



## GR 11 Life Sciences Paper 2 scope

- 1 November 2024 -

*The following framework outlines the detailed assessment of topics covered in the examination. Teachers are advised to review it with learners to ensure full understanding and effective preparation.*

<b>Biological terms:</b> Ecosystems, ecology, environment, ecological niche, Interspecific competition, Intraspecific competition, Competitive exclusion, population density, population size, mortality, natality, chordate, cephalization, immigration, emigration, predator, prey, parasitism, resource partitioning, competition, parasitism, mutualism, commensalism, census, eukaryotic, procaryotic, alien plant species, monocultures, poaching, culling, eutrophication, , thallus, , indigenous plants, global warming, carbon footprint, food security , biodiversity , ozone, rhizoids, rhizome , pistil, invertebrates, specie, population, vaccination, antibiotics, pathogen, sexual reproduction	
<b>Micro -organisms</b> Structure and characteristics of: <ul style="list-style-type: none"><li>- Viruses</li><li>- Bacterium</li><li>- Fungi</li><li>- Protista</li></ul>	<b>Biodiversity in plants</b> - Identify the different plant groups <ul style="list-style-type: none"><li>- The presents or absence of the key features of the four groups of plants:<ul style="list-style-type: none"><li>- Vascular tissues</li><li>- True leaves</li><li>- Seed or spore</li><li>- Fruit</li><li>- Water for reproduction</li></ul></li><li># Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes</li></ul>
Conditions in which bread mould grow	
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
<b>Malaria</b> - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
<b>Biodiversity in Animals</b>	<b>Population Ecology</b>
Key features of the six Phyla: <ul style="list-style-type: none"><li>- Symmetry</li><li>- Number and names of tissues layers</li><li>- Number of openings in gut</li><li>- Coelom</li><li>- Cephalisation</li><li>- Blood systems</li></ul>	<ul style="list-style-type: none"><li>- Factors that influence population size</li><li>- Logistic and geometric growth curves and their phases</li><li>- Predator-prey relation</li><li># Be able to determine which graph indicate the prey/predator and why</li><li>- Determine the size of a population: Quadrant method and mark/capture</li></ul>

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## **Life Sciences Paper 2 November 2014 Grade 11:**

**Community Quality-of-Life Indicators** Frank Ridzi, Chantal Stevens, Melanie Davern, 2020-06-25 This book offers critical insights into the thriving international field of community indicators incorporating the experiences of government leaders philanthropic professionals community planners and a wide range of academic disciplines It illuminates the important role of community indicators in diverse settings and the rationale for the development and implementation of these innovative projects This book details many of the practical how to aspects of the field as well as lessons learned from implementing indicators in practice The case studies included here also demonstrate how using a variety of data applications leaders of today are monitoring and measuring progress and communities are empowered to make sustainable improvements in their wellbeing With examples related to the environment economy planning community engagement and health among others this book epitomizes the constant innovation collaborative partnerships and the consummate interdisciplinarity of the community indicators field of today

**Women in Science Now** Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

**Born to Choose** John H Falk, 2017-09-05 Born to Choose is John H Falk s compelling account of why and how we make the endless set of choices we do every second of every day of our lives Synthesizing research from across the biological and social sciences Falk argues that human choice making is an evolutionarily ancient and complex process He suggests that all our choices are influenced by very basic and early evolving needs and that ultimately each choice is designed to support survival in the guise of perceived well being This engaging book breaks new intellectual ground and enhances our understanding not just of human choice making but human behavior overall

**Toward Comprehensive Understanding of the Suicidal Phenomenon** Zoltán - Rihmer, Alberto Forte, Xenia Gonda, Maurizio Pompili, 2021-08-10

*Health Informatics - E-Book* Ramona Nelson, Nancy Staggers, 2016-12-08 Awarded second place in the 2017 AJN Book of

the Year Awards in the Information Technology category See how information technology intersects with health care Health Informatics An Interprofessional Approach 2nd Edition prepares you for success in today s technology filled healthcare practice Concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth ePatients and social media tools as well as system implementation New to this edition are topics including data science and analytics mHealth principles of project management and contract negotiations Written by expert informatics educators Ramona Nelson and Nancy Staggars this edition enhances the book that won a 2013 American Journal of Nursing Book of the Year award Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics a key Quality and Safety Education for Nurses QSEN initiative and a growing specialty area in nursing Case studies encourage higher level thinking about how concepts apply to real world nursing practice Discussion questions challenge you to think critically and to visualize the future of health informatics Objectives key terms and an abstract at the beginning of each chapter provide an overview of what you will learn Conclusion and Future Directions section at the end of each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation NEW Updated chapters reflect the current and evolving practice of health informatics using real life healthcare examples to show how informatics applies to a wide range of topics and issues NEW mHealth chapter discusses the use of mobile technology a new method of health delivery especially for urban or under served populations and describes the changing levels of responsibility for both patients and providers NEW Data Science and Analytics in Healthcare chapter shows how Big Data as well as analytics using data mining and knowledge discovery techniques applies to healthcare NEW Project Management Principles chapter discusses proven project management tools and techniques for coordinating all types of health informatics related projects NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor NEW Legal Issues chapter explains how federal regulations and accreditation processes may impact the practice of health informatics NEW HITECH Act chapter explains the regulations relating to health informatics in the Health Information Technology for Education and Clinical Health Act as well as the Meaningful Use and Medicare Access CHIP Reauthorization Act of 2015

**Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Commons,2010

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**National Union Catalog** ,1983 Includes entries for maps and atlases **Radio News** ,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in

1943     *Scientific American* ,1885 Monthly magazine devoted to topics of general scientific interest     National Union Catalog, 1982 ,1983     *The Value Line Convertibles Survey* ,2009     *Industrial Development Report* United Nations Publications,2016-01-14 This report looks at how technology and innovation achieves inclusive and sustainable industrial development ISID Its main finding is that ISID is feasible and technology can simultaneously serve all three dimensions of sustainability including economic social and environmental Rapid inclusive and sustainable industrialization can happen more frequently provided that policymakers firmly steer the industrialization process with opportune policies and avoid past mistakes In some cases the spread of technology has not materialized in concrete growth opportunities because of the lack of technological capabilities Innovation needs to be supported by interventions strengthening the process from invention to adoption as capabilities are developed and high tech manufacturing sectors are created seeing higher rates of sustainable growth     **Current Law Index** ,1999

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