

GRADE 10 LIFE SCIENCES TERM 1 TEST: QUESTION ANALYSIS GRID														
		Cognitive Levels				Difficulty level					Topics			
		A	B	C	D	1	2	3	4	REASON				
Question	Marks	Basic knowledge	Comprehension	Application	Analysis, Synthesis & Evaluation	Easy	Moderate	Difficult	Very difficult	C = Content S = Stimulus T = Task E = Expected Response	BIOLOGICAL MOLECULES	THE CELL	MITOSIS	SCI. SKILLS
1.1.1	2	2				2				easy C with simple S and a two-step T (recognise and recall)	2			
1.1.2	2	2				2				easy C with simple S and a two-step T (recognise and recall)	2			
1.1.3	2	2				2				easy C with simple S and one-step T (recognise)			2	
1.1.4	2	2					2			recognise the correct definition from a list, but S is tricky (phrasing of definitions)		2		
1.1.5	2				2				2	confusing graph with scientific content, evaluation and synthesis required, insight into unknown experiment		2		
1.1.6	2			2				2		insight into validity within unfamiliar context, but setup given from which to infer		2		
1.2	4	4				4				simple, straightforward definitions	1	1	2	
1.3	4		4				4			simple, straightforward concepts that must be compared and evaluated	2	2		
2.1.1 (a)	2	2				2				simple C, common S (images), easy T and ER		2		
2.1.1 (b)	2	2				2				simple C, common S (images), easy T and ER			2	
2.1.2.	2	2					2			must compare to determine differences, recall of known content		2		
2.1.3	1	1				1				simple C, common S (image), easy T (recognise and recall)			1	
2.1.4	1		1				1			moderate T/S - follow-on question (relies on previous answer) and must give reason (ER)			1	
2.1.5	1			1			1			common C, moderate S, two-step T and simple ER			1	
2.1.6	2		2					2		difficult S (words in Q) and T depends on correct reading and identification of labels, ER requires comparison		2		
2.1.7	2		2					2		difficult S (words in Q) and T depends on correct reading and identification of labels, ER requires comparison		2		
2.1.8	7	6		1			6	1		simple C, moderate S, T hinges on understanding of given pic, ER in a paragraph, compulsory mark based on S and T			7	
3.1.1 (a)	1	1				1				recognise common pic and recall polymer	1			
3.1.1 (b)	1		1				1			recognise pic, asking properties, multi-step task, recognise, compare and recall	1			
3.1.1 (c)	1		1				1			recognise pic, asking properties, multi-step task, recognise, compare and recall	1			
3.1.2 (a)	1	1				1				simple, easy recall of amino acid	1			
3.1.2 (b)	1	1				1				simple, easy recall of peptide bond	1			
3.1.3 (a)	1	1				1				simple, easy recall of food test	1			
3.1.3 (b)	3			3				3		difficult S, evaluation, synthesis and explanation is required, but familiar scenario given	3			
3.1.3 (c)	1			1				1		difficult S, evaluation is required, familiar scenario given	1			
3.2.1	1	1				1				easy, straightforward recall	1			
3.2.2	1		1				1			understand diagram and recall enzyme	1			
3.2.3	2			2				2		S difficult, C learner (effect of temp.), T requires explanation and evaluation	2			
3.2.4	2				2			2		difficult S and T - has to read, understand, evaluate and conclude				2
3.2.5	1			1				1		S difficult (experimental setup), T difficult - interpret results and make conclusion, ER simple	1			
3.2.6	3				3				3	beyond scope of learned content, requires insight into text provided and evaluating need for a process	3			
SUMMARY	60	Cognitive summary				Difficulty summary								
Total		30	12	11	7	20	19	16	5	Total	25	17	16	2
Prescribed %		40	25	20	15	30	40	25	5	Prescribed (%) of paper				
Paper %		50	20	18	12	33	32	27	8	Percentage (%) of paper	42	28	27	3