

TOPIC	Biology		
	Year 7	Year 8	Year 9
1	Interdependence Food chains and webs; pyramids of numbers; impact of toxins on the food chain; predator-prey relationships; the importance of insects	The Digestive System Balanced diets; deficiency diseases; organs of the digestive system and their function; enzymes	Non-Communicable Disease Factors which impact health; risk factors of non-communicable diseases; cancer; recreational drugs
2	Organ Systems Human organ systems and their jobs, the skeletal system, the muscular system, plant organ systems	The Breathing System Organs of the breathing system and their function; mechanism of breathing; gas exchange, aerobic respiration; effect of exercise, asthma and smoking	Photosynthesis Photosynthesis; adaptations of leaves; limiting factors; uses of glucose; gas exchange in plants
3	Cells and Microscopes Hierarchy of organisation; plant and animal cell structure, organelle functions, specialised cells, microscopy, unicellular organisms; movement of substances by diffusion	Genetics Variation and heredity ; species; structure of DNA; selective breeding; natural selection and evolution; genetic engineering; importance and ways of maintaining biodiversity; extinction	Respiration Aerobic and anaerobic respiration in humans, plants and yeast; effect of exercise; fermentation; metabolism
4	Reproduction Human and plant reproductive systems; the menstrual cycle; puberty, fertilisation; pregnancy and birth		Adaptations, Interdependence and Competition Interdependence; a/biotic factors; adaptations; competition; investigating distribution and abundance