

3. ELABORATION OF CONTENT FOR GRADE 12 (CAPS) FROM 2014

A topic-wise elaboration follows, indicating the scope and depth of each topic. Note that the content elaborated does not attempt to address all four cognitive levels. It merely outlines the basic content that needs to be covered, but this content can be assessed at all four cognitive levels.

DNA: The Code of Life Paper 2: 27 marks	Term 1	2½ weeks
CONTENT	ELABORATION	
Introduction	☐ Revise the structure of the cell with an emphasis on the ribosome, cytoplasm and the parts of the nucleus. ☐ State that nucleic acids consist of nucleotides. ☐ Name the two types of nucleic acids.	
DNA: location, structure and functions	☐ State where DNA is located, as follows: • Makes up the genes on chromosomes (nuclear DNA) • Present in mitochondria (mitochondrial DNA) ☐ Describe the history of the discovery of the DNA molecule (Watson, Crick, Franklin & Wilkins). ☐ Name the three components of a DNA nucleotide as follows: • Nitrogenous bases linked by weak hydrogen bonds - Four nitrogenous bases of DNA: adenine (A), thymine (T), cytosine (C), guanine (G) - Pairing of bases in DNA occur as follows: A : T and G : C • Sugar portion (deoxyribose in DNA) • Phosphate portion ☐ State that the natural shape of the DNA molecule is a double helix. ☐ State the functions of DNA in terms of the following: • Sections of DNA forming genes carry hereditary information • DNA contains coded information for protein synthesis	
DNA replication	☐ Describe the following aspects of DNA replication: • When in the cell cycle it takes place • Where in the cell it takes place • How DNA replication takes place (names of enzymes not required) • The significance of DNA replication	
DNA profiling	☐ State what a DNA profile/DNA 'fingerprint' is. ☐ State the various uses of DNA profiles. ☐ State views for and against the use of DNA profiling.	
RNA: location, structure and functions	☐ State the location of RNA as follows: • mRNA is formed in the nucleus and functions on the ribosome. • tRNA is located in the cytoplasm. ☐ State that RNA plays a role in protein synthesis. ☐ Describe the structure of RNA as follows: • A single-stranded molecule consisting of nucleotides • Each nucleotide is made up of a sugar (ribose), phosphate and a nitrogen base • Four nitrogenous bases of RNA: adenine (A), uracil (U), cytosine (C), guanine (G)	
Comparison of DNA and RNA	☐ List similarities between DNA and RNA. ☐ Tabulate differences between DNA and RNA.	

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