



basic education

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REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

MATHEMATICS P1

EXEMPLAR 2013

MEMORANDUM

MARKS: 150

This memorandum consists of 13 pages.

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Debates in Mathematics Education Dawn Leslie,Heather Mendick,2013-10-01 Debates in Mathematics Education explores the major issues that mathematics teachers encounter in their daily lives It engages with established and contemporary debates promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Written by experts in the field of mathematics education it investigates and offers fresh insight into topics of central importance including Gender social inequality and mathematics Mathematics politics and climate change The history and culture of mathematics Using popular culture in the mathematics classroom The concept of ability and its impact on learning What we mean by teaching for understanding Choosing and using examples in teaching The fitness of formal examinations Designed to stimulate discussion and support you in your own research writing and practice Debates in Mathematics Education will be a valuable resource for any student or practising teacher engaged in initial teacher training continuing professional development or Masters level study It also has much to offer to those leading initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education research

Teaching STEM and Common Core with Mentor Texts Anastasia Suen,Shirley L. Duke,2013-12-02 Librarians can use this book to become leaders in their schools collaborating with teachers to keep them abreast of resources that will facilitate the inclusion of STEM in the curriculum Teaching STEM and Common Core with Mentor Text explains the basics of STEM Science Technology Engineering and Mathematics and shows how librarians can become a key component in STEM education guiding teachers and sparking interest though the books and technology inherent in their curriculum The volume offers 20 mentor texts plus in depth collaborative lesson plans linked to the Common Core Standards for K 5 librarians There are additional lessons for classroom teachers as well as activities that can easily be done in the library or classroom Each lesson includes mentor text

information an overview of the lesson step by step lesson plans assessment options and extension activities By implementing these lessons in the library librarians will be able to cover multiple Common Core State Standards and science standards and at the same time establish the library as a resource for teaching STEM subjects

Adult and Continuing Education: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2014-03-31 Beyond the undergraduate and graduate levels education has traditionally ceased when students enter the workforce as professionals in their respective fields However recent trends in education have found that adult students beyond the traditional university age often benefit greatly from returning to further their education Adult and Continuing Education Concepts Methodologies Tools and Applications investigates some of the most promising trends in furthering education and professional development in a variety of settings and industries With an extensive array of chapters on topics ranging from non traditional students to online and distance education for adult learners this multi volume reference book will provide students educators and industry professionals with the tools necessary to make the most of their return to the classroom

Mathematics Teachers in Transition Elizabeth Fennema, Barbara Scott Nelson, 2013-04-03 This book addresses the need of professional development leaders and policymakers for scholarly knowledge about influencing teachers to modify mathematical instruction to bring it more in alignment with the recommendations of the current reform movement initiated by the National Council of Teachers of Mathematics The book presents theoretical perspectives for studying analyzing and understanding teacher change descriptions of contextual variables to be considered as one studies and attempts to understand teacher change and descriptions of professional development programs that resulted in teacher change One chapter builds a rationale for looking to developmental psychology for guidance in constructing models of reconstructing new forms of mathematical instruction Another highlights the relevance to mathematics teacher development of research based knowledge about how children construct mathematical ideas Other chapters explore the relationships between the various contexts of schooling and instructional change Included also are chapters that describe and analyze major reform efforts designed to assist teachers in modifying their instructional practices Cognitively Guided Instruction Math Cubed Project Impact Mathematics in Context and the Case Based Project Finally the current state of knowledge about encouraging teachers to modify their instruction is discussed the implications of major research and implementation findings are suggested and some of the major questions that need to be addressed are identified such as what we have learned about teacher change

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a break pressure tank which includes a lank structure a pipe arrangement defining a flow line leading through the tank structure from an inlet end connectable to a pipelina from reservoir and entering the tank structure near the top end thereof o an cullet end connectable to a pipeline leading to water supply points and leaving the tank

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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tanks which are usually made of concrete or ferrocement if break pressure tanks are used the hydraulic gradient starts again at the tank water level if suitably sized these tanks can be used within the system as storage tanks to meet peak demand reservoir storage tanks although a village's water needs are based upon a

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