

### Gr 10 Maths 3-in-1 (Modules 1 → 4)

#### **Module 1:** Numbers & Number Patterns

Types of Numbers

Intervals & Surds

Mixed Exercise

1.1

1.1

1.1 → 1.4

1.5 → 1.7

1.15 → 1.16

#### **Module 2:** Exponents

Laws, Expressions & Equations

2.1

2.1 → 2.12

#### **Module 3:** Algebraic Expressions

Products & Factors

Fractions

3.1

3.1 → 3.16

3.17 → 3.24

#### **Module 4:** Algebraic Equations & Inequalities

Linear Equations & Inequalities

Simultaneous Linear Equations

Quadratic Equations

Surd Equations

Modelling

Word Sums

4.1

4.1 → 4.8


4.9 → 4.13

4.13 → 4.19

4.19

4.20 → 4.21

4.22 → 4.27



Also see: Exemplar P1  
(Q1 & Q2)

..... E1

## Gr 11 Maths 3-in-1 (Modules 1 → 3)

1.1

**Module 1:** Numbers & Fundamental Concepts

1.1 → 1.8

**Module 2:** Exponents & Surds

2.1 → 2.7

**Module 3:** Algebraic Expressions, Equations, Nature of Roots

3.1 → 3.9

Quadratic Inequalities

3.10 → 3.11

Simultaneous Equations

3.11 → 3.12



Also see: Exemplar P1  
(Q1 → Q3)

..... Q1

## Gr 12 Maths 2-in-1 (Module 1)

1

Algebra & Numbers, Exponents & Surds

1 → 4



See Challenging Questions booklet:  
pages 1 → 2



See the Topic Guides on p. 147 for further exam practice.

## Gr 12 Maths Past Papers Toolkit



See the Topic Guides: DBE: p. 1 & IEB: p. 39

### Gr 10 Maths 3-in-1 (Module 1)

Number & Geometric Patterns



Also see: Exemplar P1 (Q3)

1.7 → 1.14

E1

### Gr 11 Maths 3-in-1 (Module 4)

Number Patterns

Linear Sequences

Quadratic Sequences



Also see: Exemplar P1 (Q6 and Q7)

4.1

4.1 → 4.6

4.7

4.7 → 4.10

Q2

### Gr 12 Maths 2-in-1 (Module 2)

Classic Patterns & Quadratic Sequences

Arithmetic (Linear) Sequences

Geometric (Exponential) Sequences

Sigma ( $\Sigma$ ) & Applications

Back pages: AP & GP Bookwork (Proofs of Sum formulae)



See Challenging Questions  
booklet:  
pages 2 → 3

4

4

4 → 5

5 → 6

6 → 7

i



See the Topic Guide on p. 147 for further exam practice.

### Gr 12 Maths Past Papers Toolkit

Back pages: Examinable proofs



See the Topic Guides: DBE: p. 1 & IEB: p. 39

i

# Functions

## References to TAS Maths books

### Gr 10 Maths 3-in-1 (Module 6)

Introduction

Functions

Individual graphs and their properties

Interpretation of graphs

6.1

6.1 → 6.4

6.4 → 6.5

6.6 → 6.17

6.17 → 6.21

Also see: Exemplar P1 (Q6 & Q7)

E2

### Gr 11 Maths 3-in-1 (Module 6a)

Algebraic Graphs

6.1

6.1 → 6.32

Also see: Exemplar P1 (Q8 → Q10)

Q2

### Gr 12 Maths 2-in-1 (Modules 3, 4 and 7)

# 3: Functions & Inverse functions

# 4: Logs & Log functions

# 7: Polynomials (3<sup>rd</sup> degree)

See Challenging Questions booklet:  
pages 4 → 9

8 → 12

12 → 15

27 → 28

See the Topic Guide on p. 147 for further exam practice.

### Gr 12 Maths Past Papers Toolkit

See the Topic Guides: DBE: p. 1 & IEB: p. 39

### Gr 10 Maths 3-in-1 (Module 9)

Interest and Interest Rate  
Foreign Exchange Rates  
Revision Exercise



Also see: Exemplar P1 (Q4)

9.1  
9.1 → 9.5  
9.5 → 9.8  
9.8 → 9.11  
E1

### Gr 11 Maths 3-in-1 (Module 11)

Simple and Compound Growth & Decay  
Different Periods of Growth and Decay  
Timelines  
Nominal and Effective Interest Rates



Also see: Exemplar P1 (Q4 & Q5)

11.1  
11.1 → 11.5  
11.5 → 11.6  
11.7 → 11.9  
11.9 → 11.10  
Q1

### Gr 12 Maths 2-in-1 (Module 5)

Simple and Compound Growth and Decay  
Nominal and Effective Interest Rates  
Timelines  
Sinking Funds  
Annuities



See Challenging Questions booklet:  
pages 20 → 21

15  
15 → 16  
16 → 17  
17  
17 → 19

See the Topic Guide on p. 147 for further exam practice.



### Gr 12 Maths Past Papers Toolkit



See the Topic Guides: DBE: p. 1 & IEB: p. 39

### Gr 12 Maths 2-in-1 (Modules 7 & 8)

Polynomials (3<sup>rd</sup> degree)

Differential Calculus



27 → 28

29 → 32

See Challenging Questions booklet:  
pages 9 → 15



See the Topic Guides on p. 147 for further exam practice.

Back pages: Concavity & The Point of Inflection

xv → xvi

### Gr 12 Maths Past Papers Toolkit

Back pages: Concavity & The Point of Inflection

ix → x

See the Topic Guides: DBE: p. 1 & IEB: p. 39



# Probability

## References to TAS Maths books

### Gr 10 Maths 3-in-1 (Module 12)

Definitions and Terminology  
Calculating Probability  
Visual Representations of Probability



Also see: Exemplar P1 (Q5)

12.1  
12.1 → 12.2  
12.2 → 12.3  
12.3 → 12.11  
E2

### Gr 11 Maths 3-in-1 (Module 12)

Introduction to Probability  
Venn Diagrams  
Independent Events  
2-Way Contingency Tables  
Exercises



Also see: Exemplar P1 (Q11 & Q12)

12.1  
12.2 → 12.5  
12.6 → 12.10  
12.11 → 12.14  
12.15 → 12.16  
12.17 → 12.19

### Gr 12 Maths 2-in-1 (Module 12)

The Probability Rules  
Venn Diagrams  
Tree Diagrams  
2-Way Contingency Tables  
Fundamental Counting Principle



See Challenging Questions booklet:  
pages 16 → 19

50  
50  
50 → 51  
51 → 52  
52 → 53  
53

See the Topic Guide on p. 147 for further exam practice.



### Gr 12 Maths Past Papers Toolkit



See the Topic Guides: DBE: p. 1 & IEB: p. 39

