

SS Subject Curriculum & Assessment

Subject: Biology

Curriculum Aims		
<p>To enable students to:</p> <ul style="list-style-type: none"> ➤ develop and maintain an interest in biology, a sense of wonder and curiosity about the living world, and a respect for all living things and the environment; ➤ construct and apply knowledge of biology, understand the nature of science in biology-related contexts, and appreciate the relationships between biological science and other disciplines; ➤ develop the ability to make scientific inquiries; think scientifically, critically and creatively; and solve biology-related problems individually and collaboratively; ➤ understand the language of science and communicate ideas and views on biology-related issues; and ➤ be aware of the social, ethical, economic, environmental and technological implications of biology, and be able to make informed decisions and judgments on biology-related issues. ➤ develop an attitude of responsible citizenship, and a commitment to promote personal and community health. 		
Curriculum Framework and Progression of Study		
	Compulsory Part	Elective Part
SS1	<ol style="list-style-type: none"> 1. Cells and Molecules of Life <ol style="list-style-type: none"> a. Molecules of life b. Cellular organization c. Movement of substances across membrane d. Cell cycle and division e. Cellular energetics 2. Genetics and Evolution <ol style="list-style-type: none"> a. Basic genetics b. Molecular genetics c. Biodiversity and evolution 	
SS2	<ol style="list-style-type: none"> 3. Organisms and environment <ol style="list-style-type: none"> a. Essential life processes in plants b. Essential life processes in animals c. Reproduction, growth and development d. Coordination and response e. Homeostasis f. Ecosystems 4. Health and Diseases <ol style="list-style-type: none"> a. Personal health 	

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Curriculum Framework and Progression of Study			
	Compulsory Part	Elective Part	
SS3	4. Health and Diseases b. Diseases c. Body defence mechanisms	<ul style="list-style-type: none"> ● Applied Ecology ● Human Physiology: Regulation and Control 	
Assessment			
	Components	Weighting	Duration
Public Examination	Paper 1 (Compulsory part of the curriculum) Section A: MCQs Section B: Conventional Questions	18% 42%	2.5 hrs
	Paper 2 (Elective part of the curriculum) Structured Questions (Answer 2 out of 4 Qs)	20%	1 hr
School-Based Assessment	Whole curriculum Practical	20%	

For 2012 and onward

				S6	S5	S4
SBA	Minimum number of assessment	Practical related tasks (20%)	Area A (Practical skills) (8%)	1	1	
				2		
			Area B (Report) (12%)	1	1	
		2				
	Min. no. of practical related tasks for learning & teaching			8		