MATHEMATICS

GRADE 11 TERM 3

Tracker

Topic 1: Measurement													
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:					Year:					
			Class					Class					
			Date Completed					Date Completed					
Lesson 1													
Topic: Measurement • Revision o Volume and surface area of 3D solids, including the cube, rectangular prism, triangular prism, cylinder, cone, sphere and pyramid.	4.5	34											

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: Euclidean Geometry													
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:					Year:					
			Class					Class					
			Date Completed					Date Completed					
Lesson 1													
Topic: Euclidean Geometry • Revision o Geometry concepts from previous years	1.5	34											
Lesson 2													
Topic: Euclidean Geometry • investigate and prove the theorems of the geometry of circles: o The line drawn from the centre of a circle perpendicular to a chord bisects the chord o The perpendicular bisector of a chord passes through the centre of the circle	1.5	34											
Lesson 3													
Topic: Euclidean Geometry • investigate and prove the theorems of the geometry of circles: o The angle subtended by an arc at the centre of a circle is double the size of the angle subtended by the same arc at the circle (on the same side of the chord as the centre)	1.5	34											
Lesson 4													
Topic: Euclidean Geometry • investigate and prove the theorems of the geometry of circles: o Angles subtended by a chord of the circle, on the same side of the chord, are equal	1	34											

Lesson 5												
Topic: Euclidean Geometry • investigate and prove the theorems of the geometry of circles: o The opposite angles of a cyclic quadrilateral are supplementary	2.5	34										
Lesson 6												
Topic: Euclidean Geometry • investigate and prove the theorems of the geometry of circles: o Two tangents drawn to a circle from the same point outside the circle are equal in length o The angle between the tangent to a circle and the chord drawn from the point of contact is equal to the angle in the alternate segment	3	34										
Lesson 7												
Topic: Euclidean Geometry • Combination of all the theorems and consolidation.	2.5	34										

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: Trigonometry													
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:					Year:					
			Class					Class					
			Date Completed					Date Completed					
Lesson 1													
Topic: Trigonometry • Revision o Right-angled trigonometry	1	37											
Lesson 2													
Topic: Trigonometry • Prove and apply the sine rule	1.5	37											
Lesson 3													
Topic: Trigonometry • Prove and apply the cosine rule	1.5	37											
Lesson 4													
Topic: Trigonometry • Prove and apply the area rule	1	37											
Lesson 5													
Topic: Trigonometry • Proofs of the sine, cosine and area rules	1	37											
Lesson 6													
Topic: Trigonometry • Solve problems in two dimensions using the sine, cosine and area rules	2	37											
Lesson 7													
Topic: Trigonometry • Revision and consolidation	1	37											

<table>
<tr><th colspan="3">Reflection</th></tr>
<tr><td rowspan="2">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?</td><td colspan="2">What will you change next time? Why?</td></tr>
<tr><td>HOD:</td><td>Date:</td></tr>
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Topic 4: Finance, growth and decay													
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:					Year:					
			Class					Class					
			Date Completed					Date Completed					
Lesson 1													
Topic: Finance, growth and decay • Revision o simple interest and hire purchase o compound interest and inflation o exchange rates.	1.5	37											
Lesson 2													
Topic: Finance, growth and decay • differentiate between straight line and reducing balance depreciation	2	37											
Lesson 3													
Topic: Finance, growth and decay • solve complex problems with changing rates and withdrawals using timelines.	3	37											
Lesson 4													
Topic: Finance, growth and decay • explain the difference between nominal and effective interest rates • convert between nominal and effective rates	1.5	37											

Lesson 5												
Topic: Finance, growth and decay • Revision and consolidation	1	37										

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: Probability												
CAPS Concepts and Activities	Time (Hrs)	CAPS Page no.	Year:					Year:				
			Class					Class				
			Date Completed					Date Completed				
Lesson 1												
Topic: Probability • Revision o Theoretical probability o Venn diagrams o Mutually exclusive and complementary events	1.5	38										
Lesson 2												
Topic: Probability • draw and use tree diagrams to solve problems • understand the concept of dependent and independent events.	2	38										
Lesson 3												
Topic: Probability • The use of Venn diagrams to solve probability problems, deriving and applying formulae for any three events A, B and C in a sample space S.	2	38										
Lesson 4												
Topic: Probability • use contingency tables to solve problems • understand the concept of dependent and independent events.	1.5	38										

Lesson 5												
Topic: Probability • explain the concepts of dependent events and independent events and prove whether events are independent or not.	1	38										
Lesson 6												
Topic: Probability • Revision and consolidation	1	38										

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: