

2018 elective maths wassce questions

2018 Elective Maths WASSCE Questions: A Comprehensive Analysis

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Introduction: Deconstructing the 2018 Elective Maths WASSCE Questions

The 2018 elective maths WASSCE questions remain a valuable resource for students preparing for the West African Senior School Certificate Examination. This comprehensive analysis delves into the structure, content, and difficulty level of the 2018 elective maths WASSCE questions, offering insights to both students and educators. Understanding these questions is crucial for effective exam preparation and improving performance. This article will provide a detailed examination of the 2018 elective maths WASSCE questions, focusing on key themes, challenging topics, and effective revision strategies.

Analysis of 2018 Elective Maths WASSCE Questions: Section by Section

The 2018 elective maths WASSCE questions were structured across various sections, each testing different aspects of mathematical understanding and application. A thorough analysis reveals recurring themes and problem-solving approaches.

Section A: Objective Questions: This section typically included multiple-choice questions testing

foundational knowledge in algebra, calculus, trigonometry, and statistics. The 2018 elective maths WASSCE questions in this section emphasized quick recall and the ability to apply basic formulas and concepts. A successful approach required a solid understanding of fundamental mathematical principles. Many students found that thoroughly reviewing the core concepts from the syllabus was essential for success in this section of the 2018 elective maths WASSCE questions.

Section B: Structured Questions: This section comprised more complex problems requiring a step-by-step approach to problem-solving. The 2018 elective maths WASSCE questions in Section B often involved a combination of different mathematical concepts, requiring students to demonstrate their ability to connect various topics and apply their knowledge in unfamiliar contexts. Analyzing past performance data shows that students often struggle with these questions because they lack a systematic approach to problem-solving and struggle with application of theoretical knowledge to practical problems.

Section C: Essay Questions: This section featured lengthy and more challenging problems, demanding in-depth understanding and analytical skills. The 2018 elective maths WASSCE questions in this section assessed a student's ability to construct coherent arguments, use mathematical notation accurately, and show a thorough understanding of the underlying principles. Successfully navigating these questions required not only knowledge but also strategic planning and meticulous execution. Weaknesses in these areas were often reflected in the results from the 2018 elective maths WASSCE questions.

Key Themes and Challenging Topics in the 2018 Elective Maths WASSCE Questions

A recurring theme in the 2018 elective maths WASSCE questions was the emphasis on problem-solving skills. Students were tested on their ability to apply their theoretical knowledge to various contexts. Several topics proved particularly challenging for many candidates. These included:

Calculus: Questions involving differentiation, integration, and applications of calculus frequently appeared in the 2018 elective maths WASSCE questions. Students often struggled with understanding the underlying concepts and applying them correctly.

Vectors: Vector operations and applications were another area of difficulty. The 2018 elective maths WASSCE questions related to vectors often involved geometrical interpretations and problem-solving in three dimensions, which proved demanding for many students.

Statistics: Probability distributions and hypothesis testing consistently emerged as challenging topics in the 2018 elective maths WASSCE questions.

Trigonometry: Questions involving trigonometric identities, equations, and applications were also challenging.

Effective Strategies for Tackling 2018 Elective Maths WASSCE Questions

Success in the elective maths WASSCE examination hinges on strategic preparation. Reviewing the 2018 elective maths WASSCE questions is an essential step. Here are some key strategies:

Thorough understanding of the syllabus: Familiarize yourself with the entire syllabus to identify all the topics covered.

Systematic practice: Regular practice with past papers, including the 2018 elective maths WASSCE questions, is vital.

Focus on problem-solving: Develop a structured approach to problem-solving, breaking down complex problems into smaller, manageable steps.

Seek clarification: Don't hesitate to seek assistance from teachers or tutors on challenging topics.

Time management: Practice working under timed conditions to improve speed and efficiency.

Conclusion

The 2018 elective maths WASSCE questions provide invaluable insights into the examination's format, content, and difficulty level. By carefully analyzing these questions and employing effective revision strategies, students can significantly improve their chances of success. Remember, consistent effort, thorough understanding, and strategic practice are key to mastering the elective maths WASSCE.

