

**Oxford Cambridge and RSA Examinations**



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**OCR GCSE IN MATHEMATICS C (GRADUATED ASSESSMENT)      J517**

**TEACHER SUPPORT: TEACHERS' GUIDE**

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# 1 INTRODUCTION

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Graduated Assessment is a popular, modular GCSE Mathematics course. Candidates are motivated by the short-term goals and teachers are kept well informed by the grade-specific feedback from OCR.

This guide is intended to answer some of the most common questions regarding the specification. Teachers and Heads of Department are encouraged to keep this document readily available, as it will need to be referred to on a regular basis. It should be read in conjunction with the Approved Specification for J517.

## 1.1 STRUCTURE OF THE COURSE

There are two aspects to the assessment of this course:

- Module tests 50%
- Terminal Paper 50%

This guide will concentrate particularly on the module tests and their administration.



## 2.1 WHICH MODULE TO START ON

Use the grade that you expect the candidate to achieve at GCSE as an indicator to decide where to start a particular class (or individual).

Route	Target Grade
M1, M2	G
M1, M2, M3	G/F
M2, M3, M4	F
M3, M4, M5	E
M4, M5, M6	D
M5, M6, M7	C/D
♠ M6, M7, M8	B/C
♠ M7, M8, M9	A/B
♠ M8, M9, M10	A*/A

## 2.2 TIER INDEPENDENCY

The modules are all tier independent in that the mark from any module can be aggregated at final tier of entry (Higher or Foundation). However, some routes would obviously **not** be sensible. For example, if a candidate is going to be sitting the Higher Terminal then M2, M3, M4 would **not** be an appropriate route to follow.

Those routes marked ♠ in the above table are suitable for candidates expecting to take the Higher Terminal Paper.

## 2.3 LIMITS ON NUMBER OF MODULES THAT CAN BE TAKEN

50% of a candidate's final mark will come from the sum of the **two** best Uniform Scores from **different** modules. Therefore, candidates must sit a **minimum of two different** modules if they are not going to be disadvantaged.

There is no limit on the maximum number of different modules that a candidate can take. Individual unit results will have a shelf-life limited only by that of the Specification.

Candidates **can** sit two (or even three) modules in one session. They would do them consecutively on the morning (or afternoon) of the examination.

## 2.4 MODULE TEST STRUCTURE

Each module test is in two sections, A and B, each lasting for 30 minutes. The entry codes for the modules are B271 to B280 for M1 to M10 respectively.

**Section A** is to be completed **without** a calculator, or any other calculating aid. The Section A scripts are then collected in and **Section B** papers are given out.

The use of a calculator is expected with Section B, and candidates will be disadvantaged if they do not have access to one.

For ease of administration we suggest that candidates keep their calculators under their desks during Section A and simply pick them up after the Section A scripts have been collected in. It is important, however, that invigilators are made aware of this procedure to ensure that there is no malpractice during Section A.

## **2.5 EQUIPMENT**

Simple electronic calculators are sufficient for M1-M5, but for M6 upwards candidates will need a scientific calculator. If candidates wish, they may use graphical calculators, provided of course that they cannot be used for algebraic manipulation or communication with other calculators. Similarly the calculator feature on mobile phones may not be used.

Candidates should have usual geometric instruments available.

Tracing paper can always be used by candidates (to aid with transformations etc) whether or not it is specified on the front of the examination paper.

## 2.6 UNIFORM MARKS

This table shows the Uniform Marks that are available on each module.

