Year 11 Biology			
1	SB5, Describe how some diseases can be identified, spread, and prevented, describe the role of modern medicine in health care	SB5, Explain how some diseases can be identified, spread, and prevented, explain the role of antibiotics & describe the role of immune system	SB5, Explain how some non-communicable & communicable diseases can be identified, treated and prevented, explain the role of antibiotics, vaccines & the role of immune system
2	SB6, Explain how light intensity affects the rate of photosynthesis; describes the role of the xylem and stomata in transporting water through a plant; describe some adaptations of plants to extreme environments	SB6, Explain how light intensity and carbon dioxide concentration affects the rate of photosynthesis; describes the plant structures used to transport sucrose, water and mineral ions; explain how plants are adapted to extreme environments; explain the role of auxins in tropisms	SB6, Explain the structures & roles of specialised cells used in photosynthesis and transport, explain mathematically how the processes of photosynthesis, transpiration and translocation are affected by various factors; explain plant adaptations to extreme environments; explain the use of specific plant hormones in tropisms and commercial uses like weedkillers and fruit ripening
3	SB7, Describe the role of homones in the human body, including diabetes, and how some of these influence the menstrual cycle; describe the structure of the urinary system	 SB7, Explain the role of hormones and nervous system on homeostasis, including diabetes, and the control of the menstrual cycle; describe the structure and function of the urinary system including filtration and ADH 	 SB7, Explain the interactions of hormones and the nervous system on homeostasis, including diabetes, and the control of the menstrual cycle, including contraception and Assisted Reproductive Technology; explain the function of the urinary system and how ADH affects the formation of urine
4	SB8, Describes the role of alveoli in gas exchange and the heart and in transport of substances; know some factors which influence diffusion	SB8, Explain how alveoli, blood vessels and the heart are adapted for their function; be able to use Cardiac output = stroke volume x heart rate; describe the interaction of factors influencing rate of diffusion	SB8, Explain in detail how alveoli, blood vessels and the heart are adapted to their function; be able to apply knowledge of respiration to changes in heart rate and breathing rate during exercise; Use Fick's Law to calculate rate of diffusion
5	 SB9, Be able to list a range of biotic and abiotic factors which influence the size of a community; describe how to sample an area using quadrats and transects; know how humans can positively and negatively influence the environment, and describe how indicator species can show this; know how carbon and water cycle through the environment 	 SB9, Explains why a range of biotic and abiotic factors influences the size of a community; explains how to sample an area using a range of techniques; explain how humans can positively and negatively influence the environment, explaining the use of indicator species; explain how carbon, water and nitrogen cycle through the environment; 	 SB9, Explains why a range of biotic and abiotic factors, including interdependence, influences the size of a community; explains how to use sampling to estimate the number of organisms in a habitat; explain how humans can positively and negatively impact local and global biodiversity, including explaining the use of specific named indcator species; explain the interactions which influence the water, carbon and nitrogen cycles.