# The Grade 9 Maths ANA – What Can We See After Three Years?

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#### INTRODUCTION

The Annual National Assessments (ANA) were introduced to address South Africa's poor performance in international mathematics assessments such as TIMSS and SACMEQ. The Grade 9 test was first written in 2012 with a national average of 12.7%. In 2013 the average increased to 13.9% but then dropped to 10.8% in 2014. The overall picture is one of very poor performance with the result that many questions are being asked about the value and purpose of the ANA.

The Department of Basic Education (DBE) identifies three purposes for the ANAs: (1) a measure for the state to gauge improvement in the education system, based on learner performance year-on-year; (2) a diagnostic assessment to identify areas of weakness in learners' performance; and (3) to provide a model of good assessment practice. While these are all important goals, they are not necessarily achievable through a single instrument. However, this is not the focus of our article. Our purpose here is to report on a content analysis of the three ANA papers which we undertook in the first quarter of 2015, paying particular attention to cognitive demand and levels of difficulty. We share our findings on these aspects, as well as on trends that arise as we look across the first three years of the Grade 9 Maths ANA.

#### CLASSIFICATION OF ITEMS

Classification of items into taxonomies is never a simple matter, and there are no perfect taxonomies. We have attempted to use existing taxonomies with which teachers are familiar but we are not suggesting that these are definitive levels or categories.

#### LEVELS OF COGNITIVE DEMAND

Levels of cognitive demand describe the nature of the item in terms of the mathematical demand. An early Grade 9 ANA document (DBE, 2011) distinguishes three levels: knowledge of basic concepts, application of concepts and non-routine problem solving. However, we chose to work with the four levels of cognitive demand as described in the CAPS document since these are the levels that teachers work with regularly.

- Knowledge requires straight recall, use of mathematical facts, identification and direct use
  of formulae.
- Restive preador well-rehearsed and familiar algorithms, simple calculations that may involve several steps, use of formulae requiring change of subject.
- Complex procidor several calculations that are not all of the same type, complex calculations, route to solution is not entirely obvious, connecting representations, developing proof, requires conceptual understanding.
- Problem solving unseen, non-routine problems, route to solution is not suggested, also requires conceptual understanding.

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Lancia, Elvira Popescu, Minoru Nakayama, Vittorio Scarano, Ana B. Gil, 2020-08-13 This book features papers from workshops at the 10th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning which was hosted by the University of L Aquila Italy from 17th to 19th June 2020 The workshops provided participants with the opportunity to present and discuss novel research ideas on emerging topics complementing the main conference They particularly focused on multi disciplinary and transversal aspects such as TEL in nursing education programs social and personal computing for web supported learning communities interactive environments and emerging technologies for eLearning and TEL for future citizens Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every Advancing DEI and Creating Inclusive Environments in the Online Space McCune, academic and corporate library Nina M., 2022-06-24 Diversity and inclusion are vital practices in today's educational environments both online and in person Implementing inclusive practices to support student development is critical to ensure they receive the best possible education and feel comfortable in the classroom With the current shift to online teaching and learning it is especially important to consider how diversity and equity are promoted in these new technological spaces Advancing DEI and Creating Inclusive Environments in the Online Space considers the process of creating a caring and inclusive teaching and learning environment in online postsecondary institutions by addressing key issues such as creating sites of collaboration and engagement ensuring and proactively delivering resources and student support and developing hallmarks of inclusivity to support online course design and faculty development Covering a range of topics such as strategic planning social change and assessment this reference work is ideal for administrators higher education faculty researchers scholars practitioners

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