FAQs

1. Where can I find the 2018 Elective Maths WASSCE questions and answers? You can find them on the WAEC website or reputable educational resource websites that offer past papers.

1. What is the marking scheme for the 2018 elective maths WASSCE questions? The marking scheme would generally be available from WAEC or through approved educational resources.

1. How difficult were the 2018 elective maths WASSCE questions compared to previous years? The difficulty level varies from year to year, but analyzing the 2018 paper alongside previous ones can provide a comparative understanding.

1. Which topics were most frequently tested in the 2018 elective maths WASSCE questions? Calculus, Vectors, Statistics, and Trigonometry were prominent topics.

1. Are there any sample solutions available for the 2018 elective maths WASSCE questions? Yes, many educational websites and textbooks provide solutions and walkthroughs.

1. How can I improve my performance in the calculus section of the WASSCE elective maths? Focused practice on differentiation, integration, and applications of calculus is crucial.

1. What resources are best for preparing for the vector section of the 2018 elective maths WASSCE questions? Textbooks focusing on vector algebra and geometry would be beneficial.

1. How can I improve my understanding of statistics for the WASSCE elective maths? Practice with statistical problems and review the fundamental concepts of probability distributions and hypothesis testing.

1. What strategies are best for managing time during the WASSCE elective maths exam? Practice past papers under timed conditions to improve time management skills.

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the results of a commission sponsored by the National Academy of Education, *Preparing Teachers for a Changing World* recommends the creation of an informed teacher education curriculum with the common elements that represent state-of-the-art standards for the profession. Written for teacher educators in both traditional and alternative programs, university and school system leaders, teachers, staff development professionals, researchers, and educational policymakers, the book addresses the key foundational knowledge for teaching and discusses how to implement that knowledge within the classroom. *Preparing Teachers for a Changing World* recommends that, in addition to strong subject matter knowledge, all new teachers have a basic understanding of how people learn and develop, as well as how children acquire and use language, which is the currency of education. In addition, the book suggests that teaching professionals must be able to apply that knowledge in developing curriculum that attends to students' needs, the demands of the content, and the social purposes of education: in teaching specific subject matter to diverse students, in managing the classroom, assessing student performance, and using technology in the classroom.

2018 elective maths wassce questions: *Vocationalisation of Secondary Education Revisited* Jon Lauglo, R. Maclean, 2006-03-30 The book is a cutting-edge contribution to the debate which has occurred for some time on the pros and cons of secondary education becoming more closely and explicitly related to preparing young people for the world of work. The book provides concrete examples of the vocationalisation of secondary education, with particular reference to the situation in Africa. The target audience for the book includes policy-makers, practitioners, administrators, education planners, researchers, teachers and teacher educators with a concern about the relationship between secondary education and education for the world of work (with particular reference to technical and vocational education and training - TVET.) The book appears in the Springer book series on 'Technical and Vocational Education and Training: Issues, Concerns and Prospects' and compliments the 'International Handbook of Technical and Vocational Education and Training' and other publications in the 'International Library of TVET' all of which are publications of the 'UNESCO-UNEVOC International Centre for TVET' in Bonn, Germany

2018 elective maths wassce questions: *Propagation and Reflection of Shock Waves* Fedor Vasil'evich Shugaev, L. S. Shtemenko, 1998 This volume deals with the propagation of three-dimensional shock waves and their reflection from curved walls. It is divided into two parts. The first part presents a ray method. This is based on the expansion of fluid properties in power series at an arbitrary point on the shock front. Continuous fractions are used. Results for shock propagation in non-uniform fluids are given. The second part discusses the shock reflection from a concave body. The important shock-focusing problem is included. The work is supported by both numerical and experimental results. Many interesting features, such as formation of a jet, vortices and the appearance of disturbances on the shock front, are discussed. Besides shock waves in gases, the distinctive features of shock propagation through a weakly ionized plasma are considered.

