

LIFE SCIENCES - GRADE 10 2017

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (11 January 2017 – 31 March 2017)		
How Science works	Scientific skills	<p>☞ Task 1 Written task: Ecology 30 Jan – 3 Feb</p> <p>☞ Task 2 Practical task: Food tests 6 – 10 March</p> <p>☞ Task 3 Controlled Test 22 – 31 March</p>
Biosphere to Ecosystems	Biosphere, Biomes, Environment and Ecosystems	
	Abiotic and biotic factors	
	Energy flow through ecosystems and ecotourism	
The Chemistry of Life	Molecules for life – inorganic compounds	
	Organic compounds	
	Vitamins	
Cells: The Basic Units of Life	Molecular make-up of cells	
	Cell structure and function	
PHASE 2 (18 April 2017 – 30 June 2017)		
Cells: The Basic Units of Life	Cell structure and function continued	<p>☞ Task 4 Practical task: Drawing of a cell 24 – 28 April</p>
	Cell differentiation and specialization	
Cell Division	Mitosis	
Plant Tissues	Simple tissues, epidermal tissues, vascular tissue	<p>☞ Task 5 Mid-term test: Cells and cell division 1 – 5 May</p> <p>☞ Task 6 June Exams 19 – 30 June</p>
Animal Tissues	Epithelia, connective, muscle, nervous.	
	Application of indigenous knowledge systems and biotechnology	
Organs	Leaf structure	
Support and Transport in Plants	Anatomy of dicotyledonous plants	
PHASE 3 (24 July 2017 – 10 November 2017)		
Support and Transport in Plants	Transpiration	<p>☞ Task 7 Practical task: Transpiration 7 – 11 Aug</p>
Support systems in animals	Skeletons – The human skeleton and its functions.	
	Joints, voluntary muscles, diseases of the skeleton	<p>☞ Task 8 Mid-term test: Support and transport in plants 14 – 18 Aug</p>
Transport in Mammals	The circulatory system	
	Lymph	
Biodiversity and Classification	Biodiversity and classification schemes	<p>☞ Task 9 Controlled Test: Support and transport in animals 11 – 15 Sept</p>
The History of Life on Earth	Change throughout the history of life on Earth	
	Fossils	<p>☞ Task 10 October Exam 30 Oct – 10 Nov</p>