Group 4 Biology SL/HL.

	AIMS
	ciate scientific study and creativity within a global context through stimulating and llenging opportunities
2. acquir	e a body of knowledge, methods and techniques that characterize science and technology
	and use a body of knowledge, methods and techniques that characterize science and nology
4. develo	op an ability to analyse, evaluate and synthesize scientific information
	op a critical awareness of the need for, and the value of, effective collaboration and munication during scientific activities
6. develo	op experimental and investigative scientific skills including the use of current technologies
7. develo	op and apply 21st century communication skills in the study of science
	ne critically aware, as global citizens, of the ethical implications of using science and mology
9. develo	op an appreciation of the possibilities and limitations of science and technology
	lop an understanding of the relationships between scientific disciplines and their influence other areas of knowledge.

ASSESSMENT OBJECTIVES

- 1. Demonstrate knowledge and understanding of:
- a. facts, concepts and terminology
- b. methodologies and techniques
- c. communicating scientific information.
- 2. Apply:
- a. facts, concepts and terminology
- b. methodologies and techniques
- c. methods of communicating scientific information.
- 3. Formulate, analyse and evaluate:
- a. hypotheses, research questions and predictions
- b. methodologies and techniques
- c. primary and secondary data
- d. scientific explanations.

4. Demonstrate the appropriate research, experimental, and personal skills necessary to carry out insightful and ethical investigations.

LIST OF TOPICS				
Core 1. Cell biology	Option A. Neurobiology and behaviour			
 Molecular biology Genetics 	B. Biotechnology and bioinformaticsC. Ecology and conservation			
 Ecology Evolution and biodiversity 	D. Human physiology			
6. Human physiology				
Additional higher level (AHL) 7. Nucleic acids				
8. Metabolism, cell respiration and photosynthesis				
9. Plant biology 10. Genetics and evolution				
11. Animal physiology				

ASSESS MENT TYPE		IBDP WEIGHT %	
Internal Assessme nt	Personal Engagement	This criterion assesses the extent to which the student engages with the exploration and makes it their own.	1.5%
	Exploration	This criterion assesses the extent to which the student establishes the scientific context for the work, states a clear and focused research question and uses concepts and techniques appropriate to the DP level.	5%
	Analysts	This criterion assesses the extent to which the student's report provides evidence that the student has selected, recorded, processed and interpreted the data in ways that are relevant to the research question and can support a conclusion.	5%
	Evaluation	This criterion assesses the extent to which the student's report provides evidence of evaluation of the investigation and the results with regard to the research question and the accepted scientific context.	5%
	Communication	This criterion assesses whether the investigation is presented and reported in a way that supports effective communication of the focus, process and outcomes.	3.5%
External Assessme nt		Paper One SL/ HL Paper Two SL/HL Paper Three SL/HL	20 / 20 40 / 36 20 / 24