2018 elective maths wassce questions: *France-Afrique* Jean de Grandsaigne, 1979

2018 elective maths wassce questions: *World Yearbook of Education 1967* George Z. F. Bereday, Joseph A. Lauwerys, Mark Blaug, 2013-08-06 First published in 2005. By focusing on planning this Year Book follows a tradition well established in Comparative Education. This year book hopes that by drawing together into one volume contributions from many distinguished specialists, it hopes to help in the necessary organization and systematization of a field which is full of promise.

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2018 elective maths wassce questions: *Teachers in Anglophone Africa* Aidan G Mulkeen, 2009-12-02 Teachers are at the heart of good education, and good teacher policies are essential to

ensure adequate supply, deployment and management of teachers. Enrollment in primary education has grown rapidly in Sub-Saharan Africa. Yet teacher policy in the region has often evolved without clear planning; in the absence of an overall strategy, countries have experienced serious problems with teacher supply and deployment, as well as with the quality of teaching. Based on case studies of education systems and practices in eight English-speaking African countries, 'Teachers in Anglophone Africa: Issues in Teacher Supply, Training, and Management' closely examines issues of teacher supply, deployment, management and finance. The book suggests that these issues are closely interrelated. Low numbers of qualified teaching graduates may result in teacher shortages; these shortages may make it difficult to deploy teachers effectively. Problems with teacher deployment may result in inefficient utilization of the teachers available, and those teachers' effectiveness may be further reduced by weak teacher management and support systems. The book identifies policies and practices that are working on the ground, noting their potential pitfalls and pointing out that policies designed to address one problem may make another problem worse. 'Teachers in Anglophone Africa: Issues in Teacher Supply, Training, and Management' offers a useful synthesis of the issues and draws together a series of promising practices, which can serve as positive suggestions for countries seeking to improve their teacher policies. The book should be of great assistance to education ministries and their development partners throughout the region as they address the challenges of the next phases of expansion in education.

2018 elective maths wassce questions: *Fundamentals of Radio Astronomy* Jonathan M. Marr, Ronald L. Snell, Stanley E. Kurtz, 2015-11-30 As evidenced by five Nobel Prizes in physics, radio astronomy in its 80-year history has contributed greatly to our understanding of the universe. Yet for too long, there has been no suitable textbook on radio astronomy for undergraduate students. *Fundamentals of Radio Astronomy: Observational Methods* is the first undergraduate-level textbook exclus

2018 elective maths wassce questions: *The Last Good Man* Patience Swift, 2008 A man has lived on his own beside a wild, unforgiving coastline for many years. His companions are the birds, the land and the sea. From a choice made long ago, he keeps himself separate from the world of people and he gains a fierce pleasure from his environment. His solitude is broken by his discovery, one early morning on the flat sands of low tide, of a child washed up on the beach, but still alive. This is a novel of redemption, the story of a man experiencing the world as though for the first time.

2018 elective maths wassce questions: *The History of Education in Ghana* C.K. Graham, 2013-01-11 Published in the year 1971, *The History of Education in Ghana* is a valuable contribution to the field of History.

2018 elective maths wassce questions: *Model-Centered Learning* Lingguo Bu, Robert Schoen, 2012-01-01 *Model-Centered Learning: Pathways to Mathematical Understanding Using GeoGebra* is the first book to report on the international use of GeoGebra and its growing impact on mathematics teaching and learning. Supported by new developments in model-centered learning and instruction, the chapters in this book move beyond the traditional views of mathematics and mathematics teaching, providing theoretical perspectives and examples of practice for enhancing students' mathematical understanding through mathematical and didactical modeling. Designed specifically for teaching mathematics, GeoGebra integrates dynamic multiple representations in a conceptually rich learning environment that supports the exploration, construction, and evaluation of mathematical models and simulations. The open source nature of GeoGebra has led to a growing international community of mathematicians, teacher educators, and classroom teachers who seek to tackle the challenges and complexity of mathematics education through a grassroots initiative using instructional innovations. The chapters cover six themes: 1) the history, philosophy, and theory behind GeoGebra, 2) dynamic models and simulations, 3) problem solving and attitude change, 4) GeoGebra as a cognitive and didactical tool, 5) curricular challenges and initiatives, 6) equity and sustainability in technology use. This book should be of interest to mathematics educators, mathematicians, and graduate students in STEM education and instructional technologies.