200				M10		200	
199				M10		199	
198				M10		198	
197				M10		197	
196				M10		196	
195				M10		195	
194				M10		194	
193				M10		193	
192				M10		192	
191				M10		191	
190				M10		190	
189				M10		189	
188				M10		188	
187				M10		187	
186				M10		186	
185				M10		185	
184				M10		184	
183				M10		183	
182				M10		182	
181				M10		181	
180	A*			M10	A*	180	
179				M9	M10	179	
178				M9	M10	178	
177				M9	M10	177	
176				M9	M10	176	
175				M9	M10	175	
174				M9	M10	174	
173				M9	M10	173	
172				M9	M10	172	
171				M9	M10	171	
170				M9	M10	170	
169				M9	M10	169	
168				M9	M10	168	
167				M9	M10	167	
165				M9	M10	165	
164				M9	M10	164	
163				M9	M10	163	
162				M9	M10	162	
161				M9	M10	161	
160	A			M9	M10	A	160
159				M8	M9		159
158				M8	M9		158
157				M8	M9		157
156				M8	M9		156
155				M8	M9		155
154				M8	M9		154
153				M8	M9		153
152				M8	M9		152
151				M8	M9		151
150				M8	M9		150
149				M8	M9		149
148				M8	M9		148
147				M8	M9		147
146				M8	M9		146
145				M8	M9		145
144				M8	M9		144
143				M8	M9		143
142				M8	M9		142
141				M8	M9		141
140	B			M8	M9	B	140
139				M7	M8		139
138				M7	M8		138
137				M7	M8		137
136				M7	M8		136
135				M7	M8		135
134				M7	M8		134
133				M7	M8		133
132				M7	M8		132
131				M7	M8		131
130				M7	M8		130
129				M7	M8		129
128				M7	M8		128
127				M7	M8		127
126				M7	M8		126
125				M7	M8		125
124				M7	M8		124
123				M7	M8		123
122				M7	M8		122
121				M7	M8		121
120	C			M7	M8	C	120
119				M7			119
118				M7			118
117				M7			117
116				M7			116
115				M7			115
114				M7			114
113				M7			113
112				M7			112
111				M7			111
110				M7			110
109				M7			109
108				M7			108
107				M7			107
106				M7			106
105				M7			105
104				M7			104
103				M7			103
102				M7			102
101				M7			101
100	D			M7		D	100

119						M6		119			
118						M6		118			
117						M6		117			
116						M6		116			
115						M6		115			
114						M6		114			
113						M6		113			
112						M6		112			
111						M6		111			
110						M6		110			
109						M6		109			
108						M6		108			
107						M6		107			
106						M6		106			
105						M6		105			
104						M6		104			
103						M6		103			
102						M6		102			
101						M6		101			
100	D					M6	D	100			
99						M5	M6	99			
98						M5	M6	98			
97						M5	M6	97			
96						M5	M6	96			
95						M5	M6	95			
94						M5	M6	94			
93						M5	M6	93			
92						M5	M6	92			
91						M5	M6	91			
90						M4	M5	M6	90		
89						M4	M5	M6	89		
88						M4	M5	M6	88		
87						M4	M5	M6	87		
86						M4	M5	M6	86		
85						M4	M5	M6	85		
84						M4	M5	M6	84		
83						M4	M5	M6	83		
82						M4	M5	M6	82		
81						M4	M5	M6	81		
80	E					M4	M5	M6	E	80	
79						M3	M4	M5		79	
78						M3	M4	M5		78	
76						M3	M4	M5		76	
75						M3	M4	M5		75	
74						M3	M4	M5		74	
73						M3	M4	M5		73	
72						M3	M4	M5		72	
71						M3	M4	M5		71	
70						M2	M3	M4	M5	70	
69						M2	M3	M4	M5	69	
68						M2	M3	M4	M5	68	
67						M2	M3	M4	M5	67	
66						M2	M3	M4	M5	66	
65						M2	M3	M4	M5	65	
64						M2	M3	M4	M5	64	
63						M2	M3	M4	M5	63	
62						M2	M3	M4	M5	62	
61						M2	M3	M4	M5	61	
60	F					M2	M3	M4	M5	F	60
59						M1	M2	M3	M4		59
58						M1	M2	M3	M4		58
57						M1	M2	M3	M4		57
56						M1	M2	M3	M4		56
55						M1	M2	M3	M4		55
54						M1	M2	M3	M4		54
53						M1	M2	M3	M4		53
52						M1	M2	M3	M4		52
51						M1	M2	M3	M4		51
50						M1	M2	M3	M4		50
49						M1	M2	M3			49
48						M1	M2	M3			48
47						M1	M2	M3			47
46						M1	M2	M3			46
45						M1	M2	M3			45
44						M1	M2	M3			44
43						M1	M2	M3			43
42						M1	M2	M3			42
41						M1	M2	M3			41
40	G					M1	M2	M3		G	40
39						M1	M2				39
38						M1	M2				38
37						M1	M2				37
36						M1	M2				36
35						M1	M2				35
34						M1	M2				34
33						M1	M2				33
32						M1	M2				32
31						M1	M2				31
30						M1	M2				30
29						M1					29
28						M1					28
27						M1					27
26						M1					26
25						M1					25
24						M1					24
23						M1					23
22						M1					22
21						M1					21
20						M1					20
19											19

