



# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

## **SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS**

**MATHEMATICAL LITERACY P1**

**2021**

**MARKS: 150**

**TIME: 3 hours**

**This question paper consists of 15 pages,  
1 answer sheet and an addendum with 3 annexures.**

# Mathematical Literacy Paper 2013

**Lala Septem Riza, Eka Cahya  
Prima, Toni Hadibarata, Peter John  
Aubusson**

### **Mathematical Literacy Paper 2013:**

**Assessing Mathematical Literacy** Kaye Stacey, Ross Turner, 2014-11-03 This book describes the design development delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment PISA First the origins of PISA's concept of mathematical literacy are discussed highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world and clarifying PISA's position within this part of the mathematics education territory The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas The underlying mathematical competencies on which mathematical literacy so strongly depends are described along with a scheme to use them in item creation and analysis The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed Different kinds of items for both paper based and computer based PISA surveys are exemplified by many publicly released items along with details of scoring The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained The book concludes by surveying international impact It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices curriculum arrangements assessment practices and the educational debate more generally in fourteen countries

**Teaching Learners with Visual Impairment** Maximus M. Sefotho, Ronél Ferreira, 2020-12-31 This book Teaching Learners with Visual Impairment focuses on holistic support to learners with visual impairment in and beyond the classroom and school context Special attention is given to classroom practice learning support curriculum differentiation and assessment practices to mention but a few areas of focus covered in the book In this manner this book makes a significant contribution to the existing body of knowledge on the implementation of inclusive education policy with learners affected by visual impairment

**MSCEIS 2019** Lala Septem Riza, Eka Cahya Prima, Toni Hadibarata, Peter John Aubusson, 2020-07-30 The 7th Mathematics Science and Computer Science Education International Seminar MSCEIS was held by the Faculty of Mathematics and Natural Science Education Universitas Pendidikan Indonesia UPI and the collaboration with 12 University associated in Asosiasi MIPA LPTK Indonesia AMLI consisting of Universitas Negeri Semarang UNNES Universitas Pendidikan Indonesia UPI Universitas Negeri Yogyakarta UNY Universitas Negeri Malang UM Universitas Negeri Jakarta UNJ Universitas Negeri Medan UNIMED Universitas Negeri Padang UNP Universitas Negeri Manado UNIMA Universitas Negeri Makassar UNM Universitas Pendidikan Ganesha UNDHKSA Universitas Negeri Gorontalo UNG and Universitas Negeri Surabaya UNESA In this year MSCEIS 2019 takes the following theme Mathematics Science and Computer Science Education for Addressing Challenges and Implementations of Revolution Industry 4.0 held on October 12 2019 in Bandung West Java Indonesia

**Research in Mathematics Education in Australasia 2012-2015** Katie Makar, Shelley Dole, Jana Visnovska, Merrilyn Goos, Anne Bennison, Kym Fry, 2016-06-02 With the ninth edition of the four yearly review of mathematics education research in Australasia the Mathematics Education

Research Group of Australasia MERGA discusses the Australasian research in mathematics education in the four years from 2012-2015. This review aims to critically promote quality research and focus on the building of research capacity in Australasia.

OECD Skills Studies The Assessment Frameworks for Cycle 2 of the Programme for the International Assessment of Adult Competencies OECD, 2021-04-30. The OECD's Programme for the International Assessment of Adult Competencies PIAAC represents a comprehensive international comparative assessment of the information processing skills of adults vital for the full participation in social and economic life in the 21st century. PIAAC is now in its second cycle and continues a series of international assessments of adult skills that began in the mid 1990s with the International Adult Literacy Survey IALS.

Mathematical Modelling Education and Sense-making Gloria Ann Stillman, Gabriele Kaiser, Christine Erna Lampen, 2020-05-14. This volume documents on-going research and theorising in the sub-field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in people's everyday lives as well as sophisticated new problems for society at large. Mathematical modelling and real-world applications are considered as having potential for cultivating sense-making in classroom settings. This book focuses on the educational perspective researching the complexities encountered in effective teaching and learning of real-world modelling and applications for sense-making is only beginning. All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA, the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace.

