

**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.)	

# Life Sciences November Paper 1 Scope

**EW Minium**



## **Life Sciences November Paper 1 Scope:**

**Pathways to the Science Standards** Steven J. Rakow, 1998 The purposes of this guide are to demonstrate how to apply the National Science Education Standards to the real world of the middle school classroom and to serve as a tool for collaboration among principals state and local administrators parents and school board members Different sections focus on science teaching standards professional development standards assessment standards content standards program standards and system standards The unifying concepts and processes discussed in the content standards include science as inquiry physical science life science earth and space science science and technology science in personal and social perspectives and the history and nature of science The appendices contain an account of the relevant history of the National Science Education Standards the actual National Science Education Standards and ideas about the design of middle school science facilities

**DDR Author's Handbook of Styles for Life Science Journals** Michel Atlas, 1995-11-08 Let the Author's Handbook of Styles for Life Science Journals save you time and trouble by providing a one stop resource for all your manuscript writing requirements No more plowing through your journal collection or wandering the library stacks to get those elusive journal pages containing instructions to authors This unique book contains all the information you need to know whether the journal will consider your manuscript the journal's submission address how to construct the abstract illustrations tables and references and specific information on copyright multiple authorship statistical analyses and page charges The Author's Handbook of Styles for Life Science Journals gives all this information for 440 of the most important English language life science journals Titles were selected from the Journal Rankings by Times Cited list in the Science Citation Index Journal Citation Report Because this report is heavily weighted toward the medical sciences other life science journals are incorporated into the book based on general level of prestige and reputation In addition some new titles that promise to be important to their fields like Nature Medicine and Emerging Infectious Diseases are also included Organized by journal title the handbook's entries are uniformly arranged to allow direct comparison between journals Information is presented in an easy to use easy to read format with clear and explicitly stated instructions The Author's Handbook of Styles for Life Science Journals gives authors in the life sciences all the information necessary for the correct and complete compilation of a manuscript for submission to their journal of choice

**Knowledge Exploration in Life Science Informatics** Jesús A. López, Emilio Benfenati, Werner Dubitzky, 2005-01-27 This volume of the Springer Lecture Notes in Computer Science series contains the contributions presented at the International Symposium on Knowledge Exploration in Life Science Informatics KELSI 2004 held in Milan Italy 25-26 November 2004 The two main objectives of the symposium were To explore the symbiosis between information and knowledge technologies and various life science disciplines such as biochemistry biology neuroscience medical research social sciences and so on To investigate the synergy among different life science informatics areas including cheminformatics bioinformatics neuroinformatics medical informatics systems ology socionics

and others Modern life sciences investigate phenomena and systems at the level of molecules cells tissues organisms and populations Typical areas of interest include natural evolution development disease behavior cognition and consciousness This quest is generating an overwhelming and fast growing amount of data information and knowledge reflecting living systems at different levels of organization Future progress of the life sciences will depend on effective and efficient management sharing and exploitation of these resources by computational means

**Contemporary Classics in the Life Sciences: The molecules of life** James T. Barrett, 1986 **Bulletin**, 1979 **Proceedings of the High School Conference of November 1910-November 1931** Horace Adelbert Hollister, 1926 **The Publishers' Circular and General Record of British and Foreign Literature**, 1873 **Bulletin of the American Museum of Natural History** American Museum of Natural History, 1926 Comprises articles on geology paleontology mammalogy ornithology entomology and anthropology

**Science & Technology Review**, 2010 *Proceedings of the High School Conference of November 1910-November 1931*, 1917 *New York Medical Journal, and Philadelphia Medical Journal*, 1914 *Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record*, 1873 *Publishers' circular and booksellers' record*, 1873 *International Atomic Energy Agency Bulletin*, 1979 **Resources in Education**, 1981 *International GAAP*

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**The Amateur Photographer**, 1915 The popular illustrated journal for all photographers devoted to the interests of photography and kindred arts and sciences **The Amateur Photographer and Photographic News**, 1915 *The Publishers Weekly*, 2004 *Earth at Hand* Sharon M. Stroud, Jeffrey C. Callister, 1993

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Horsepower rpm, 6,000 ; Torque, 413 lb-ft. ; Torque rpm, 2,700 ; Drive type, all-wheel drive.