

**GR 10 Paper 1 Life Sciences scope November 2023 (10 November 2023)**

|   |   |
|---|---|
| <b>Biological terms:</b><br>Interphase, Anaphase, Metaphase, Telophase, Collenchyma, phloem, Sclerenchyma, Parenchyma, cuticula, Transpirations, stomata, neuron, organic compound, connective tissue, chromatin, chromosome, foramen magnum, axial skeleton, cranium |   |
| <b>Chemistry of life</b>  | <b>Cells</b>  |
| Difference between organic and inorganic compounds  | Difference between animal cell and plant cell   |
| Examples of organic and inorganic compounds   | All the cell organelles and functions/rolls   |
| Monomers of all organic compound  | Describe the build of the nucleus, mitochondria, and chloroplast  |
| Elements of all the organic compounds   | <b>Investigation:</b> Osmose and diffusion (Look at the apparatus that we use and how to set up this Investigation) |
| Vitamins A, B, C, D, and E, and there deficiency diseases they can cause  | Explain osmose and diffusion  |
| <b>Enzymes</b>  |   |
| - Lock and key model  |   |
| - Function of enzymes   |   |
| Influence of temperature and pH on enzyme action  |   |
| <b>Mitosis</b>  | <b>Plant tissue</b>   |
| All the phases can identify and give reasons for your answers   | <b>Build and function of:</b><br>Collenchyma, Sclerenchyma, Parenchyma, Phloem, Xylem and stomata                   |
| Product of Mitosis  | Definition of tissue  |
| Difference between telophase in plant cells and animal cells  |   |
| Biological importance of Mitosis  |   |
| <b>Cancer: - Uncontrolled cell division and growth:</b><br>Causes and treatment of cancer   |   |
|   | <b>Function and build of:</b> Stomata, Xylem, and root hair   |
|   | <b>Adaptions</b> of Xylem for movement of water upwards   |
| <b>Animal tissue</b>  | <b>Plant organs</b>   |
| Name and identify all the animal tissues and where in the human body are they located.  | The labels and functions of the dorsiventral leaf.  |
| Functions of all the animal tissues   | Adaptions of the different parts of the leaf  |
| Name all the connective tissues   | Definition of an organ  |
| <b>Support and transport in plants</b>  | <b>Support in animals</b>   |
| Labels of dicotyledonous stem and root  | All the labels of the skeleton  |
| Difference between a dicotyledons root and stem   | Where do we find long bones in the skeleton   |
|   | Function of the skeleton  |
| <b>Investigation:</b> The rate of transpirations (Potometer)  |   |
| The effect of environmental factors on transpiration (Wind, Temperature and Light.)   |   |

# Life Science Grade10 Scope Paper1

**Wolfgang Guggemos**

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the author's name.

## **Life Science Grade10 Scope Paper1:**

## Unveiling the Magic of Words: A Review of "**Life Science Grade10 Scope Paper1**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Life Science Grade10 Scope Paper1**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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