

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.) | |

Life Science Scope 2014 Limpopo

JS Bruner



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Policy and Practice Challenges for Equality in Education Neimann, Theresa, Felix, Jonathan J., Shliakhovchuk, Elena, Hindman, Lynne L., 2021-09-10 Well educated populations are important aspects of any contemporary society as education increases national and global development and the positive expansion of communities to participate actively in civil matters also increases Educational equality is based on the principles of administrative competence and fairness of access and distribution of resources opportunities and treatment which ensures success for every person Ensuring equal access to quality education requires addressing a wide range of persistent inequalities in society and includes a stronger focus on how different forms of inequalities intersect to produce unequal opportunities or outcomes that affect marginalized and vulnerable groups *Policy and Practice Challenges for Equality in Education* takes a multifaceted look at issues of equality and inequality in education as related to policy practice resource access and distribution As such this book explores the potential practices in education that serve to mitigate and transform unproductive practices which have left societies scarred by social and educational inequalities The chapters provide a critical analysis of the manifestations of inequalities in various educational contexts and discerns how broader social inequalities are informed by education related matters This book is ideal for sociologists administrators instructors policymakers data scientists community leaders practitioners stakeholders researchers academicians and students interested in educational equality and the unique challenges being faced worldwide

Education in a New South Africa Robert J. Balfour, 2015-09-24 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education **Mobile Heritage** Ana-Maria Herman, 2025-04-22 *Mobile Heritage* explores how diverse digital technologies such as apps GPS games social platforms NFTs drones AR MR and AI among others have allowed for new types of mobilities and introduced a novel set of practices interventions and politics for heritage collections archives exhibitions entertainment conservation management commerce education restitution activism and regulation The volume is not a how to book Instead it critically examines this emerging landscape and its unsettling of existing relations between heritage and knowledge value identity power sense of place community nationhood and ownership thus outlining a new set of issues implications and consequences The volume brings together case studies from around the world and each chapter considers mobility matters associated with tangible and intangible cultural heritage relating to art film music games manuscripts traditional knowledge architecture cities and more and the involvement of a variety of actors in digital heritage practices and interventions such as artists activists communities museums non profit organisations educational institutions enterprises and governmental agencies The contributors are scholars and practitioners drawing on various disciplines and fields of study including archaeology museum studies media studies computing art history cultural studies anthropology gender studies mobility studies and law *Mobile Heritage* positions mobility as a critical tool for understanding the changing digital heritage

landscape making this volume an essential read for students academics and practitioners engaged in this area Genetics, Genomics and -Omics of Thermophiles, 2nd Edition Kian Mau Goh,Kok-Gan Chan,Rajesh Kumar Sani,Edgardo Rubén Donati,Anna-Louise Reysenbach,2019-06-13 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

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