

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 <i>DNA profile</i> / <i>DNA 'fingerprint'</i> 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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Table of Contents Life Science Scope For Grade 12

1. Understanding the eBook Life Science Scope For Grade 12
 - The Rise of Digital Reading Life Science Scope For Grade 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Life Science Scope For Grade 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Life Science Scope For Grade 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Life Science Scope For Grade 12
 - Personalized Recommendations
 - Life Science Scope For Grade 12 User Reviews and Ratings
 - Life Science Scope For Grade 12 and Bestseller Lists
5. Accessing Life Science Scope For Grade 12 Free and Paid eBooks
 - Life Science Scope For Grade 12 Public Domain eBooks
 - Life Science Scope For Grade 12 eBook Subscription Services
 - Life Science Scope For Grade 12 Budget-Friendly Options

6. Navigating Life Science Scope For Grade 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Life Science Scope For Grade 12 Compatibility with Devices
 - Life Science Scope For Grade 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Life Science Scope For Grade 12
 - Highlighting and Note-Taking Life Science Scope For Grade 12
 - Interactive Elements Life Science Scope For Grade 12
8. Staying Engaged with Life Science Scope For Grade 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Life Science Scope For Grade 12
9. Balancing eBooks and Physical Books Life Science Scope For Grade 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Life Science Scope For Grade 12
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Life Science Scope For Grade 12
 - Setting Reading Goals Life Science Scope For Grade 12
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Life Science Scope For Grade 12
 - Fact-Checking eBook Content of Life Science Scope For Grade 12
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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