Subject - KS5 MEDICAL SCIENCE

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	**Unit 1 – Human Health and Disease:** - Biological principles - Function of main classes of biological molecules in humans - Structure of human cells **Unit 2 – Physiological Measurement techniques:** - Function of physiological measurement tests - Significance of data obtained from physiological measurements - Limitations of	**Unit 1 – Human Health and Disease:** - Transport systems in cells - How cells process information - Structure of human physiological systems - Function of human physiological systems **Unit 2 – Physiological Measurement techniques:** - Patient confidentiality - Conduct towards patients - Plan and perform physiological	**Unit 1 – Human Health and Disease:** - External factors impact on the - How lifestyle may affect major body systems - How lifestyle may impact health **Unit 3 – Medical Science Research Methods:** - Research methods - Research hypothesis - Sampling methods - Variables - Ethical issues	**Unit 1 – Human Health and Disease:** - How pathogens can affect body systems - How non-infectious diseases affect body systems **Unit 3 – Medical Science Research Methods:** - Plan, collect and document data - Analyse data using statistical methods, - Significance of errors, demand characteristics, reliability, validity, bias, confidence levels, correlation	**Unit 1 exam:** - Unit 1 Revision - Study of unit 1 pre-release	**Unit 4 – Medicines and treatment of disease:** - Factors to be considering when prescribing medicines - Strategies to improve adherence of patients taking prescriptions - Rotes for administering medicines **Unit 5 – Clinical Laboratory Techniques:** - Principles of clinical tests

	physiological measurement testing	measurement tests - Evaluate information from physiological measurement tests		and dispersion.		
Year 13	**<u>Unit 4 – Medicines and treatment of disease:</u>** - Molecular basis of the action of medicines - Factors that affect the distribution of medicines in the body - Fate of medicines in the body **<u>Unit 5 – Clinical Laboratory Techniques:</u>** - Principles of clinical tests; - Biochemical tests - Enzyme assays - Chromatography	**<u>Unit 4 – Medicines and treatment of disease:</u>** - How medicines affect body systems - How medicines affect causative agents of infectious disease - Adverse reactions to medicines **<u>Unit 5 – Clinical Laboratory Techniques:</u>** - Principles of clinical tests; - Nephelometry - Turbidimetry - Haematology	**<u>Unit 4 – Medicines and treatment of disease:</u>** - Principles of treatment of cancer - Genetic basis of cancer - Impact of new treatments for cancer **<u>Unit 5 – Clinical Laboratory Techniques:</u>** - Factors that affect clinical test results - Carry out clinical laboratory techniques	**<u>Unit 5 – Clinical Laboratory Techniques:</u>** - Assess biological samples using clinical tests - Record and process data from clinical tests **<u>Unit 6 – Medical Case Study:</u>** - How physiological information is presented within case studies - How physiological measurement techniques can be used to support diagnosis and treatment	**<u>Unit 1 resit exam</u>** **<u>Unit 6 exam</u>** - Unit 6 Revision - Study of unit 6 pre-release	**<u>Course end</u>**

	- Radioactive - immunoassays - ELISA, - Spectrophotometry,	- Histopathology - Microbiological - Genetic				