**School Mathematics Curricula** Catherine P. Vistro-Yu, Tin Lam Toh, 2019-04-26. This book sheds light on school mathematics curricula in Asian countries including their design and the recent reforms that have been initiated. By discussing and analyzing various problematic aspects of curriculum development and implementation in a number of East and South Asian countries and offering insights into these countries' unique approaches to supplementing school mathematics curricula, it contributes to shaping effective policies for implementation, assessment and monitoring of curricula. The book covers a wide range of issues: curriculum design, localization of curricula, directions of curricular reforms, mathematics textbooks, assessment within the curriculum and teachers' professional development, which are of interest to a wide international audience.

**New Advances in Information Systems and Technologies** Álvaro Rocha, Ana Maria Correia, Hojjat Adeli, Luis Paulo Reis, Marcelo Mendonça Teixeira, 2016-03-15. This book contains a selection of articles from The 2016 World Conference on Information Systems and Technologies WorldCIST 16 held between the 22nd and 24th of March at Recife, Pernambuco, Brazil. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research together with their technological development and applications. The main topics covered are Information and Knowledge Management, Organizational Models and Information Systems, Software

and Systems Modeling Software Systems Architectures Applications and Tools Multimedia Systems and Applications Computer Networks Mobility and Pervasive Systems Intelligent and Decision Support Systems Big Data Analytics and Applications Human Computer Interaction Health Informatics Information Technologies in Education Information Technologies in Radiocommunications

**The Australian Government Muscling in on School Education** Grant Rodwell, 2020-05-07 Despite the Australian Constitution implying school education to be a state responsibility the Commonwealth has increasingly interfered with state school education The Australian Government Muscling in on School Education therefore offers a historical account of this government involvement in Australian education from federation to the present day providing a much needed fully updated and relevant overview the topic Arguing that education has become an arena for competing political forces this book examines the powerful influence of the Commonwealth over education and the political motives behind it exploring how politics influences aspects of the curriculum teaching standards assessment and reporting funding teacher selection and policy more broadly Ultimately questioning whether this influence is in the interests of the members of the community who depend on education the book holds government engagement in education to account Taking the major epochs of federalism as an organizing framework the book s chapters include explorations of The efficiency dynamic and the progressive years 1919 39 Postwar imperatives and the Menzies years 1949 72 Coordinative federalism and treading softly the Whitlam years 1972 5 and Fraser years 1975 83 Corporate federalism the Hawke Keating years 1983 96 Supply side federalism and globalization the Howard years 1996 2007 National control and the Rudd Gillard Abbott Turnbull and Morrison years 2007 15 A thorough and significant examination of the historical engagement of the Australian government in education this book is essential reading for student teachers and postgraduate students in education studies and politics

Japan's Official Development Assistance White Paper, 2013

**Interrogating Whiteness and Relinquishing Power** Nicole M. Joseph, Chayla Haynes, Floyd Cobb, 2016 Interrogating Whiteness and Relinquishing Power White Faculty s Commitment to Racial Consciousness in STEM Classrooms is a collection of narratives that will transform the teaching of any faculty member who teaches in the STEM system The book links issues of inclusion to teacher excellence at all grade levels by illuminating the critical influence that racial consciousness has on the behaviors of White faculty in the classroom It functions as an analytical tool scaffolding exemplary examples to inspire readers to engage in the complex and difficult work of assessing their own racial consciousness and teacher effectiveness White pre service teachers in STEM education rarely see the importance of the link between race and the teaching and learning of mathematics in part because the White faculty who are teaching these subjects rarely engage in the study of racial projects in STEM From this perspective the authors of this book contend that the classroom is a racialized environment that if not addressed can reproduce racial structures and hierarchies in cyclical ways

