MATHEMATICS
GRADE 10 TERM 1
Tracker

CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:			
			Class				Class			
			Date Completed				Date Completed			
Lesson 1										

Topic: Algebraic Expressions
 • The Real Number System
     o Classify real numbers (number line, in set builder notation and interval notation)
     o Establish between which two integers a simple surd lies
     o Round real numbers
	2	21								

Lesson 2										
Topic: Algebraic Expressions • Products o Multiply a binomial with a binomial and a trinomial	1	21								
Lesson 3										

Topic: Algebraic Expressions
 • Factorisation – Highest Common Factor
     o Factorise an expression by taking out the highest common factor
     o Use grouping to factorise an expression
	1,5	21								

Lesson 4										
Topic: Algebraic Expressions • Investigation o Complete an investigation on the factorising of a difference of two squares using a knowledge of numbers and geometry.	1	21								

Lesson 5											
Topic: Algebraic Expressions • Factorisation – Difference of two squares o Factorise a difference of two squares	1	21									
Lesson 6											
Topic: Algebraic Expressions • Factorisation - Trinomials o Factorise trinomials, including perfect square trinomials, and trinomials in the form $ax^2 + bx + c$ where $a \neq 1$	2	21									
Lesson 7											
Topic: Algebraic Expressions • Factorisation – Sum and Difference of two cubes o Factorise the sum and difference of two cubes	1	21									
Lesson 8											
Topic: Algebraic Expressions • Algebraic Fractions – Simplification, Multiplication and Division o Simplify one term algebraic fractions using factorisation o Multiply and divide algebraic fractions	2	21									
Lesson 9											
Topic: Algebraic Expressions • Algebraic Fractions – Addition and Subtraction o Add and subtract algebraic fractions	1	21									
Lesson 10											
Topic: Algebraic Expressions • Revision and Consolidation o All concepts covered in this topic	1	21									

Reflection

Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time? Why?	
	HOD:	Date:

Topic 2: Exponents										
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:			
			Class				Class			
			Date Completed				Date Completed			
Lesson 1										
Topic: Exponents • Simplifying using exponential laws and definitions o Simplify expressions using the laws and definitions of exponents	2	21								
Lesson 2										

Topic: Exponents
• Simplifying using prime factors and factorisation
  o Simplify expressions by using prime factors and the laws of exponents
  o Simplify expressions by using factorisation and the laws of exponents
	2	21								

Lesson 3										
Topic: Exponents • Rational exponents o Simplify expressions with rational exponents	1	21								
Lesson 4										
Topic: Exponents • Exponential equations o Solve exponential equations	2	21								
Lesson 5										

Topic: Exponents
• Revision and Consolidation
  o Simplifying expressions using the laws of exponents
  o Solving exponential equations
	2	21								

Reflection

Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time? Why?	
	HOD:	Date:

Topic 3: Number Patterns										
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:			
			Class				Class			
			Date Completed				Date Completed			
Lesson 1										

Topic: Number Patterns
• Linear number patterns
   o Recognise a linear pattern
   o Find the general term of a linear pattern
   o Find a term in a given position of a linear pattern
   o Find the position of a term in a linear pattern
	2,5	22								

Lesson 2										
Topic: Number Patterns • Revision and Consolidation	2	22								
Reflection										

Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time? Why?	
	HOD:	Date:

Topic 4: Equations and Inequalities										
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:			
			Class				Class			
			Date Completed				Date Completed			
Lesson 1										
Topic: Equations and Inequalities • Linear equations o Solve linear equations	1	22								
Lesson 2										
Topic: Equations and Inequalities • Quadratic equations o Solve quadratic equations	1,5	22								
Lesson 3										
Topic: Equations and Inequalities • Simultaneous equations o Solve simultaneous equations	1,5	22								
Lesson 4										
Topic: Equations and Inequalities • Literal equations o Solve literal equations	1	22								
Lesson 5										

Topic: Equations and Inequalities
• Linear inequalities
   o Solve linear inequalities
   o Represent inequalities on a number line and in interval notation.
	1	22								

Lesson 6										
Topic: Equations and Inequalities • Word problems o Work with a partner to read, understand and develop a	1	22								

strategy to solve word problems.											
Lesson 7											
Topic: Equations and Inequalities • Revision and Consolidation	2	22									
Reflection											

Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time? Why?	
	HOD:	Date:

Topic 5: Trigonometry									
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:			Year:			
			Class			Class			
			Date Completed			Date Completed			
Lesson 1									

Topic: Trigonometry
• Introduction to Trigonometry
   o Name the sides in a right-angled triangle
   o Learn the three main ratios.
	2	23							

Lesson 2									

Topic: Trigonometry
• Reciprocals
   o List the three reciprocals
   o Do basic calculations using the reciprocals.
	1	23							

Lesson 3									
Topic: Trigonometry • Calculator work o Finding ratios on a calculator	1	23							
Lesson 4									
Topic: Trigonometry • Special angles o Name the ratios of all the special angles	1	23							
Lesson 5									
Topic: Trigonometry • Solving equations o Find the size of an angle, given the ratio	2	23							
Lesson 6									

Topic: Trigonometry
• Solving triangles (2-dimensional problems)
   o Find an unknown angle or side in a right-angled triangle
   o Answer word problems involving angles of elevation and depression in situations that involve right-angled triangles.
	2,5	23							

Lesson 7											
Topic: Trigonometry • Cartesian plane and Pythagoras questions o Find the value of trigonometric ratios given information and without the use of a calculator.	2	23									
Lesson 8											
Topic: Trigonometry • Revision and Consolidation	2	23									

Reflection	
Think about and make a note of: What went well? What did not go well? What did the learners find difficult or easy to understand or do? What will you do to support or extend learners? Did you cover all the work set for the week? If not, how will you get back on track?	What will you change next time? Why?
	HOD: Date: