

Unit One	Unit Two	Unit Three
Topic: Working Scientifically and Cell Biology Key Learning: • Variables in Investigations • Data and Graph Skills • Scientific Conclusions • Plant and Animal Cells • Specialised Cells • Microscopy • Transport in cells Assessment: Half- term assessment of unit 1	Topic: Particle Models, Atoms, Elements and compounds, Forces Key Learning: States of Matter Density Elements and the Periodic Table Atomic Structure Compounds and Mixtures Balanced and Unbalanced Forces Mass and Weight Assessment: End of term exam of unit 2	Topic: Human Body- organ systems and Reproduction Key Learning: Life Processes Organisation Circulatory, respiratory and Skeletal Systems Adolescence and Puberty Menstrual Cycle Reproduction in Humans Development of the Foetus Reproduction in Plants Assessment: Formative assessment of Human Biology
Unit Four	Unit Five	Unit Six
Topic: Chemical Reactions and Acids and Alkalis	Topic: Energy and Motion	



Unit One	Unit Two	Unit Three
Topic: Ecosystems and the Periodic Table Key Learning: • Food chains and Food Webs • Disruptions to Food chains • Extinction • The Periodic Table • Group 1- Alkali Metals • The Halogens • The Noble Gases	Topic: The Earth, Adaptation, and Inheritance Key Learning: Earth and its Atmosphere Rock Cycle Carbon Cycle Climate change Competition and Adaptation Variation and inheritance Natural Selection	Topic: Body Systems, Drugs and Alcohol Key Learning:
Assessment: Half- term assessment of unit 1	Assessment: Formative assessment of unit 2	Assessment: Biology assessment
Unit Four	Unit Five	Unit Six
Topic: Separation Techniques, Metals and Acids Key Learning: Solubility Filtration and Evaporation Distillation Chromatography Metals in acids, oxygen and water reactions Displacement Reactions Extraction of metals Assessment: Chemistry assessment	Topic: Electricity and Magnetism Key Learning: Circuit Diagrams Series and Parallel circuits Resistance Static Electricity Magnets Electromagnets Uses of Electromagnets Assessment: Physics assessment	Topic: Diseases Key Learning: Pathogens Body Defence Systems Vaccinations Antibiotics and Resistance Assessment: End of year examination

Science Year 9 Curriculum Map



Unit One	Unit Two	Unit Three
Topic: Cell Biology and Energy Key Learning:	Topic: Atomic Structure and Particle Physics Key Learning: Atoms, compounds and Isotopes Electronic Structure Developing the Atomic Model Periodic Table Groups 1, 7 & 8/0 Density of Materials Kinetic Theory and Changes of State Specific Heat Capacity Internal Energy and Specific Latent Heat Assessment: End of term assessment of unit 2	Topic: Bioenergetics and Energy Changes Key Learning: Photosynthetic Reaction Uses of glucose Aerobic and Anaerobic Respiration Metabolism and response to exercise Exothermic and Endothermic Reactions Measuring Energy Changes Energy Level Diagrams Bond enthalpy Assessment: End of term assessment of unit 3
Unit Four	Unit Five	Unit Six
Topic: Infection and Response Key Learning: Communicable Diseases Viral and Bacterial Diseases Human Defence Systems Vaccination Antibiotics and painkillers Discovery and Development of Drugs Assessment: Biology assessment	Topic: Structure and Bonding Key Learning: Ionic Bonding Ionic Compounds Covalent Bonding Covalent Structures Polymers Metallic Bonding States of Matter Assessment: Chemistry assessment	Topic: Nuclear Physics and Space Physics Key Learning: Atomic Structure Development of the Atomic Model Radioactive Decay Activity and Half Life Assessment: Physics assessment