



Year 10 Curriculum Grid

Separate Biology

Year/Term	Unit	Intent
Curriculum purpose		<ul style="list-style-type: none"> • Ensure students have a secure understanding of the key concepts of Biology, building on knowledge from KS3. • Encourage students to carry out practical work safely with increasing independent skills. • Enthuse students with a love of Biology by incorporating a holistic approach and relating concepts to actions and behaviours.
Autumn	SB5 - Health, Disease and the Development of Medicines	<ul style="list-style-type: none"> • Describe the difference between communicable and non-communicable diseases • Evaluate some different treatments for cardiovascular disease • Describe a pathogen as a disease-causing organism • Explain how pathogens are spread and how this spread can be reduced or prevented • Explain the role of the specific immune system of the human body in defence against disease • Discuss the advantages and disadvantages of immunisation, including the concept of herd immunity • Describe that the process of developing new medicines including the use of monoclonal antibodies
Spring	SB6 - Plant Structures and their Functions SB7 - Animal Coordination, Control and Homeostasis (start)	<ul style="list-style-type: none"> • Explain how a plant is adapted for photosynthesis and gas exchange • Explain the effect of temperature, light intensity and carbon dioxide concentration on the rate of photosynthesis • Explain how substances are transported into and out of cells, including by diffusion, osmosis and active transport • Describe the commercial uses of plant hormones • Describe where hormones are produced and how they are transported from endocrine glands to their target organs
Summer	SB7 - Animal Coordination, Control and Homeostasis (continued) SB1-SB7 revision	<ul style="list-style-type: none"> • Describe the stages of the menstrual cycle including the roles of the hormones involved • Evaluate hormonal and barrier methods of contraception • Explain the use of hormones in fertility treatment • Explain how the hormones control blood glucose concentration • Explain the cause and control of type 1 and type 2 diabetes • Explain the importance of homeostasis, including thermoregulation and osmoregulation