

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.
- *Routine procedure* – well-rehearsed and familiar algorithms, simple calculations that may involve several steps, use of formulae requiring change of subject.
- *Complex procedure* – 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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Table of Contents Grade 9 Maths Ana 2014

1. Understanding the eBook Grade 9 Maths Ana 2014
 - The Rise of Digital Reading Grade 9 Maths Ana 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 Maths Ana 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 9 Maths Ana 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 Maths Ana 2014
 - Personalized Recommendations
 - Grade 9 Maths Ana 2014 User Reviews and Ratings
 - Grade 9 Maths Ana 2014 and Bestseller Lists
5. Accessing Grade 9 Maths Ana 2014 Free and Paid eBooks
 - Grade 9 Maths Ana 2014 Public Domain eBooks
 - Grade 9 Maths Ana 2014 eBook Subscription Services
 - Grade 9 Maths Ana 2014 Budget-Friendly Options
6. Navigating Grade 9 Maths Ana 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 9 Maths Ana 2014 Compatibility with Devices
 - Grade 9 Maths Ana 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 9 Maths Ana 2014
 - Highlighting and Note-Taking Grade 9 Maths Ana 2014
 - Interactive Elements Grade 9 Maths Ana 2014
8. Staying Engaged with Grade 9 Maths Ana 2014

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 9 Maths Ana 2014
9. Balancing eBooks and Physical Books Grade 9 Maths Ana 2014
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 9 Maths Ana 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 Maths Ana 2014
- Setting Reading Goals Grade 9 Maths Ana 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 Maths Ana 2014
- Fact-Checking eBook Content of Grade 9 Maths Ana 2014
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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