Science Stage Four Curriculum – Carre's Grammar School

Subject						
•	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6
Year 10	Food and digestive, circulatory and respiratory systems Photosynthesis Respiration (aerobic and anaerobic) Digestive system Chemistry of food Food tests Enzymes and digestion		Plant tissues and organs, Communicable and non- communicable disease Blood & blood vessels The heart & circulation The lungs and gaseous exchange Tissues and organs in plants Plant transport systems Evaporation and transpiration		Bioenergetics, biological responses Communicable diseases Growing bacteria Preventing and treating disease Non-communicable disease Metabolism and the liver The nervous system The brain and the eye	
	Assessment End of topic tests		Assessment Mock examination End of topic tests		Assessment End of topic tests	
Year 11	Biological responses, genetics and reproduction Hormonal control – blood glucose levels Reproduction and the menstrual cycle Homeostasis – controlling body temperature and removing waste. Types of reproduction Cell division & stem cells DNA and inheritance Variation Evolution Fossils and extinction classification		 Required practical focus RP1: Using a light microscope RP2: The effect of antiseptics or antibiotics on bacterial growth RP3: The effect of concentration on the mass of plant tissue (osmosis) RP4: Food tests RP5: The effect of pH on enzyme action RP6: The effect of light intensity on the rate of photosynthesis RP7: The effect of a factor on human reaction time RP8: The effect of gravity or light on the growth of newly germinated seedlings RP9: Measure the population size of a common species in a habitat RP10: The effect of temperature on the rate of decay. 		Revision • Paper 1 • Paper 2	
	Assessment Mock examination		Assessment		Assessment GCSE examinations (May/June)	
	End of topic tests		Past papers			