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### 3 TERMINAL PAPER

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Candidates sit one Terminal Paper at their chosen tier of entry. Each Terminal Paper is split into two sections (A – non-calculator, B – calculator) each lasting for one hour. Candidates' scores on the Terminal Paper are converted into Uniform Marks. The Uniform Marks for each grade are as follows:

Grade	A*	A	B	C	D	E	F	G
UMS	360	320	280	240	200	160	120	80

The maximum Uniform Mark that a candidate can get on the Foundation Terminal Paper is capped to 279 i.e. one mark less than the B mark.

The unit codes for the Terminal Papers are B281 and B282 for Foundation and Higher respectively.

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### 4 CERTIFICATION

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This scheme works in the same way as other modular qualifications. This means that candidates are entered for units during the course and then apply for certification at the end.

For example, a candidate working towards Foundation Tier (Grade E, say) will possibly take M3, M4, M5, and then the Foundation Terminal Paper. Therefore, they will have been entered for the following units (and probably in these sessions):

Title	Unit Code	Session
M3	B273	Jan Y10
M4	B274	Jun Y10
M5	B275	Mar Y11
Foundation Terminal Paper	B281	Jun Y11

To actually aggregate and get a final grade awarded, an entry has to be made under the final certification code (in this case it would be **J517F**). The tier of the Terminal Paper must match the tier of the certification entry. Moreover candidates must sit the Terminal Paper in the certification session. Modules can be entered in earlier sessions.



When certification occurs the two best Uniform Scores from different modules will be added together with the Uniform Scores from the Terminal Paper. This total score will then determine the final grade according to this table:

<b>Grade</b>	A*	A	B	C	D	E	F	G
<b>UMS</b>	700	620	540	460	380	300	220	140

Please note that this table takes account of the fact that candidates will most likely be using a mark from a Year 10 session at aggregation (usually the second best module score). A regression allowance equivalent to one grade on the second best module score will be made.

Therefore the overall grade boundary for a C comes from:

- D on the second best module (UMS = 100)
- C on the best module score (UMS = 120)
- C on the Terminal Paper (UMS = 240)

This ensures that candidates' grades will not suffer as a result of counting the best two module scores.

A few points of clarification:

- Candidates must take the Terminal Paper in the session in which they aggregate.
- Under no circumstances will candidates entered for J517H be awarded a grade other than A\*, A, B, C, D, (E) or U. An exceptional Grade E will be awarded for those narrowly missing Grade D.
- Under no circumstances will candidates entered for J517F be awarded a grade other than C, D, E, F, G or U.

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## 5 RE-SITS

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### 5.1 JANUARY SESSION

From 2010, candidates can be entered for the Foundation and Higher Tier Terminal Papers in January.

#### For GCSE Re-sits

- **Terminals**
  - ✓ The terminal unit **must** be re-sat.
- **Modules**
  - ✓ candidates can carry forward their module marks and/or;
  - ✓ candidates can sit or re-sit some modules in the January session.

Before certification, candidates are permitted two attempts at each module.

After certification, if a candidate wishes to re-sit, they are permitted to take a particular module a third (and fourth) time. The better of the **last two** attempts will be considered in the aggregation.

### 5.2 MAKING ENTRIES FOR GCSE RE-SITS

- Entries for the terminal unit (B281 or B282) and the corresponding aggregation code (J517F or J517H) only are required.
- If the candidate wishes to re-sit any of the modules (B271 – B280), entries should also be made for these.