

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

# Life Science Paper1 Grade 12 Scope

**Karin Nielsen-Saines**



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