

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

<b>Biological terms:</b> 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> 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> 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
Investigation: The rate of transpirations (Potometer)	Function of the skeleton
The effect of environmental factors on transpiration (Wind, Temperature and Light.)	

# Life Sciences Paper1 November 2014 Grade11

**Mike Jess**



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