

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

# 2014 Exemplar P1 Life Science

**Steven M. Miller**



## **2014 Exemplar P1 Life Science:**

**The Constitution of Phenomenal Consciousness** Steven M. Miller, 2015-06-15 Philosophers of mind have been arguing for decades about the nature of phenomenal consciousness and the relation between brain and mind More recently neuroscientists and philosophers of science have entered the discussion Which neural activities in the brain constitute phenomenal consciousness and how could science distinguish the neural correlates of consciousness from its neural constitution At what level of neural activity is consciousness constituted in the brain and what might be learned from well studied phenomena like binocular rivalry attention memory affect pain dreams and coma What should the science of consciousness want to know and what should explanation look like in this field How should the constitution relation be applied to brain and mind and are other relations like identity supervenience realization emergence and causation preferable Building on a companion volume on the constitution of visual consciousness AiCR 90 this volume addresses these questions and related empirical and conceptual territory It brings together for the first time scientists and philosophers to discuss this engaging interdisciplinary topic

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