

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

Biological terms: Interphase, Anaphase, Metaphase, Telophase, Collenchyma, phloem, Sclerenchyma, Parenchyma, cuticula, Transpirations, stomata, neuron, organic compound, connective tissue, chromatin, chromosome, foramen magnum, axial skeleton, cranium	
Chemistry of life	Cells
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	Investigation: 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
Enzymes	
- Lock and key model	
- Function of enzymes	
Influence of temperature and pH on enzyme action	
Mitosis	Plant tissue
All the phases can identify and give reasons for your answers	Build and function of: 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	
Cancer: - Uncontrolled cell division and growth: Causes and treatment of cancer	
	Function and build of: Stomata, Xylem, and root hair
	Adaptions of Xylem for movement of water upwards
Animal tissue	Plant organs
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
Support and transport in plants	Support in animals
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
Investigation: The rate of transpirations (Potometer)	
The effect of environmental factors on transpiration (Wind, Temperature and Light.)	

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Mike Jess



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US-China Global Maritime Relations Nong Hong, 2023-12-01 This book explores the U S China maritime relationship examining the development and implementation of the maritime strategies of both the United States and China Delving into the U S China maritime relationship within the global context the book investigates six key maritime regions the South China Sea the Northeast Asia waters the East China Sea the Yellow Sea the Indian Ocean the South Pacific Ocean as well as the Arctic and Antarctic regions Its observations form a comprehensive exploration of these regions and their significance in shaping the dynamics between the two nations and this analysis reveals that an expanded view is necessary to discover and clearly display the role that these maritime regions currently and could potentially play in overarching U S China relations Examining both the ongoing conflicts and opportunities for cooperation in the global maritime domain between the United States and China this book will be a valuable resource to students and scholars of international relations Chinese and U S politics strategic studies and maritime studies

Rethinking Political Risk Cecilia Emma Sotttilotta, 2016-10-14 Political risk was first introduced as a component for assessing risk not directly linked to economic factors following the flow of capital from the US to Europe after the Second World War However the concept has rapidly gained relevance since with both public and private institutions developing complex methodologies designed to evaluate political risk factors and keep pace with the internationalization of trade and investment Continued global and regional economic and political instability means a plethora of different actors today conduct a diverse range of political risk analyses and assessments Starting from the epistemological foundations of political risk this books bridges the gap between theory and practice exploring operationalization and measurement issues with the support of an empirical case study on the Arab uprisings discussing the role of expert judgment in political forecasting and highlighting the main challenges and opportunities political risk analysts face in the wake of the digital revolution

Brocklehurst's Textbook of Geriatric Medicine and Gerontology E-Book Howard M. Fillit, Kenneth Rockwood, John B Young, 2016-05-06 The leading reference in the field of geriatric care Brocklehurst s Textbook of Geriatric Medicine and Gerontology 8th Edition provides a contemporary global perspective on topics of importance to today s gerontologists internal medicine physicians and family doctors An increased focus on frailty along with coverage of key issues in gerontology disease specific geriatrics and complex syndromes specific to the elderly makes this 8th Edition the reference you ll turn to in order to meet the unique challenges posed by this growing patient population Consistent discussions of clinical manifestations diagnosis prevention treatment and more make reference quick and easy More than 250 figures including algorithms photographs and tables complement the text and help you find what you need on a given condition Clinical relevance of the latest scientific findings helps you easily apply the material to everyday practice A new chapter on frailty plus an emphasis on frailty throughout the book addresses the complex medical and social issues that affect care and the specific knowledge and skills essential for meeting your patients complex needs New content brings you

up to date with information on gerontechnology emergency and pre hospital care HIV and aging intensive treatment of older adults telemedicine the built environment and transcultural geriatrics New editor Professor John Young brings a fresh perspective and unique expertise to this edition

The Closing of the Liberal Mind Kim R. Holmes, 2017-12-12 A former U S Assistant Secretary of State and currently Acting Senior Vice President for Research at The Heritage Foundation Kim R Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite illiberalism abandoning the precepts of open mindedness and respect for individual rights liberties and the rule of law upon which the country was founded and becoming instead an intolerant rigidly dogmatic ideology that abhors dissent and stifles free speech Tracing the new illiberalism historically to the radical Enlightenment a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding Holmes argues that today s liberalism has forsaken its American roots incorporating instead the authoritarian anti clerical and anti capitalist prejudices of the radical and largely European Left The result is a closing of the American liberal mind Where once freedom of speech and expression were sacrosanct today liberalism employs speech codes trigger warnings boycotts and shaming rituals to stifle freedom of thought expression and action It is no longer appropriate to call it liberalism at all but illiberalism a set of ideas in politics government and popular culture that increasingly reflects authoritarian and even anti democratic values and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process Although illiberalism has always been a temptation for American liberals lurking in the radical fringes of the Left it is today the dominant ideology of progressive liberal circles This makes it a new danger not only to the once venerable tradition of liberalism but to the American nation itself which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties

Introduction to Sociology George Ritzer, Wendy Wiedenhof Murphy, 2019-07-30 Show students the relevance of sociology to their lives While providing a rock solid foundation Ritzer and Wiedenhof illuminate traditional sociological concepts and theories as well as some of the most compelling contemporary social phenomena globalization consumer culture the Internet and the McDonaldization of society

[Yearbook of International Organizations 2014-2015 \(Volume 4\)](#) Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on

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