MATHEMATICS GRADE 12 TERM 1 Tracker

	Topi	c 1: Patt	erns, Se	quence	s and Se	eries					
	•			Ye				Ye	ar:		
CAPS Concepts and	Time	CAPS		Class				Cla	ass		
Activities	(Hrs)	Page									
	(*****)	no.	[Date Completed			Date Completed				
Lesson 1				Jace Co	Inpiecee		Date completed				
Topic: Patterns, Sequences	1	40									
and Series	_									ļ	
Revision											
Linear patters											
 Quadratic patterns 											
Lesson 2											
Topic: Patterns, Sequences	1	40									
and Series											
Arithmetic sequences											
 Recognise an arithmetic sequence 											
Find the general term of											
an arithmetic sequence											
 Answer other questions 											
based on the arithmetic											
sequence such as position											
of a term and a finding a term in a given position											
teriir iir a giveri position											
Lesson 3											
Topic: Patterns, Sequences	2	40									
and Series	_	.0									
Geometric sequences											
 Recognise a geometric 											
sequence											
 Find the general term of 											
an geometric sequence											
 Answer other questions based on the geometric 											
sequence such as position											
of a term and a finding a											
term in a given position											
Lesson 4											
Topic: Patterns, Sequences	2	40									
and Series	_	40									
 Sum of arithmetic sequences 											
Find the sum of an											
arithmetic sequence											
 Derive the formula for 											
finding the sum of an											
arithmetic sequence											
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Lesson 5						
Topic: Patterns, Sequences and Series Sum of geometric sequences Find the sum of a geometric sequence Derive the formula for finding the sum of a geometric sequence	2	40				
Lesson 6						
Topic: Patterns, Sequences and Series • Sigma notation o Find the sum of a series when given the sigma notation o Write a series in sigma notation	1	40				
Lesson 7						
Topic: Patterns, Sequences and Series Sum to infinity Explain the difference between a diverging and converging geometric series Find the sum to infinity of a converging geometric series	2	40				
Lesson 8						
Topic: Patterns, Sequences and Series Revision and consolidation	1,5	40				
Lesson 9						
Topic: Patterns, Sequences and Series • Assignment	1	40				

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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 chan	ge next time? Why?
	HOD:	Date:

Topic 2: Functi	ons: For	mal Def	inition;	Inverses	s; Expon	ential a	nd Loga	rithmic		
		CAPS Page		Ye	ar:			Ye	ar:	
CAPS Concepts and	Time			Cla	ass			Cla	ass	
Activities	(Hrs)	no.								
Losson 1				Date Co	mpleted			Date Co	mpleted	
Lesson 1 Topic: Functions	2,5	40,								
• Revision	2,5	41								
 Revise finctions from 										
previous years o Define and recognise										
functions										
Lesson 2	1	40								
Topic: Functions Investigation	1	40, 41								
Lesson 3										
Topic: Functions	4	40,								
 Inverse functions and their graphs 		41								
 Explain what an inverse 										
function is o Find the equation of an										
inverse function										
Restrict the domain of a										
quadratic function to make the inverse a										
function										
Lesson 4										
Topic: Functions	3	40,								
Revision of exponential laws		41								
and exponential functions o Exponential laws and										
definitions										
 Exponential functions 										
Lesson 5										
Topic: Functions	2,5	40,								
• Logarithms	_,-	41								
Define a logarithmUse logarithmic laws in										
 Use logarithmic laws in simple form 										
Lesson 6		4.0								
Topic: Functions • Logarithmic functions	2	40, 41								
Recognise and sketch		41								
logarithmic functions										
 Answer questions related to logarithmic functions 										

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Lesson 7										
Topic: Functions	2	40,								
Revision and consolidation		41								
			Refle	ction						
Think about and make a note of: What w learners find difficult or easy to understalearners? Did you cover all the work set track?	nd or do?	What will y	ou do to s	upport or	extend		ll you chan		ner wnyr	
						HOD:		Date:		

Topic 3: Finance, Growth and Decay													
		CAPS		Ye	ar:			Ye	ar:				
CAPS Concepts and	Time	Page no.		Cla	ass		Class						
Activities	(Hrs)												
				Date Co	mpleted	1		Date Co	mpleted				
Lesson 1	4	4.2											
Topic: Finance, Growth and Decay	1	42											
 Revision of: Nominal and effective interest rates Depreciation Different Compounding periods 													
Lesson 2													
Topic: Finance, Growth and Decay • Future Value Annuities • Calculating the future value of an annuity • Calculating the monthly payment of an annuity	2.5	42											
Lesson 3													
Topic: Finance, Growth and Decay • Present Value annuities • Calculating the present value of an annuity • Calculating the monthly payment of an annuity	2.5	42											
Lesson 4													
Topic: Finance, Growth and Decay Time periods of annuities Calculating the time period of an annuity Calculating the final instalment of a present value annuity	1.5	42											
Lesson 5													
 Topic: Finance, Growth and Decay Analysing investments and loans Pyramid schemes 	0.5	42											

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Lesson 6													
Topic: Finance, Growth and	1	42											
Decay													
 Revision and Consolidation 													
Reflection Think about and make a note of: What went well? What did not go well? What did the What will you change next time? Why?													
	What wil	I you chan	ge next tin	ne? Why?									
learners find difficult or easy to understa learners? Did you cover all the work set t track?													
						HOD:		Date:					

Topic 4: Trigonometry												
		CAPS -			ar:			Ye	ar:			
CAPS Concepts and	Time (Hrs)			Cla	ass	•		Cla	ess			
Activities		no.										
				Date Co	mpleted			Date Co	mpleted			
Lesson 1	2	42										
Topic: Trigonometry Revision	2	42										
o Grade 11 Trigonometry												
Lesson 2												
Topic: Trigonometry ■ Investigation □ Investigation on compound angles and double angles	1	42										
Lesson 3												
Topic: Trigonometry Compound angles and double angles Recognise compound angles and double angles Expand and simplify compound angles and double angles	2	42										
Lesson 4												
Derivation and application of compound angles and double angles formulae Derive the compound angles and double angles formulae Apply the compound angles and double angles formulae	1	42										
Lesson 5												
Topic: Trigonometry General solutions Find general solutions involving compound angles and double angles and factorising	1	42										
Lesson 6												
Topic: Trigonometry Identities Prove identities involving compound angles and double angles	1	42										

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 Find the values of an unknown that make an identity invalid 											
Lesson 7											
Topic: TrigonometryRevision and consolidation	1	42									
Term 1 Test											
TestComplete the test	1	42									
Reflection											
Think about and make a note of: What w learners find difficult or easy to understa learners? Did you cover all the work set track?	and or do?	What will y	ou do to s	upport or e	extend		l you chan		ne? Why?		
						HOD:		Date:			