Name of the DP subject    SL and HL students are taught the option in the same class     Level   Higher   Standard     YEAR 2	
Level Higher  Standard	
Higher □ Standard □	
ILAN Z	
UNIT TOPIC/CONCEPT ASSESSMENT COMPONENTS	
9. Plant Biology 9.1 Transport in the xylem of plants External	
(HL ONLY)  Paper 1 assessment Paper 2 assessment pa	

	<ul> <li>Active Translocation</li> <li>Phloem Structure</li> <li>Phloem Loading</li> <li>Mass Flow</li> <li>Translocation Rate</li> <li>9. 3 Growth in plants</li> <li>Meristems</li> <li>Apical Growth</li> <li>Auxin</li> <li>Tropisms</li> <li>Micropropagation</li> <li>9.4 Reproduction in plants</li> <li>Plant Reproduction</li> <li>Flowering</li> <li>Flower Structure</li> <li>Photoperiodism</li> <li>Seed Structure</li> <li>Germination</li> </ul>	Paper 1 assessment Paper 2 assessment assessment objectives 1, 2 and 3.  IA Formative Tests Quizzes Presentations Research Think Pair Square IA
10. Genetics and Evolution (HL ONLY)	10.1 Meiosis  Interphase  Stages of Meiosis  Random Assortment  Chiasmata  Crossing Over	Paper 1 assessment Paper 2 assessment assessment objectives 1, 2 and 3. IA  Formative
	10. 2 Inheritance	Tests Quizzes

	<ul> <li>Dihybrid Crosses</li> <li>Linked Genes</li> <li>Recombinants</li> <li>Chi Squared Test</li> <li>Polygenic Traits</li> </ul>	Presentations Research Think Pair Square IA
	10.3 Gene pools and speciation  Evolution  Allele Distribution  Types of Selection  Isolation Barriers  Speciation  Pace of Speciation	Paper 1 assessment Paper 2 assessment assessment objectives 1, 2 and 3.  IA Formative Tests Quizzes Presentations Research Think Pair Square IA
11. Animal Physiology (HL ONLY)	11. Antibody production and vaccination	Paper 2 assessment assessment objectives 1, 2 and 3.  IA  Formative Tests Quizzes

<ul> <li>Self versus Non-Self</li> <li>Pathogenesis</li> <li>Clonal Selection</li> <li>Antibodies</li> <li>Immunity</li> <li>Allergens</li> <li>Vaccination</li> <li>Monoclonal Antibodies</li> </ul>	Practice Papers Presentations Research Think Pair Square IA
11. 2 Movement  ➤ Skeletal Framework	
> Joints	Paper 1 assessment
<ul><li>Muscles</li><li>Muscle Fibres</li></ul>	Paper 2 assessment
> Sarcomeres	assessment objectives 1, 2 and 3.
<ul><li>Muscle Contraction</li><li>State of Contraction</li></ul>	IA
11.3 The kidney and osmoregulation	Formative Tests Quizzes
Excretory Systems	Practice Papers
Malpighian Tubules	Presentations
Kidneys	Research
Nephrons	Think Pair Square IA
➤ Ultrafiltration	
> Selective Reabsorption	
<ul><li>Osmoregulation</li><li>Water Balance</li></ul>	

	<ul> <li>Kidney Disease</li> <li>11.4 Sexual reproduction</li> <li>Gametogenesis</li> <li>Reproductive Tissue</li> <li>Egg and Sperm</li> <li>Animal Fertilization</li> <li>Human Fertilization</li> <li>Embryo Development</li> <li>Human Chorionic Gonadotropin</li> <li>Placenta</li> <li>Birth Process</li> <li>Gestation Periods</li> </ul>	
UNIT	TOPIC/CONCEPT	ASSESSMENT COMPONENTS
Option D:	D.1 Human nutrition	
		Paper 2 assessment
<b>Human Physiology</b>		Paper 3 assessment
(HL and SL)		assessment objectives 1, 2 and 3.
		IA

	Essential Nutrients	
	Energy Sources	
	Amino Acids	
>	Amino Acids	
	Lipids	
	Vitamins	
	Minerals	
	Appetite and Diet	
>	Dietary Intake	
D.2 Dig	gestion	
>	Exocrine Glands	
>	Gastric Secretions	
>	Stomach Acid	
>	Intestinal Villi	
>	Dietary Fibre	
>	Digestive Infections	
		Paper 2 assessment
	nctions of the liver	Paper 3 assessment
>	Liver Blood Flow	
>	Liver Structure	assessment objectives 1, 2 and 3.
>	Nutrient Supply	IA
>	Detoxification	
>	Plasma Proteins	
>	Erythrocyte Recycling	
>	Jaundice	
D.4 Th	e heart	

	<ul> <li>Cardiac Muscle</li> <li>Cardiac Conduction</li> <li>Heart Sounds</li> <li>Electrocardiography</li> <li>Cardiac Output</li> <li>Heart Disorders</li> <li>Heart Treatments</li> </ul>	
Additional HL Human Physiology	<ul> <li>D.5 Hormones and metabolism</li> <li>Endocrine Glands</li> <li>Types of Hormones</li> <li>Pituitary Gland</li> <li>Growth Hormone</li> <li>Lactation</li> </ul> D.5 Transport of respiratory gases	Paper 2 assessment assessment objectives 1, 2 and 3.  IA  Paper 2 assessment Paper 3 assessment Paper 3 assessment assessment objectives 1, 2 and 3.  IA

➤ Lung Tissue
Oxygen Dissociation Curve
Carbon Dioxide Transport
➢ Blood pH
Bohr Shift
Respiratory Control
High Altitude Training
Emphysema

All Diploma Programme courses are designed as two-year learning experiences.