[100]

### **MATHEMATICS HIGHER GRADE**

A.	MEA	NS OF	ASSESSMEN	Т			
	Paper Paper Total	I II	3 hours 3 hours	– set out of – set out of	[200] [200] [400]	adjusted to be out of	[300]
	Conti	nuous A	Assessment (CA	ASS)			[100]
							400 marks
B.	REQ	UIREN	MENTS				
	Inclue	ded wit	h the papers is a	formula sheet.			
	PAPE	CR I	ALGEBRA A	AND DIFFERE	NTIATE	D CALCULUS	[200]
	The n	nark all	ocation for this	paper is as follo	ows:		
	Algeb	ra			±75%		[±150]
	Differ	ential (	Calculus		±25%		[±50]
	PAPE	ER II	GEO	OMETRY AND	O TRIGO	NOMETRY	[200]
	Wher shown book.	e diagr n in the	ams are supplied answer book an	d on a separate and the diagram s	answer she sheet must	eet the working details n be handed in with the a	nust be nswer
	(a)	One sectio	general questions of the whole	n of a miscell syllabus may b	aneous na e asked.	ture covering two or (5% - 10%)	more [±10]
	(b)	Eucli	dean Geometry			30% (±5%)	[±65]
	(c)	Anal	ytical Geometry			25% (±5%)	[±50]
	(d)	Trigo	onometry			40% (±5%)	[±80]

#### C. CONTINUOUS ASSESSMENT (CASS) - PORTFOLIO

Teachers will be required to assess candidates' work throughout the year and submit a mark to the IEB, which will arrange for moderation of this assessment.

## See the following pages (30a/2 - 30a/3) for further details.

### CONTINUAL ASSESSMENT (CASS) FOR MATHEMATICS HG

## **Minimum Requirements for CASS**

School based assessment (SBA) or CASS comprises 25% of the total assessment for the senior certificate.

Table 1 Percentage and mark allocations for CASS and the external examination	Table	1 Percentage and	d mark allocations	for CASS and	the external	examination
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		Н	G
	Percentage	Maximum	Submit out of
		mark	(Maximum)
External Examination	75	400	300
CASS	25	*	100
TOTAL	100		400

\* The maximum number of marks for the CASS component will depend on each teacher.

The requirements for the school-based component of the senior certificate assessment are summarised in Table 2.

Table 2 A Su	mmary of the Continuo	ous Assessment (CAS	SS) components for Ma	thematics HC
Components	Description	Minimum requirements	Suggestions for the CASS programme	Weighting
Alternate forms of	Shorter Items (less than 1 hour) Journals Orals Correction Items Homework / Classwork Other	4 shorter items (each 5 marks)		10%
assessment	Longer Items (more than 1 hour) Projects Investigations Olympiads Tutorial	2 longer items (each 30 marks)	Attempt the longer items during the last two terms of grade 11 and the first term of grade 12.	30%
Tests	Class test These need not be moderated or standardised.	4 class tests spread over the 2 <sup>nd</sup> half of the grade 11 year and the grade 12 year The class tests should be used formatively. Pupils can select their best efforts.	<b>Class tests</b> Begin these in grade 11. This will ensure the pupils have a good opportunity to select their best tests.	Class tests = 10%
	<b>Formal test</b> The tests should be moderated (at least internally) or standardised.	<b>2 formal tests</b> taking place in different terms. (HG – 50 marks & SG – 35 marks)	<b>Formal tests</b> 1 – last term grade 11 1 – first term grade 12	Formal tests =20 %
Examinations	Examinations must reflect the format and standard of the IEB exam	2 exams	Prelim / Trial exam Paper I – 3 hours Paper II – 3 hours	30%

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- No more than 60% of the CASS component should be based on the content covered by any one of the two final question papers. (For e.g. up to a maximum of 60% of the CASS can be based on Geometry and Trigonometry, the content in paper II. 40% would then be based on the Algebra, the content of paper I, and vice versa.)
- For a more detailed description of these components see the resource document "Components of Continuous Assessment for Mathematics, Grade 12".

## Candidate's portfolio

- Each candidate must submit a portfolio of his / her own work in accordance with the minimum requirements as set out in Table 2 A "Summary of the Continuous Assessment (CASS) components for Mathematics HG."
- A candidate may present the portfolio in a folder, file or collected together in a neatly bound compilation as decided by the school or teacher.
- A "Summary of assessment: Mathematics portfolio HG" (see page 30a/5) sheet must appear at the front of each candidate's portfolio.
- All the items in the portfolio must be headed and numbered as on the "Summary of assessment: Mathematics portfolio HG", for the moderation process.
- All work must be marked (or controlled) by the teacher before it can be placed in the portfolio.
- The candidate completes the form "*Summary of assessment: Mathematics portfolio HG*" (see page 30a/5). However the teacher takes responsibility for the accuracy of the marks entered on the Summary of Marks table. The teacher ensures that the candidate correctly completes the form.
- The different components of the assessment should be clearly separated from each other using dividers of some sort.

## **Teacher's portfolio**

- The teacher's portfolio, neatly bound in an A-4 file, must be available when moderation of candidates' portfolios takes place.
- The purpose of the teacher's portfolio is to provide a record of the implementation of CASS.
- In order to provide a record of the implementation of CASS the teacher's portfolio must comprise of the following:
  - All assessment 'task' sheets (e.g. tests, project instruction sheets)
  - ♦ Model answers and memoranda for tasks, tests and examinations
  - ♦ The "Summary of candidates' marks" (see page 30a/6) schedule
- When two or more teachers teach the subject, each teacher must hand in his / her own portfolio.

#### Mathematics Formula Sheet (HG and SG) Wiskunde Formuleblad (HG en SG)



# Summary of Assessment Mathematics portfolio HG

(To be filled in by the candidate, controlled by the teacher included as the 1<sup>st</sup> Page of the portfolio)

Cer	ntre Number			Candidate's Examination	on numbe	r		
	Date of submission		Desci	ription of task	Informal Assessment	Tests	Examinations	Mark
eg	31-01-02	Cor	rection item -	- exponents and logs	Х			
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

#### SUMMARY OF MARKS

			M	ark	Total/max	Max.	Final
Alternate	Shorter					10	
Assessment	Longer					30	
Tests	Class					10	
10515	Formal					20	
Examinations	Paper 1					15	
Examinations	Paper 2					15	
FINAL CASS	MARK / 1	100				100	

	Evam No	Nama	Alterna	tte forms	of assess	ment		Clace 7	acte	Formal	Lacto	Evaminati	340	Average
			Shorter	items		Long	er		616 <b>7</b> 1		6167 I	TVAIIIIIA		1 vulue
Date														
Maximum														
1														
2														
3														
4														
5														
9														
7														
8														
6														
10														
11														
12														
13														
14														
15														
16														

An example of a form that gives a Summary of candidates' marks