			Year 10 Science	Curriculum Plan			
Unit	Core		Hinterland		NC Coverage	Assessment	Whole Education
	Knowledge	Skills	Knowledge	Skills			Opportunities
CB5 – Health, disease and the development of medicines	 Health and disease – communicable/non- communicable diseases. Cardiovascular disease – causes and treatment Types of pathogen, examples and how they can be spread How the body prevents disease infection Sexually transmitted diseases Immunisation – types of white blood cell Antibiotics – use and development 	 Interpreting tabular data Interpreting graph data Interpretation of key words Developing exam skills Comparing advantages and disadvantages of a situation Recalling stages to a method Calculate BMI and waist:hip ratio Calculate cross-sectional areas of bacterial cultures and clear agar jelly using πr2 	 Smallpox eradication - vaccine success guinea worm eradication – poverty and clean water access John Snow – the history of cholera outbreak HPV – how can a virus increase the chance of cancer? Cardiovascular treatments – pig heart 	 Understanding academic journal abstracts Applying knowledge to real- 	B5.1 to 5.22	 End of topic assessment (30 marks) PR points using mixed topic assessments PLC tests (10 marks each) – 4 in this topic 	 RSHE– STI's myth buster quiz SMSC – Why is heart disease the number 1 killer? SMSC – Why are so many people vaccine hesitant and what are the consequences? Careers – epidemiologist Careers – Cardiologist
CB6 – Plant structures and their functions	 Photosynthesis – equations, key words, factors affecting it. Absorbing water and mineral ions – methods of transport Transportation and translocation – key words, methods of transport 	 Following a scientific method Recognising trends in data Developing exam skills Interpreting graphs Plotting scatter graphs Analysing data and concluding scientific ideas Health and safety understanding 	 Evolution of carnivorous plants and their impact on the environment Plants diseases and development in genetic studies to help avoid extinction of some species of plants 	Applying knowledge to real life situations	B7.1 to B7.22	 End of topic assessment (30 marks) PR points using mixed topic assessments PLC tests (10 marks each) – 3 in this topic 	 SMSC – plants used in different cultures Careers – Plant geneticist Carrers – Landscape designer RSHE – Use of plants to produce medicines
CB7 – Animal coordination, control and homeostasis	 Hormones – types, where produced – key words How hormones control metabolism and menstrual cycle Diabetes – how caused with reference to hormones 	 Interpretation of key words Developing exam skills Interpreting graph data 	 Eating habits in children that can lead to Type 2 diabetes (insulin related) Bacteria genetic engineered for production of insulin (links with Topic 3 genetics) 	 Applying knowledge to real life situations Links to different Biology topics 	B7.1 to B7.22	 End of topic assessment (30 marks) PR points using mixed topic assessments PLC tests (10 marks each) – 2 in this topic 	 SMSC – How hormones affect athletes and their performance; why doping is forbidden in sports Careers – Endocrinologist Carrers – Sports Nutritionist RSHE – Puberty and Hormones