**Annual Report** Mpumalanga (South Africa). Department of Education, 2014

**Illinois Reading Council Journal**, 2014

**Journal for Research in Mathematics Education**, 2014

**Educational Testing and Measurement** Tom Kubiszyn, Gary D. Borich, 2016-01-11 Educational Testing and Measurement Classroom Application and Practice 11th Edition by Tom Kubiszyn and Gary D Borich serves as an up to date practical reader friendly resource that will help readers navigate today s seemingly ever changing and complex world of educational testing assessment and measurement The 11th edition presents a balanced perspective of educational testing and assessment informed by developments and the ever increasing research base **Library & Information Science Abstracts** ,1987 **Journal of Developmental Education** ,2015 *Annual Report* Aims Community College,2012

Developing Person Through Childhood and Adolescence Kathleen Stassen Berger,2015-04-15 Exceptional in its currency global in its cultural reach Kathleen Berger s portrait of the scientific investigation of childhood and adolescent development helps bring an evolving field into the evolving classroom Guided by Berger s clear inviting authorial voice and page after page of fascinating examples from cultures around the world students see how classic and current research and the lives of real people shape the field s core theories and concepts In addition to Kathleen Berger s exhaustive updating of the research this edition is notable for its thorough integration of assessment throughout learning objectives assessments after each section expanded end of chapter quizzes all aligned with national standards **California Agriculture** ,2022-10

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flower orientation the flowers point upward or spread or curve outward flower petal color pink to red white flower petal length 3 4 5 mm flower shape the flower has an urn shaped corolla constricted at the opening the flower is bell shaped

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general information bulb solitary or clustered applanate globose to cylindrical ovoid tunic purple red brown red pale brown red or yellow to pale yellow papery to thinly leathery entire leaves shorter than scape 0 5 2 cm wide terete fistulose

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floral formula and floral diagram google classroom a flower has the following characteristics zygomorphic bracteate gamosepalous calyx with valvate aestivation polypetalous corolla with vexillary aestivation diadelphous stamens basal placentation which of the following floral diagrams represents this flower

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stem underground bulb leaf a cluster of radical leaves emerges from the underground bulb cylindrical and fleshy having sheathy leaf bases with parallel venation inflorescence scapigerous i e the inflorescence axis peduncle arising from the

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the floral formula of allium cepa onion of the liliaceae family is as follows here the symbols represent systematic position of liliaceae kingdom plantae subkingdom tracheobionta super division spermatophyta division magnoliophyta class liliopsida subclass liliidae order liliales family liliaceae features of liliaceae family

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the flowers of allium are described as bowl shaped flowers in morphological terms with hidden nectarines generally they are in under part of the ovary onion flowers are a good source of floral nectar and pollen the nectar produced from the nectarines was found to be collected in three cups between

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step 1 ans the f view the full answer final answer previous question next question transcribed image text alliaceae 6 what is the floral formula for allium cepa using the floral diagram in figure 2 additionally describe the flower in detail based on the floral diagram and formula a 0 figure 2 floral diagram of allium cepa figure 2

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onion allium cepa l bulbs are commonly used as food or as a herb showing pharmacological activities connected to natural beneficial compounds such as thiosulfinates saponins polyphenols and flavonoids the free amino acids arginine

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abstract onion allium cepa l is found in various regions of europe north america asia and africa it is one of the classic examples of allium species used not only for culinary

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allium cepa is an evergreen bulb growing to 0 6 m 2ft see above for usda hardiness it is hardy to uk zone 5 and is not frost tender it is in flower from june to july the species is hermaphrodite has both male and female organs and is pollinated by bees insects suitable for light sandy and medium loamy soils and prefers well drained soil

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aug 31 2020 botanical description of allium cepa 1 habit perennial herb with bulb 2 root fibrous adventitious root system 3 stem underground bulb 4 leaf a cluster of radical leaves emerges from the underground bulb cylindrical and fleshy having sheathy leaf

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allium is a genus of monocotyledonous flowering plants with hundreds of species including the cultivated onion garlic scallion shallot leek and chives the generic name allium is the latin word for garlic and the type species for the genus is

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