

Mathematics and democracy

AMESA REGIONAL CONFERENCE - 17 MAY 2014 (Wits Education Campus, Parktown)



The Association for Mathematics Education of South Africa (AMESA) is hosting a regional conference at Wits University on the 17th May 2014.

The conference theme: Mathematics and democracy: How far have we moved?

Keynote address: Professional development, teacher agency and democracy: What are the implications for teaching and learning?

by Caroline Long (University of Pretoria)

Foundation Phase: Hands-on and minds-on activities are planned for teachers. These activities can be transformed into classroom activities.

Intermediate Phase: The critical concepts for this phase will be dealt with in interactive sessions.

Senior Phase: This phase provides the important transition from primary school to advanced mathematics. The presentations here will all deal with these crucial transitions.

FET: Important topics in preparation for matric exam will be covered.

Date: 17 May 2014
Venue: Wits School of Education (Parktown)
University of Witwatersrand
Time: 07:30-15:00

Registration fee: R50 (Members)
R170 (Non –members)

NB: R120 is for membership

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PROGRAMME

TIME	ACTIVITY				
07:30 – 08:30	Registration				
08:30 – 09:00	Opening and welcome: Khangelani Mdakane, Chairperson of AMESA Gauteng				
09:00 – 09:30	Professional development, teacher agency and democracy: What are the implications for teaching and learning? Caroline Long (University of Pretoria)				
09:30 – 09:45	TEA				
PARALLEL SESSIONS					
Venue					
	Grades 1 to 3	Grades 4, 5, 6 & 7	Grade 8 & 9	FET Maths Literacy	FET Mathematics FET Colleges
09:45 – 11:15	Space and Shape Nicky Roberts	Structure and generalization in number pattern activities Jacques du Plessis,	The Platonic Solids Erna Lampen	Teaching Maths Literacy using technology and cell phones Robyn Clark	Calculus Bharati Parshotam
11:15 – 12:45	Interactive activity Ingrid Sappire	Structure and generalization continued Jacques du Plessis,	The Platonic solids continued Erna Lampen	Skill with calculators Nicole Sengers SHARP	Euclidean geometry Muhammad Jeenah
12:45 – 13:30	Annual General Meeting				
13:30 – 14:30	LUNCH				




We thank SHARP and CASIO for their continued support.

Presentation descriptions

Bharati Parshotam (Grades 10 to 12)

Calculus

Muhammad Jeenah (Grades 10 to 12) (60 minutes)

Teaching has moved from the black board with white chalk, to white boards with black markers but have our teaching methods evolved as the learners have? The world has moved forward into the technological age but has education? Do we scare learners with the numbers or do we allow the numbers to inspire them? These are the questions I ask myself all the time. Discovering creating interactive methods to teach Mathematics excites me and incorporating technology meaningfully and effectively into education is a passion of mine.

Robyn Clark (Grades 10 to 12, Mathematics literacy)

Teaching mathematics with technology. It seems like almost every learner has a cell phone glued to their hands these days. This session will explore how teachers can use technology and cell phones to their advantage in the classroom. This interactive session will give you many ideas to use in your Maths Literacy Classroom.

Nicole Sengers (General)

Skill with calculators

Erna Lampen (Grades 8 & 9)

Investigating the properties of the five platonic solids is indicated in CAPS as a topic where geometric problem solving can become practical. To design the nets for the solids provides opportunities to consolidate knowledge of the properties of plane figures. Please bring scissors and math sets. Phase:

Jacques du Plessis (Grades 4 & 5)

In this session we will look at finding ways to promote the use of structure in the domain of number pattern at primary school level, in order to work towards the general and foster algebraic reasoning skills.

Nicky Roberts (Grades 1 to 3)

What are the big ideas and foundational concepts in this content area? Come along to a session aimed at Foundation Phase teaching and learning where we will explore patterns in 2D shapes, 3D objects, position, movement and change (transformations). This interactive session is packed with ideas to take back to your classroom. We will approach this content area in different ways.

Ingrid Sappire (Grades 1 to 3)

An interactive activity relevant for Foundation Phase learners.