

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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Tai Ming Cheung



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Science Blogging Christie Wilcox,Bethany Brookshire,Jason G. Goldman,2016-01-01 Here is the essential how to guide for communicating scientific research and discoveries online ideal for journalists researchers and public information officers looking to reach a wide lay audience Drawing on the cumulative experience of twenty seven of the greatest minds in scientific communication this invaluable handbook targets the specific questions and concerns of the scientific community offering help in a wide range of digital areas including blogging creating podcasts tweeting and more With step by step guidance and one stop expertise this is the book every scientist science writer and practitioner needs to approach the Wild West of the Web with knowledge and confidence

A Parents' Guide to Grading and Reporting Matt Townsley,Chad Lang,2023-09-15 Whether resulting from the educational fallout of the COVID 19 global pandemic or merely challenging the status quo more schools are transitioning their grading practices away from traditional points and percentages and toward 21st century grading practices such as standards based and proficiency based grading A Parents Guide to Grading and Reporting Being Clear about What Matters assists parents and guardians in understanding what is involved in 21st century grading and how to become better partners with educators in efforts to understand students strengths and areas for improvement

Psychology and the Challenges of Life Spencer A. Rathus,Jeffrey S. Nevid,2019-09-18 In the 14th edition of this market leading title Psychology and the Challenges of Life Adjustment and Growth authors Spencer Rathus and Jeffrey Nevid continue to reflect on the many ways in which psychology relates to the lives we live and the important roles that psychology can play in helping us adjust to the many challenges we face in our daily lives Throughout the text the authors explore applications of psychological concepts and principles in meeting life challenges such as managing time developing self identity building and maintaining relationships adopting healthier lifestyles coping with stress and dealing with emotional problems and psychological disorders The new edition has been thoroughly updated to meet the needs and concerns of a new generation of students It provides additional information on psychology in the digital age social media the current Opioid crisis as well as offering greater coverage of matters concerning sexuality and gender and sexual orientation

Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products Guido Sonnemann,Michael Tsang,Marta Schuhmacher,2018-10-10 Life cycle assessment is a methodology used to evaluate the environmental impacts of a product process or service during its life cycle and risk assessment is a tool to evaluate potential hazards to human health and the environment introduced by pollutant emissions The United Nations Sustainable Development Goals call for among other objectives responsible consumption and production by decoupling environmental resource use and environmental impacts from economic growth and human well being Life cycle assessment and risk assessment are both analytical system approaches that allow scientists and other decision makers to address these issues and objectives according to the current understanding of environmental mechanisms This book is the first attempt to illustrate the existing interfaces between life

cycle assessment and risk assessment and to indicate options for further integration of both tools The second edition Focuses on sustainability Considers new developments in life cycle assessment and environmental risk assessment over the last ten years at the international level Introduces broader concepts and discussions on integrative versus the complementary use of life cycle and risk assessments Extends the scope of integrated life cycle and risk assessments to critical raw materials Includes more case studies and discusses engineered nanomaterials Featuring contributions from leading experts Integrated Life Cycle and Risk Assessment for Industrial Processes and Products is a great reference for graduate students and professionals in environmental management and intends to catalyze communication between life cycle assessment and risk assessment experts and scientists in academia industry and governmental agencies The practical format of the book illustrated with flowcharts examples exercises and concrete applications makes it a useful manual for analyzing situations and making decisions

Fanon, Frantz, and the Violence of Resistance Zahi Zalloua, 2025-06-26 In a novel pairing of anti colonial theorist Frantz Fanon with Marxist Lacanian philosopher Slavoj Žižek Zahi Zalloua explores the ways both thinkers expose the violence of political structures This inventive exploration advances an anti racist critique describing how ontology operates in a racial matrix to produce some human bodies that count and others deemed not quite or non human that do not For Fanon and Žižek the violence of ontology must be met with another form of violence a revolutionary violence that delegitimizes the logic of the symbolic order and troubles its collective fantasies Whereas Fanon begins his challenge to ontology by exposing its historical linkages to Europe's destructive imperialist procedures before proceeding to stretch Marxism along with psychoanalysis to account for the crushing neo colonial situation Žižek premises his work on the refusal to accept the totality of ontology Because of these different points of intervention Fanon and Žižek together offer a powerful and multifaceted assessment of the liberal anti racist paradigm whose propensity for identity politics and aversion to class struggle silence the cry of the dispossessed and foreclose radical change Avoiding contemporary separatist temptations decoloniality and Afropessimism and breaking with a non violent sentimentalist futurology that announces more of the same Fanon and Žižek point in a different direction one that eschews identitarian thought in favor of a collective struggle for freedom and equality

Innovate to Dominate Tai Ming Cheung, 2022-08-15 In *Innovate to Dominate* Tai Ming Cheung offers insight into why how and whether China will overtake the United States to become the world's preeminent technological and security power This examination of the means and ends of China's quest for techno security supremacy is required reading for anyone looking for clues as to the long term direction of the global order The techno security domain Cheung argues is where national security innovation and economic development converge and it has become the center of power and prosperity in the twenty first century China's paramount leader Xi Jinping recognizes that effectively harnessing the complex interactions among security innovation and development is essential in enabling China to compete for global dominance Cheung offers a richly detailed account of how China is building a potent techno security state In *Innovate to*

Dominate he takes readers from the strategic vision guiding this transformation to the nuts and bolts of policy implementation The state led top down mobilizational model that China is pursuing has been a winning formula so far but the sternest test is ahead as China begins to compete head to head with the United States and aims to surpass its archrival by mid century if not sooner Innovate to Dominate is a timely and analytically rigorous examination of the key strategies guiding China s transformation of its capabilities in the national technological military and security spheres and how this is taking place Cheung authoritatively addresses the burning questions being asked in capitals around the world Can China become the dominant global techno security power And if so when *Lifespan Development* Michele Hoffnung,Robert J. Hoffnung,Kelvin L. Seifert,Alison Hine,Lynn Ward,Cat Pause,Karen Swabey,Karen Yates,Rosanne Burton Smith,2015-09-28 *Lifespan Development* Third Australasian edition explores human physical cognitive and social development within an Australian and New Zealand context Building on the successful first and second editions the resource s comprehensive theory coverage includes the latest local and international research in this ever evolving field and is perfectly complemented by numerous physical and mental health applications within local psychological allied health and educational settings This edition includes enhanced coverage of developmental theories and increased integrated coverage of cross cultural and Indigenous issues unique to the multicultural societies of Australia and New Zealand It is an ideal resource offering for undergraduate students in both countries in order to enhance understanding of human development from conception through to the end of life **Annual Index** ,1928 **Outdoor Life** ,1963 *Directions* ,1979 **Who's who in America** Harriet L. Tiger,1995

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