



The Adaptation of Some Items of Assessment Documentation For Students' Learning in Mathematics For Grades (5–12)

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Contents

Subject	Page
Introduction	3
Definitions	6
Formal Moderation	7
Performance reports and certificates	8
Tools for Continuous Assessment	9
• 4-1 Homework	9
• 4-2 Project	11
• 4-3 Oral work	14
• 4-4 Short Test	15
• 4-5 Final Exam	18
Mark Distribution for the Assessment tools.	21
Appendices	22

Introduction:

Due to the COVID-19 pandemic, the Ministry of Education has taken the decision to adapt the teaching, learning and evaluation methods this academic year 2021/2022 for all subjects and all grades, from 1 to 12 inclusive. Grade 12 students will attend school, in person throughout the year as will some other smaller-sized schools.

Many schools, though not all will employ a blended learning methodology during this period to facilitate teaching and learning. Blended learning is an educational approach in which students learn via electronic and on-line platforms (Google Classroom/ Google Meet), Distance learning, in addition to learning through the more traditional face-to-face teaching methods. As a result, the methods for evaluating and assessing student learning have been adapted.

The Ministry of Education stresses the importance of teacher planning and preparation for implementing the formative and summative assessment tools throughout the academic year 2020/2021. As blended learning methodology is being applied in many schools throughout the Sultanate of Oman, teachers need to carefully plan and prepare assessment tools that align with the teaching methods being employed such as the on-line learning platforms (Google Classroom/ Google Meet), Distance learning through mail, e-mail/ Google Drive, and traditional face-to-face teaching methods.

For teachers to effectively apply the Continuous Assessment (CA) tools, teachers need to refer to the following documents: The list is as follows:

- The Adapted General Document for Evaluating Student Learning for Grades 1 – 12
(Version 2021/2022).
- The General Operational Framework for Schools in Oman for the academic year

(Version 2021/2022).

- The Ministry of Education (MOE) Regulations for E-Learning for the academic year

(Version 2021/2022).

- Teacher Manual (Google classroom)
- E-applications Manual
- Assessment Tools Manual for Google classroom

Electronic Continuous Assessment (CA) Tools:

It is vitally important when implementing electronic (CA) for Grades 1 to 12 inclusive that teachers, supported by their Senior Teacher and/or Regional Supervisor activate the various IT resources such as educational platforms (Google Classroom/ Google Meet) and, (Wordwall or Handwriting Apps) in measuring students' learning outcomes and acquired skills. This could be conducted in parallel by providing feedback for students' formally assigned work.

There are Four important considerations when assessing student learning outcomes:

- Assessment tools and specifications are the same in blended learning, distance learning and face to face learning for all grades (1-12).
- Teachers should be able to apply all the Continuous Assessment (CA) tools electronically.
- Teachers should train students in acquiring the requisite skills and should also provide constructive feedback so that students achieve the intended learning outcomes (ILO's).

- During the time that students are at home, teachers must provide students with tasks that can be assessed through the educational platforms (Google Classroom, Google Meet, Google Drive or other alternative methods such as email or other available Apps such as *WordWall / Handwriting*). Therefore, teachers should plan these activities well in advance to achieve the learning outcomes.

Note:

Schools implementing totally distance learning due to COVID-19 pandemic

- All assessment tools will be implemented according to the Student Assessment Handbook (SAH), 2021-2022.

-In case if some students are not able to activate the platform (Google Classroom or Google Meet) either to receive or send their work, the school can arrange other alternative methods such as email, and/or other available Apps, or the school can arrange specific days for students to come to school to submit their work.

(1) Definitions:

- **Continuous Assessment:** Assessment that is conducted –in schools, by teachers throughout the school year, rather than just at the end. Provides a fairer, more balanced picture of student's attainment. Also, allows the inclusion of skills (e.g. communication) which are difficult (practically) to assess by means of formal testing. It can be used for both formative and summative purposes.
- **Summative Assessment:** Assessment of student learning. Its purpose is to measure and report on standards of learning. Typically done by awarding marks and grades. Also, involves reporting to the Ministry and to parents.
- **Formative Assessment:** Assessment for student's learning. Its purpose is to improve students' learning. Typically done by giving feedback through different tools such as of tests, quizzes, homework, oral work, projects, etc.

