

## 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.

# Grade 9 Ana Maths 2014

**M Mark**



**Grade 9 Ana Maths 2014:**

This book delves into Grade 9 Ana Maths 2014. Grade 9 Ana Maths 2014 is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Grade 9 Ana Maths 2014, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Grade 9 Ana Maths 2014
- Chapter 2: Essential Elements of Grade 9 Ana Maths 2014
- Chapter 3: Grade 9 Ana Maths 2014 in Everyday Life
- Chapter 4: Grade 9 Ana Maths 2014 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Grade 9 Ana Maths 2014. The first chapter will explore what Grade 9 Ana Maths 2014 is, why Grade 9 Ana Maths 2014 is vital, and how to effectively learn about Grade 9 Ana Maths 2014.

3. In chapter 2, this book will delve into the foundational concepts of Grade 9 Ana Maths 2014. This chapter will elucidate the essential principles that must be understood to grasp Grade 9 Ana Maths 2014 in its entirety.

4. In chapter 3, this book will examine the practical applications of Grade 9 Ana Maths 2014 in daily life. This chapter will showcase real-world examples of how Grade 9 Ana Maths 2014 can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Grade 9 Ana Maths 2014 in specific contexts. The fourth chapter will explore how Grade 9 Ana Maths 2014 is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Grade 9 Ana Maths 2014. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Grade 9 Ana Maths 2014.

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