

LIFE SCIENCES - GRADE 12 2020

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (5 November 2019 – 6 March 2020)		
Responding to the environment - Humans	Parts of the nervous system and reflexes	☞ Task 1 Practical 1 – Nervous system 18 – 22 Nov 2019
	The eye	
	The ear	
DNA: The code of life	Nucleic acids: Location, discovery and structure of DNA and RNA	☞ Task 2 Assignment – Human impact and nervous system 25 Nov – 4 Dec 2019
	DNA replication, DNA profiling and protein synthesis	
Meiosis	Review mitosis and introduce meiosis	☞ Task 3 Practical 2 – Meiosis 9 – 20 March
	The process of meiosis	
Human Impact on the environment	The atmosphere, water and food security	☞ Task 4 March Controlled Test 24 Feb – 6 March
	Loss of biodiversity /solid waste disposal	
Reproduction	Diversity of reproductive strategies	☞ Task 4 March Controlled Test 24 Feb – 6 March
	Human reproduction	
PHASE 2 (9 March 2020 – 29 May 2020)		
Reproduction	Human reproduction	☞ Task 5 Control Test – Human Reproduction and genetics 4 – 8 May
Genetics and inheritance	History of genetics	
	Monohybrid and dihybrid crosses	☞ Task 6 Mid-year Exam 18 – 29 May
	Mutations, sex-linked disorders	
Human endocrine system	Location of endocrine glands	☞ Task 7 Practical 3 – Plant hormones 1 – 5 June
	Role of these glands in the body	
Homeostasis	Homeostasis	
Responding to the environment - plants	Plant hormones	
PHASE 3 (1 June 2020 – 9 October 2020)		
Evolution by natural selection	Origin of ideas about evolution	☞ Task 8 Sept Controlled Test – Endocrine system, plant hormones and evolution 20 – 24 July
	Evolution by natural selection – Darwinism	
	Speciation	
	Mechanisms for reproductive isolation	
	Evolution in present times	
Human Evolution	Evidence for human evolution	☞ Task 9 Trials Exam 17 Aug – 4 Sept
	Out of Africa hypothesis	
	Importance of the Cradle of Humankind	