



## 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.*

### Biological terms:

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

### Micro -organisms

Structure and characteristics of:

- Viruses
- Bacterium
- Fungi
- Protista

Conditions in which bread mould grow

Explain what a heterotrophic organism is

The role that Fungi plays in the environment

**Malaria** - What cause malaria

- Symptoms of malaria
- How can you prevent malaria

### Biodiversity in Animals

Key features of the six Phyla:

- Symmetry
- Number and names of tissues layers
- Number of openings in gut
- Coelom
- Cephalisation
- Blood systems

### Biodiversity in plants

- Identify the different plant groups

- The presents or absence of the key features of the four groups of plants:

- Vascular tissues
- True leaves
- Seed or spore
- Fruit
- Water for reproduction

**# Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes**

Structure of a flower

Adaptions for wind pollinations

Advantages of sexual reproduction

### Population Ecology

- Factors that influence population size
- Logistic and geometric growth curves and their phases
- Predator-prey relation
- # Be able to determine which graph indicate the prey/predator and why**
- Determine the size of a population: Quadrant method and mark/capture

# Life Science Paper November 2008

**W. R. Carlile, Anne Coules**



## **Life Science Paper November 2008:**

3rd fib Congress Washington USA FIB - International Federation for Structural Concrete, 2010-06-01      *The Child Surveillance Handbook* David Hall, Jonathan Williams, David Elliman, 2018-05-08 Previous editions of The Child Surveillance Handbook have built its reputation as the essential reference guide for GPs health visitors and other members of the healthcare team in primary care Now thoroughly revised and updated this new edition remains the authoritative guide to child surveillance promoting the health welfare and life chances of children      Handbook of Data Intensive Computing Borko Furht, Armando Escalante, 2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors      *UNEP Year Book 2009* United Nations, 2009-02 UNEP Year Book 2009 New Science and Developments in our Changing Environment presents work in progress on scientific understanding of global environmental change as well as foresight about possible issues on the horizon The aim is to raise awareness of the interlinkages among environmental issues that can accelerate the rates of change and threaten human wellbeing The chapters of the Year Book track the same trajectory as our awareness of environmental change Transformations are inherent to this trajectory and are taking place on many fronts from industrial agriculture to eco agriculture from a wasteful society towards a resource efficient one and from a triad of competing interests among civil society the private sector and governments to a more cooperative model based on mutual benefits      **Science & Technology Review**, 2010      **Python in Neuroscience** Eilif Muller, James A. Bednar, Markus Diesmann, Marc-Oliver Gewaltig, Michael Hines, Andrew P. Davison, 2015-07-23 Python is rapidly becoming the de facto standard language for systems integration Python has a large user and developer base external to the neuroscience community and a vast module library that facilitates rapid and maintainable development of complex and intricate systems In this Research Topic we highlight recent efforts to develop Python modules for the domain of neuroscience software and neuroinformatics simulators and simulator interfaces data collection and analysis sharing re use storage and databasing of models and data stimulus generation parameter search and optimization visualization VLSI

hardware interfacing Moreover we seek to provide a representative overview of existing mature Python modules for neuroscience and neuroinformatics to demonstrate a critical mass and show that Python is an appropriate choice of interpreter interface for future neuroscience software development

*Food Toxicology* Debasis Bagchi, Anand Swaroop, 2016-11-25 Food toxicology studies how natural or synthetic poisons and toxicants in diverse food products cause harmful detrimental or adverse side effects in living organisms Food toxicology is an important consideration as food supply chain is becoming more multinational in origin and any contamination or toxic manifestation may cause serious wide spread adverse health effects Food Toxicology covers various aspects of food safety and toxicology including the study of the nature properties effects and detection of toxic substances in food and their disease manifestations in humans It will also include other aspects of consumer product safety The first two chapters discuss the measurement of toxicants and toxicity and the importance of dose response in food toxicology Additional chapters discuss the aspects of food associated carcinogenesis and food derived chemical carcinogenesis food allergy pathogens associated with fruits and vegetables and the detrimental effects of radionuclides exposure The chapters also cover the most important heavy metal contaminants namely mercury lead and vanadium and Fluoride toxicity which is extensively discussed in its own chapter Toxicologists scientists researchers in food toxicology nutritionists and public health care professionals will find valuable information in this book on all possible intricate areas of food toxicology

**Zoological Studies** ,1994 21st-Century Statecraft Nayef Al-Rodhan, 2022-07-28 From civilisational frontier risks associated with new challenges like disruptive technologies to the shifting nature of great power conflicts and subversion the 21st century requires a new approach to statecraft In 21st Century Statecraft Professor Nayef Al Rodhan proposes five innovative statecraft concepts He makes the case for a new method of geopolitical analysis called meta geopolitics and for dignity based governance He shows how in an interdependent and interconnected world traditional thinking must move beyond zero sum games and focus on multi sum and symbiotic realist interstate relations This requires a new paradigm of global security premised on five dimensions of security and a new concept of power just power which highlights the centrality of justice to state interests These concepts enable states to balance competing interests and work towards what the author calls reconciliation statecraft Throughout Professor Al Rodhan brings his philosophical and neuroscientific expertise to bear providing a practical model for conducting statecraft in a sustainable way

*Aerospace America* ,2007 Proceedings of the American Academy of Arts and Sciences American Academy of Arts and Sciences, 1910

*White Paper on Science and Technology* ,2010 **Ship Without Sails** Amelia Du Rand, 2008 The Journal of Experimental Biology ,2009 *Scientific American* ,1905 History of Science in America, News and Views ,2007

**Journal of the Royal Society, Interface** ,2009 *Washington State Register* ,2007 contains the full text of proposed emergency and permanently adopted rules of state agencies executive orders of the governor notices of public meetings of state agencies rules of the state supreme court summaries of attorney general opinions and juvenile disposition standards

*Proceedings of the International Symposium on Growing Media 2007* W. R. Carlile, Anne Coules, 2009  
American Statistical Association, 2008

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advocates for more explicit, direct teaching as opposed to the dominant, inquiry based teaching methods of today. Direct Instruction, Explicit Teaching, Mastery Learning and ... Jul 23, 2021 — Explicit Direct Instruction (EDI) was developed by John Hollingsworth and Dr Silvia Ybarra in the early 2000s. It is based on educational theory ... Explicit instruction myths and strategies - FUSE Feb 26, 2021 — John is an advocate for explicit teaching. John provides strategies for leaders at a whole school level irrespective of student age or stage ... John Fleming Explicit Teaching Warm Ups Oct 7, 2022 — A proven method for better teaching, better learning, and better test scores! This teacher-friendly book presents a step-by-step approach for. 26 Explicit teaching john fleming ideas - Pinterest The I Do WE Do YOU Do Model Explained - Evidence-Based Teaching · Instructional Strategies · Learning Strategies ; Teaching Methods: John Fleming - explicit ... The Five Secrets to Teaching Great Writing John Fleming (2014, 2015) says that 'for any learning activity to be effective it has to be taught step by step'. Using explicit instruction techniques in the ... "Teaching Methods: John Fleming - explicit instruction myths ... by D Meloney · 2015 · Cited by 2 — Want to use explicit instruction in the classroom but aren't sure how to approach it? Teacher asked John Fleming for some tips. FNQ Explicit Teaching Guidelines The FNQ Regional Explicit Teaching Model provides a common starting point. It is recommended that those new to ... John Fleming, FNQ Educational Consultant.