

SCIENCE Programme of Study (Year 10 2025-26)

Autumn														
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn 1 – ‘Equality & Diversity’								Autumn 2 – ‘Living in the Wider World’						
Subject Area Topic: Cells & Structures								Subject Area Topic: Atoms, electrons and the periodic table.						
1. Scientific method Microscopes	2. Animal cells Plant cells	3. - Specialised cells -DNA - Chromosomes	4. -Mitosis -Stem cells	5. -Diffusion -Osmosis Osmosis req. prac.	6. -States of matter -Atoms	7. Revision of Biology topic Assessment	8. Therapy Week	1. -Atomic data Compounds -Atomic mass	2. -Atomic structure - electronic structure of atoms	3. -Conservation of mass -Balanced chem equations	4. -Properties of elements, metal, non-metals	5. -Group 1 Metals -group 7 elements -group 0	6. Revision of Chemistry topic Assessment	7. Therapy Week Catch up on missed opportunities/ topic details.
Notes/Links/Interleaving			Additional Higher Content					Notes/Links/Interleaving		Additional Higher Content -Balanced Symbol equations ext. -Writing chemical formula for common compounds				
Spring 1 – ‘The Circle of Life’							Spring 2 – ‘Conflict’							
Subject Area Topic: The Human Body & Genetics							Subject Area Topic: Reactions - Acids, Disease & Medicine							
1. -Electrical components -Electrical charge -Measuring voltage	2. Resistance - Component characteristics	3. -Reproduction -Sexual / asexual -Meiosis -menstrual cycle	4. -Controlling fertility -Abiotic and biotic factors	5. -Carbon cycle -Water cycle -Global warming -Deforestation	6. -Maintaining ecosystems biodiversity Assessment	7. -Finite and renewable resources -Recycling -Life cycle assessments.	1. -Acids bases -Reactions of acids -Reactivity series	2. -Reactions of metals -Electrolysis	3. Communicable diseases -Bacterial diseases -Viral diseases	4. -Fungal and protist diseases -Fighting diseases	5. Assessment - Vaccinations	6. Therapy Week + catch up		
Notes/Links/Interleaving -Genetic diagrams -Family Tree and genetic screening			Additional Higher Content -Embryo screening -Classification changes				Notes/Links/Interleaving			Interaction of different diseases Artificial hearts + valves				
Summer 1 – ‘Health & Leisure’							Summer 2 – ‘Crime & Punishment’ (CSI Themed curriculum)							

Subject Area Topic: Digestion, Circulation, Nervous System, Exercise						Subject Area Topic: Physics - Separation, Light, Laws, Forces						
1. -Enzymes - digestion Organs involved in digestion.	2. -Homeostasis -Endocrine system	3. -Health and diseases -Cancer -Risks in non-communicable diseases	4. -Antibiotic Resistant bacteria. -Developing drugs	5. 4 WEEK HALF TERM	6. 4 WEEK HALF TERM	1. -Pure and impure -Formulations -Chromatography -	2. -Tests for gases -Food tests	3. - Electromagnetic waves. -Refraction and reflection of light	4. -Stopping and thinking distance -Braking distance -Reaction times	5. -Newtons 1 st law -Newtons 2 nd law	6. Assessment -Newtons 3 rd law - Acceleration	7. Therapy week- catch up Elasticity and investigating springs
Notes/Links/Interleaving		Additional Higher Content -Antibiotic resistant bacteria				Notes/Links/Interleaving			Additional Higher Content Uniform acceleration Reaction time equation calculation			