MATHEMATICS
GRADE 11 TERM 1
Tracker

Topic 1: Exponents and Surds											
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:				
			Class				Class				
			Date Completed				Date Completed				
Lesson 1											
Topic: Exponents and Surds • Revision o Laws of exponents	1.5	30									
Lesson 2											
Topic: Exponents and Surds • Simplification of expressions using the laws	2	30									
Lesson 3											
Topic: Exponents and Surds • Rational exponents	2	30									
Lesson 4											
Topic: Exponents and Surds • Exponential equations	2	30									
Lesson 5											
Topic: Exponents and Surds • Simplification of surds	2	30									
Lesson 6											
Topic: Exponents and Surds • Surd equations	2	30									
Lesson 7											
Topic: Exponents and Surds • Revision and consolidation	2	30									

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: 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
• Completeting the square; maximum and minimum
   ○ complete the square on an expression
   ○ determine maximum or minimum represented by the expression in the form $a(x-p)^2 + q$.
	2	30								

Lesson 2										
Topic: Equations and Inequalities • Solve quadratic equations by completing the square	1	30								
Lesson 3										
Topic: Equations and Inequalities • Solving quadratic equations by factorising	1	30								
Lesson 4										
Topic: Equations and Inequalities • Solving quadratic equations with fractions	1	30								
Lesson 5										
Topic: Equations and Inequalities • Solving quadratic equations equations using the quadratic formula	1	30								
Lesson 6										
Topic: Equations and Inequalities • Simultaneous equations ○ solve simultaneous equations where one is quadratic and the other is linear.	1.5	30								

Lesson 7											
Topic: Equations and Inequalities • Solve word problems	1	30									

Lesson 8											
Topic: Equations and Inequalities • Solve quadratic inequalities	2	30									

Lesson 9											
Topic: Equations and Inequalities • Nature of roots o Discuss the nature of roots of a quadratic function.	1.5	30									

Lesson 10											
Topic: Equations and Inequalities • Revision and consolidation	1.5	30									

Reflection	
hink 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 • Revision of linear number patterns	2.5	30								
Lesson 2										
Topic: Number patterns • Quadratic patterns o recognise a quadratic pattern o find the general term of a quadratic pattern o find a term in a given position of a quadratic pattern o find the position of a term in a quadratic pattern.	3.5	30								
Lesson 3										
Topic: Number patterns • Revision and consolidation	3	30								
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: Analytical Geometry											
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:				Year:				
			Class				Class				
			Date Completed				Date Completed				
Lesson 1											

Topic: Analytical geometry
• Revision of Analytical geometry
   o distance between two points
   o gradient of a line segment
   o mid-point of a line segment.
	3	31									

Lesson 2											

Topic: Analytical geometry
• Finding equations of straight lines
   o two points
   o one point and information regarding the gradient (parallel or perpendicular).
	2.5	31									

Lesson 3											
Topic: Analytical geometry • Investigation o complete an investigation on the angle of inclination.	1	31									
Lesson 4											
Topic: Analytical geometry • Finding the inclination of a line	3	31									
Lesson 5											
Topic: Analytical geometry • Revision and consolidation	3	31									
Term 1 Test											
Test • Complete the test	1	31									

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: