>Topics Covered: Interdependence/photosynthesis/human body</u> **Interdependence** • Classification • Food chains • Pyramids of biomass • Sampling • Adaptations • Natural Selection **Photosynthesis** • Photosynthesis • Leaves • Limiting factors of photosynthesis • Light intensity **The Human Body** • Skeleton • Muscles • Flower anatomy • Fertilisation **Practicals** Sampling Light intensity photosynthesis Flower disection	**Biology/Physics** <u>Topics Covered: Human Body/What's in the sky?</u> • The universe formation • The Solar system • Stars • Seasons • The moon • Satellites • Space • Fun practical (solar system in the playground/ bottle rockets **Practicals** Bottle rockets Making the solar system

KS3 Curriculum map

Year 9

Biology Topics Covered: The human body • What is the body made of? • How the body works • How the body fights disease • How the body is coordinated	**Chemistry** Topics Covered: Elements, mixtures and compounds • Atoms, elements, compounds • Structures and properties • Separating mixtures • Metals and alloys • Polymers	**Physics** Topics Covered: Energy, forces and structures of matter • Energy transfers and resources • Forces and work • Speed and stopping distance • Atoms and nuclear radiation	**Biology** Topics Covered: Environment, evolution and inheritance • Organism feeding relationships • Habitats and environments • Life development on Earth	**Chemistry** Topics Covered: Chemistry in our world **Reactions of acids** • Energy and rates of reaction • Earth's atmosphere • Fuels and human impact on the atmosphere • Water for drinking	**Physics** Topics Covered: Electricity, magnetism and waves • Current • Domestic electricity • Magnetism and electromagnetism • Types of waves • Electromagnetic waves