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.

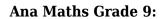
LEVELS OF COGNITIVE DEMAND

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.

Ana Maths Grade 9

M Carnoy



The Top Books of the Year Ana Maths Grade 9 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Ana Maths Grade 9: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Ana Maths Grade 9: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ana Maths Grade 9: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Ana Maths Grade 9

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

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

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