2018 elective maths wassce questions: *Developing Thinking in Algebra* John Mason, Alan

Graham, Sue Johnston-Wilder, 2005-04-23 'Mason, Graham, and Johnston-Wilder have admirably succeeded in casting most of school algebra in terms of generalisation activity? not just the typical numerical and geometric pattern-based work, but also solving quadratics and simultaneous equations, graphing equations, and factoring. The authors raise our awareness of the scope of generalization and of the power of using this as a lens not just for algebra but for all of mathematics!' - Professor Carolyn Kieran, Departement de Mathematiques, Universite du Quebec a Montreal Algebra has always been a watershed for pupils learning mathematics. This book will enable you to think about yourself as a learner of algebra in a new way, and thus to teach algebra more successfully, overcoming difficulties and building upon skills that all learners have. This book is based on teaching principles developed by the team at The Open University's Centre for Mathematics Education which has a 20-year track record of innovative approaches to teaching and learning algebra. Written for teachers working with pupils aged 7-16, it includes numerous tasks ready for adaption for your teaching and discusses principles that teachers have found useful in preparing and conducting lessons. This is a 'must have' resource for all teachers of mathematics, primary or secondary, and their support staff. Anyone who wishes to create an understanding and enthusiasm for algebra, based upon firm research and effective practice, will enjoy this book. This book is the course reader for The Open University Course ME625 Developing Algebraic Thinking

2018 elective maths wassce questions: Interactive Multimedia in Education and Training Sanjaya Mishra, Ramesh C. Sharma, 2005-01-01 This text emerges out of the need to share information and knowledge on the research and practices of using multimedia in various educational settings. It discusses issues relating to planning, designing and development of interactive multimedia, offering research data.

2018 elective maths wassce questions: Curriculum Overload A Way Forward OECD, 2020-11-25 Schools are constantly under pressure to keep up with the pace of changes in society. In parallel, societal demands for what schools should teach are also constantly changing; often driven by political agendas, ideologies, or parental pressures, to add global competency, digital literacy, data literacy, environmental literacy, media literacy, social-emotional skills, etc. This "curriculum expansion" puts pressure on policy makers and schools to add new contents to already crowded curriculum.

2018 elective maths wassce questions: Mathematics for Senior Secondary Schools Mathematical Association Staff, Murray F. Macrae, Mary Nathan, Mathematical Association of Ghana, 2008-11-12 Mathematics for Senior Secondary Schools covers the Core Mathematics syllabus in three textbooks, one for each of the three Senior Secondary school years.

2018 elective maths wassce questions: Women and Mathematics Lynn H. Fox, Elizabeth Fennema, Julia Ann Sherman, 1977

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technology is important, and assessing technology integration as well as its effectiveness. The Enhanced Pearson eText features embedded videos. Improve mastery and retention with the Enhanced Pearson eText* The Enhanced Pearson eText provides a rich, interactive learning environment designed to improve student mastery of content. The Enhanced Pearson eText is: Engaging. The new interactive, multimedia learning features were developed by the authors and other subject-matter experts to deepen and enrich the learning experience. Convenient. Enjoy instant online access from your computer or download the Pearson eText App to read on or offline on your iPad® and Android® tablet.* Affordable. The Enhanced Pearson eText may be purchased stand-alone or with a loose-leaf version of the text for 40-65% less than a print bound book. * The Enhanced eText features are only available in the Pearson eText format. They are not available in third-party eTexts or downloads. *The Pearson eText App is available on Google Play and in the App Store. It requires Android OS 3.1-4, a 7" or 10" tablet, or iPad iOS 5.0 or later.

