GCSE Biology Triple Science **Year 10**	**Autumn HT1** **Chapter 1 & 2**	**Autumn HT2** **Chapter 2 & 3**	**Spring HT1** **Chapter 4 & 5**	**Spring HT2** **Chapter 5**	**Summer HT1** **Chapter 6**	**Summer HT2** **Chapter 6**
	• Looking at cells • Looking at cells • Size and scale • Microscopes • Required practical microscopy • Microscope development • Growing microorganisms • Cell differentiation and specialisation • Cell division • Stem cells and therapeutic cloning • Transport in cells • S:A ratio • Osmosis • Active transport • The digestive system • Enzymes	• The heart • Blood vessels • Blood composition • Gas exchange • Coronary heart disease • Cancer • Plant tissues • Moving water • Moving sugar • Investigation transpiration • Pathogens • Causes of disease • Human defence system • Immunity • Antibiotics and painkillers • Drug trials • Monoclonal antibodies • Plant diseases	• Explaining photosynthesis • Looking at photosynthesis • Required practical photosynthesis • Increasing photosynthesis • Increasing food production • Plant minerals and fertiliser • Cells at work • Living without oxygen • Homeostasis • Nervous System • Reflex actions • The brain • Required practical reaction time • The eye • Seeing in focus • Eye defects	• Endocrine system • Controlling blood glucose • Diabetes • Diabetes • The kidneys • Negative feedback • Kidney failure • Kidney failure • Human reproduction • IVF • IVF • Contraception • Auxins • Required practical phototropism • Plant hormones • Sexual and asexual reproduction • Meiosis • DNA and Genes	• Structure of DNA • The Human genome • Tracing human migration • Proteins • Mutations • Genetics • Genetic crosses • Tracking gene disorders • Gregor Mendel • Variation Year 10 miss some lessons due to mock exams	• Theory of Evolution • Natural selection • Selective breeding • Genetic engineering • GM crops • • Cloning • Darwin • Wallace • Fossil evidence • Extinction or survival • Antimicrobial resistance • Antimicrobial resistance Year 10 spend two weeks off timetable doing WEX and WRL

	• Food tests required practical • Enzymes required practical		• Controlling body temperature			