

**LIFE SCIENCES GRADE 12**
**PRACTICAL TASK TERM 1 2023**
**DNA: THE CODE OF LIFE**
**DURATION: 45 Minutes**

|       |    |
|-------|----|
| Total |    |
|       | 30 |

**INSTRUCTIONS AND INFORMATION**

Read the following instructions carefully before answering the questions.

1. This is a formal SBA task and **MUST** be done under supervised conditions in the classroom.
2. Each learner completes this task **on his/her own** (under test conditions).
3. Present your answers as per the instructions of each question.
4. Draw all diagrams in pencil and label in blue ink.
5. The diagrams in this task may NOT be drawn to scale.

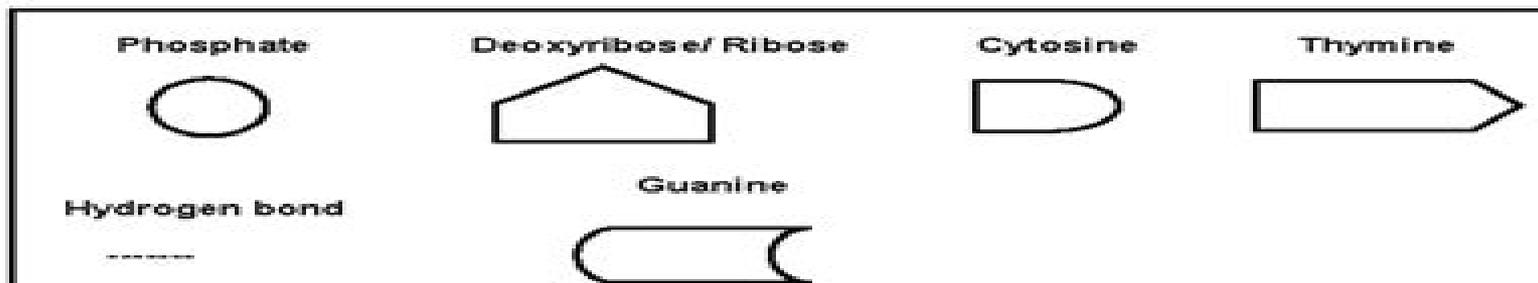
**BACKGROUND INFORMATION**

There are two types of nucleic acids in all living organisms – DNA (deoxyribonucleic acid) and RNA (ribonucleic acid). Together these form the basis of all life on earth.

They consist of monomers (building blocks) called nucleotides. In 1952 the British chemist, Rosalind Franklin and her assistant Maurice Wilkins researched the structure of DNA, using X-ray diffraction images. Watson and Crick did independent research on DNA. Upon seeing Franklin's images, they proposed a 3-D double helix model of DNA in 1953. In 1962 Watson and Crick received the Nobel Prize for the discovery of the structure of DNA, and Wilkins received an award for his X-ray photography. Franklin had died of cancer.

Source: DBE Life Sciences textbook

Diagram 1 below illustrates some of the components of nucleic acids.


**QUESTION 1**

# Hypothesis Practical Term1 2012 Life Sciences

**Сергей Мастицкий, Владимир  
Шитиков**

**Hypothesis Practical Term1 2012 Life Sciences:**

*Статистический анализ и визуализация данных с помощью R* Сергей Мاستицкий, Владимир Шитиков, 2022-01-29  
R R R R R <http://r-analytics.blogspot.com> R

## Whispering the Strategies of Language: An Psychological Quest through **Hypothesis Practical Term1 2012 Life Sciences**

In a digitally-driven earth where displays reign supreme and quick conversation drowns out the subtleties of language, the profound secrets and mental subtleties concealed within phrases frequently go unheard. However, located within the pages of **Hypothesis Practical Term1 2012 Life Sciences** a charming literary prize pulsating with raw thoughts, lies an exceptional quest waiting to be undertaken. Published by a talented wordsmith, that enchanting opus attracts viewers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the fabric of each and every word. Within the mental depths of the touching review, we will embark upon a heartfelt exploration of the book is primary styles, dissect its charming writing type, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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