2018 elective maths wassce questions: THE EARLY GRADE READING ASSESSMENT Amber K. Gove, Anna Wetterberg, 2011-09-28 The Early Grade Reading Assessment (EGRA) measures students' progress towards reading. EGRA gauges early literacy skills through a 15-minute individual oral assessment of five fundamental reading skills. RTI worked with education experts to develop the EGRA in 2006, and it has been piloted and implemented in more than 40 countries. This volume aims to take stock of the substantial amount of information and experience generated through the use of EGRA, and to share this knowledge with practitioners, policymakers, and international donors. Chapters cover not only particular applications of the instrument but also put EGRA in the context of broader issues and developments in literacy and education.

2018 elective maths wassce questions: Barron's How to Prepare for the Preliminary Scholastic Aptitude Test and the National Merit Scholarship Qualifying Test Samuel C. Brownstein, Mitchel Weiner, 1971 A guide to building vocabulary, improving reading comprehension, increasing other verbal skills, and reviewing basic mathematics. Sample tests are included.

2018 elective maths wassce questions: *Understanding and Reducing College Student Departure* John M. Braxton, Amy S. Hirschy, Shederick A. McClendon, 2011-10-07 Student departure is a long-standing problem to colleges and universities. Approximately 45 percent of students enrolled in two-year colleges depart during their first year, and approximately one out of four students departs from a four-year college or university. The authors advance a serious revision of Tinto's popular interactionalist theory to account for student departure, and they postulate a theory of student departure in commuter colleges and universities. This volume delves into the literature to describe exemplary campus-based programs designed to reduce student departure. It emphasizes the importance of addressing student departure through a multidisciplinary approach, engaging the whole campus. It proposes new models for nonresidential students and students from diverse backgrounds, and suggests directions for further research. Academic and student affairs administrators seeking research-based approaches to understanding and reducing student departure will profit from reading this volume. Scholars of the college student experience will also find it valuable in defining new thrusts in research on the student departure process.

2018 elective maths wassce questions: *Learners & Pedagogy* Jenny Leach, Bob Moon, 2000-02-18 This textbook looks at the relationship between views of learning, learners, knowledge and pedagogy. Worldwide, education is being subjected to a succession of policy initiatives and political interventions. Questions of what should be taught, and how, are subjects of constant debate, seldom based on research findings or theoretical principles. The articles in this volume have been chosen to show how theories can provide frameworks for analysing pedagogy and to create a dialogue about new possibilities for advancing practice. *Learners and Pedagogy* is a Course Reader for The Open University course E836 Learning Curriculum and Assessment.

2018 elective maths wassce questions: *Exam Preparatory Manual for Undergraduates: Medicine* Archith Bloor, Ramadas Nayak, 2018-09-30 The new edition of this revision manual provides students with the latest advances and information in medicine. Divided into 25 chapters, the text covers the diagnosis and management of diseases and disorders in all medical

subspecialties. The second edition has been fully revised and features new topics including recent advances, new drugs, geriatrics, and immunology. Disease aetiology, diagnostic procedures, radiological investigations and basics of ECG readings are discussed in depth. Important clinical examination-oriented questions are included in each section, with key points emphasised to assist revision. The comprehensive text is highly illustrated with clinical photographs and diagrams. Important management techniques are highlighted in coloured tables. Key points Comprehensive revision manual covering all medical subspecialties for undergraduates Fully revised, second edition featuring many new topics Includes clinical examination-oriented questions to assist revision Previous edition (9789386056610) published in 2016

2018 elective maths wassce questions: Teaching and Learning of mathematics Noraini Idris, 2005

2018 elective maths wassce questions: Sign Bilingualism Carolina Plaza Pust, Esperanza Morales López, 2008 This volume provides a unique cross-disciplinary perspective on the external ecological and internal psycholinguistic factors that determine sign bilingualism, its development and maintenance at the individual and societal levels. Multiple aspects concerning the dynamics of contact situations involving a signed and a spoken or a written language are covered in detail, i.e. the development of the languages in bilingual deaf children, cross-modal contact phenomena in the productions of child and adult signers, sign bilingual education concepts and practices in diverse social contexts, deaf educational discourse, sign language planning and interpretation. This state-of-the-art collection is enhanced by a final chapter providing a critical appraisal of the major issues emerging from the individual studies in the light of current assumptions in the broader field of contact linguistics. Given the interdependence of research, policy and practice, the insights gathered in the studies presented are not only of scientific interest, but also bear important implications concerning the perception, understanding and promotion of bilingualism in deaf individuals whose language acquisition and use have been ignored for a long time at the socio-political and scientific levels.

