

Let's Talk Mathematics!

An innovative Grade 9 Textbook by E. Makae, M. Nhlapo, M. de Villiers, H. Glover, M. Shembe & M. Masimela. (2001).

(Available from Juta-Gariep Publishers, Tel: 021-7633500/3600; gariep@mweb.co.za or Juta-Gariep, PO Box 35890, Menlo Park 0102. Tel: (012) 362-5799 Fax: (012) 362-5744; or Juta, Woodlands House, 55 Wierda Rd. East, Wierda Valley, Sandton 2196; Tel: 011-2177200. Gjohannes@juta.co.za, ejserve@juta.co.za or Bndukumbini@juta.co.za. Website: <http://www.juta.co.za>).

This book follows an OBE problem-centered approach, in the sense, that interesting and challenging problems from the real world or mathematics are used to motivate and develop mathematical content from. The approach is also integrated in the sense that different mathematical content and processes like modelling, conjecturing, proof, etc. are involved in producing solutions to the sets of problems.

There are also 7 *Sketchpad* sketches related to *Module 9: Water Supply*, which introduces the concepts perpendicular bisector, circumcircle, proof as a means of explanation, and maximisation and minimisation. These can be downloaded from:

<http://mzone.mweb.co.za/residents/profmd/module9.zip>

There are also 9 *Sketchpad* sketches related to *Module 10: Best Positions & Shortest Routes*, which introduces the concepts angle bisector, incircle, proof as a means of explanation, conjecturing and generalisation. These can be downloaded from:

<http://mzone.mweb.co.za/residents/profmd/module10.zip>

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ACE Mathematical Literacy, Mathematics and Mathematical Sciences

Let's talk Mathematics!

- is a new MLMMS series, based on the principles of OBE
- works from the critical outcomes to the specific outcomes to assessment criteria and performance indicators
- is built up around the five phase organisers
- meaningfully integrates specific outcomes from all eight learning areas with specific reference to mathematical concepts, and places the activities in context of real life situations
- provides for the acquisition of valuable knowledge, skills, values and attitudes
- empowers learners to actively participate in civil and economic activities
- develops key mathematical concepts
- presents mathematics in an exciting manner, promoting active learner participation
- has a learner-oriented approach, encourages critical and creative thinking and promotes holistic development
- has guidelines for continuous assessment, including a variety of assessment instruments
- consists of teacher's guides and learner's books for Grades 7, 8 and 9