

**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 Grade 1november 2014

**Sebastian Brünink**



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