2018 elective maths wassce questions: Factors Affecting Academic Performance Julio Antonio González-Pienda, 2017 Nowadays, society is constantly changing, and new ways of life are being developed by due to nonstop technological advancements. This generates changes in family, schools, the media, etc. New technologies are creating virtual environments to manage learning and academic achievement, and this is a new challenge to approach formal and informal education. In the last few decades, teachers, families, and educational administrators had very well-defined fields of action and roles to play. Now, these roles are disfigured, and influences from all agents are arguable and more difficult to face. At this current stage, problems sometimes appear that require different forms of intervention. Some of the problems are violence towards people; child abuse; drug abuse at increasingly early ages; integration problems due to immigration; dropping out of school; and typical problems related to student development, personality, disabilities, social and psychical maladjustment, teenagers socioaffective relationships, etc. Research on school success and failure has a long history, but there is still no agreement concerning the prevalence of these variables to explain academic achievement, the relationship between those variables, and which other variables modulate their level of impact. For many years, cognitive psychology has emphasized cognitive function as the most relevant for learning in school. However, recent studies highlight the importance of motivational and affective functions in building consistent models to explain learning and academic achievement. This change of perspective, from the classical cognitive model to a self-regulated learning model, has implied a new orientation in the research of the factors involved in school success and failure. Self-regulated learning models try to integrate students cognitive, socioaffective, and behavioral aspects. These models describe the different components involved in successful learning at all school stages, explaining reciprocal relationships between those components and directly relating learning to personal achievement, motivation, volition, and emotions. With this new paradigm, students not only contribute to strengthening their intelligence, but also their motivational and emotional qualities, all related to achieving personal balance. This

book presents studies, ideas, and recommendations to shed light on the complex educational world. Education has limits and difficulties, but it is also the only instrument that can develop students potential into personal success.

2018 elective maths wassce questions: *Waves and Oscillations* R. N. Chaudhuri, 2001 This Book Explains The Various Dimensions Of Waves And Oscillations In A Simple And Systematic Manner. It Is An Unique Attempt At Presenting A Self-Contained Account Of The Subject With Step-By-Step Solutions Of A Large Number Of Problems Of Different Types. The Book Will Be Of Great Help Not Only To Undergraduate Students, But Also To Those Preparing For Various Competitive Examinations.

2018 elective maths wassce questions: *Java Programming* Ralph Bravaco, Shai Simonson, 2009-02-01 Java Programming, From The Ground Up, with its flexible organization, teaches Java in a way that is refreshing, fun, interesting and still has all the appropriate programming pieces for students to learn. The motivation behind this writing is to bring a logical, readable, entertaining approach to keep your students involved. Each chapter has a Bigger Picture section at the end of the chapter to provide a variety of interesting related topics in computer science. The writing style is conversational and not overly technical so it addresses programming concepts appropriately. Because of the flexible organization of the text, it can be used for a one or two semester introductory Java programming class, as well as using Java as a second language. The text contains a large variety of carefully designed exercises that are more effective than the competition.

2018 elective maths wassce questions: *An Introduction to the Economics of Education* Mark Blaug, 1976

2018 elective maths wassce questions: *Quality School* William Glasser, M.D., 2010-11-16 This should be required reading by every school administrator, every teacher, every board member and all university faculty involved in the training of teachers. There is no doubt that we need to squeeze all blame, all coercion and all criticism out of any people-related business. Not until we realize that schools are in a people business will we ever be able to make meaningful changes. --Dr. Albert Mamary, former superintendent of schools, Johnson City, New York

2018 elective maths wassce questions: *Contemporary Issues in Mathematics Education* Estela A. Gavosto, Steven G. Krantz, William McCallum, 1999-06-13 This volume presents a serious discussion of educational issues, with representations of opposing ideas.

