



Sequence	
TOPIC (S) Nervous and Endocrine System	<ol style="list-style-type: none"> 1. The Nervous System 2. Conduction of Nerve Impulses 3. Factors Affecting Impulse Speed 4. The Synapse 5. Disorders of the Nervous System: 6. The Hypothalamus 7. The Endocrine System 8. Disorders of the Endocrine System 9. Diabetes and its Control 10. Homeostasis 11. Osmoregulation 12. Control of Blood Pressure
Knowledge & Skills development	<ul style="list-style-type: none"> • Identify the structure of myelinated motor neuron and how an action potential is generated and conducted • Describe the factors affecting the speed of conductance: myelination, salutatory conduction, axon, diameter, temperature • use information provided to predict and explain the effects of specific drugs on a synapse. • Label the detailed structure of a synapse and neuromuscular junction • Describe the symptoms and treatment of a variety of disorders affecting the nervous system-Parkinson's Disease, Multiple Sclerosis and Amyotrophic Lateral Sclerosis (Lou Gehrig's Disease) • The role of the Hypothalamus • Organs comprising the Endocrine System • Describe the functions of a variety of hormones • Be able to describe disorders of the Endocrine System to include Hypothyroidism and Type 1 and Type 2 Diabetes
Assessment / Feedback Opportunities	<p>Formative Assessment Teacher questioning Quizzes Exam style questions</p> <p>Summative assessment Half Termly Assessments Mock Exams</p>
Personal Development (Including British Values, RSE, Citizenship)	<ul style="list-style-type: none"> • Personal Development: Collaborative problem solving • Respect and Tolerance: conflict of interest and other concepts with regards to ethical issues in Biology • Healthy Lifestyles: Having an understanding of the effects of drugs
Reading opportunities	<p>Subject specific vocabulary introduced before reading of related texts Word etymology from Latin and Greek roots Reading of simple and complex sentences, paragraphs, articles Scientific writing</p>
Key Vocabulary	<p>Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly, Describe, Explain, Compare, Analyse, Calculate, Suggest, Absolute, Uncertainty, Error, Covalent, Ionic, Hydrogen, Monomer, Polymer, Polymerisation, Condensation, Hydrolysis, Monosaccharide, Disaccharide, Triglyceride, Phospholipid, Hydrophilic, Hydrophobic, Double helix, salutatory conduction, synapse, salutatory conduction, myelination, Action potential, polarity.</p>

Cross-Curricular Links	Sport – Understanding processes within the human body Health and Social Care – Understanding how disorders impact everyday life,
Career Opportunities	Forensics, , Archaeology, Biological Scientists, Microbiology, Biochemistry, Medicine, Pathology, Nursing, Health Visitor, Health Care Assistant, Paramedic, Radiologist