2018 elective maths wassce questions: *What a Fright! - And Other Stories* Angus MacIver, 1998-01-01 First Aid in English Reader A offers a diverse collection of fiction, non-fiction and poetry from many different cultures. Texts are drawn from a range of different genres with attractive illustrations to help engage the reader's attention. Arranged thematically, the texts are interspersed with comprehension questions and exercises designed to contribute to the reader's own writing skills. Suitable for use in the whole class or by individuals, pairs and groups.

2018 elective maths wassce questions: *Enhancing Teaching and Learning through Assessment* Steve Frankland, 2007-10-17 Assessment is the daily life of a teacher; designing plans, setting questions, giving feedback and grading are all activities that teachers undertake on a regular basis. This book provides a practical guide on the effective use of assessment. It includes the use of assessment tools and pedagogical design that help students deepen their learning. Major issues on assessment and some excellent examples are presented as a useful resource to university teachers in enhancing teaching and students' learning.

2018 elective maths wassce questions: *The Nature and Role of Algebra in the K-14 Curriculum* Center for Science, Mathematics, and Engineering Education, National Council of Teachers of Mathematics and Mathematical Sciences Education Board, National Research Council, 1998-10-07 With the 1989 release of Everybody Counts by the Mathematical Sciences Education Board (MSEB) of the National Research Council and the Curriculum and Evaluation Standards for School Mathematics by the National Council of Teachers of Mathematics (NCTM), the standards movement in K-12 education was launched. Since that time, the MSEB and the NCTM have remained committed to deepening the public debate, discourse, and understanding of the principles

and implications of standards-based reform. One of the main tenets in the NCTM Standards is commitment to providing high-quality mathematical experiences to all students. Another feature of the Standards is emphasis on development of specific mathematical topics across the grades. In particular, the Standards emphasize the importance of algebraic thinking as an essential strand in the elementary school curriculum. Issues related to school algebra are pivotal in many ways. Traditionally, algebra in high school or earlier has been considered a gatekeeper, critical to participation in postsecondary education, especially for minority students. Yet, as traditionally taught, first-year algebra courses have been characterized as an unmitigated disaster for most students. There have been many shifts in the algebra curriculum in schools within recent years. Some of these have been successful first steps in increasing enrollment in algebra and in broadening the scope of the algebra curriculum. Others have compounded existing problems. Algebra is not yet conceived of as a K-14 subject. Issues of opportunity and equity persist. Because there is no one answer to the dilemma of how to deal with algebra, making progress requires sustained dialogue, experimentation, reflection, and communication of ideas and practices at both the local and national levels. As an initial step in moving from national-level dialogue and speculations to concerted local and state level work on the role of algebra in the curriculum, the MSEB and the NCTM co-sponsored a national symposium, *The Nature and Role of Algebra in the K-14 Curriculum*, on May 27 and 28, 1997, at the National Academy of Sciences in Washington, D.C.

2018 elective maths wassce questions: Elementary Logic Brian Garrett, 2014-09-12
 Elementary Logic explains what logic is, how it is done, and why it can be exciting. The book covers the central part of logic that all students have to learn: propositional logic. It aims to provide a crystal-clear introduction to what is often regarded as the most technically difficult area in philosophy. The book opens with an explanation of what logic is and how it is constructed. Subsequent chapters take the reader step-by-step through all aspects of elementary logic. Throughout, ideas are explained simply and directly, with the chapters packed with overviews, illustrative examples, and summaries. Each chapter builds on previous explanation and example, with the final chapters presenting more advanced methods. After a discussion of meta-logic and logical systems, the book closes with an exploration of how paradoxes can exist in the world of logic. Elementary Logic's clarity and engagement make it ideal for any reader studying logic for the first time.

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