THE BENEFITS OF CONTINUOUS ASSESSMENT

The most important ways in which Continuous Assessment (CA) can be beneficial are:

- . It encourages teachers to have good idea about the performance of all their students and to closely observe individual student's on-going progress and development.
- . It, possibly, motivates students to work hard consistently, if they know that their everyday work in class contributes to their report card assessment.

. It is based on a positive view of assessment as a natural part of the teaching learning process.

. It allows assessment of learning outcomes which are, for practical reasons, difficult to assess by means of formal testing.

(2) Formal Moderation:

Moderation is defined as the follow-up process to ensure the proper application of continuous assessment tools, and the credibility of the marks given to students considering the technical standards and specifications contained in the student learning assessment documents. Moderation will be applied in this academic year in accordance with the previous objectives and mechanisms set out in the general document for the evaluation of students' learning, with the developed forms according to the amendments contained in the tools of continuous evaluation of the study material, and in accordance with the precautionary procedures of the progresses of the Corona pandemic (COVID19).

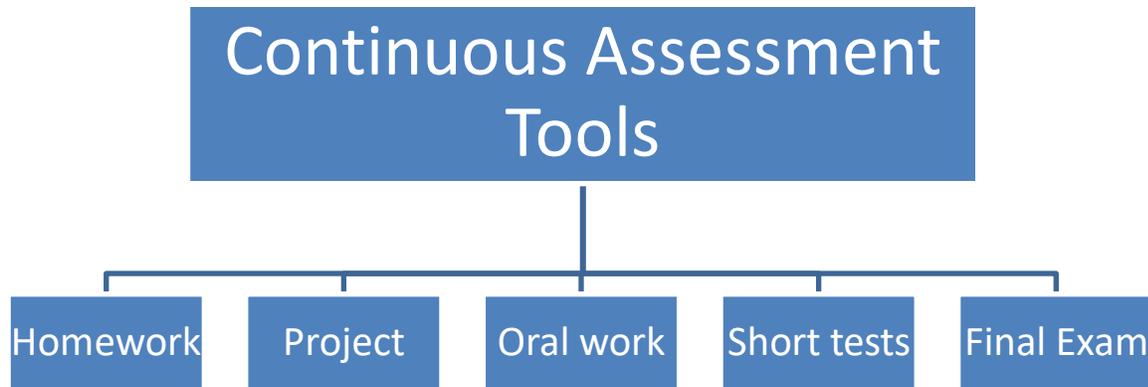
(3) Performance Reports and Certificates:

The student's performance level is monitored continuously throughout the year as follows:

Grades	Report
(5-12)	<p>A descriptive report on the student's performance in the middle of each semester.</p> <p>Student grades revealed at the end of each semester.</p> <p>Successful learners in the 10th grade are awarded a certificate (General Study of Basic Education).</p> <p>Successful learners in the 12th grade are awarded the " General Education Diploma "and its level.</p>

(4) Tools for Continuous Assessment

This Section provides information and explanation regarding the various tools and techniques, which can be used for assessment purposes in Mathematics during the academic year:



• 4-1 Homework:

Defined as one of the assessment tools which are tasks that assigned to students by their teachers to be done in their spare time at school or home. The homework must be planned and the method of performance of the student should be clear through the instructions provided by the teacher ,and the teacher must focus on the role of homework in learning and the appropriate amount of homework for his students , and the correction of the homework should be accompanied by feedback and appropriate guidance to help the student build ,configure and modify his knowledge and skills.

The following table can be used as a model for awarding students' performance to this tool and does not prevent the teacher from preparing other criteria that he deems

appropriate, through which the standard and methodology of the grades awarded are achieved:

Degree	Description of Homework (Standards)
5	<ul style="list-style-type: none"> • Submit Homework on time
4	<ul style="list-style-type: none"> • Solves Homework on an ongoing basis.
3	<ul style="list-style-type: none"> • His answers are correct and in precise steps
2	<ul style="list-style-type: none"> • He can re-resolve the Homework in the educational situation
1	<ul style="list-style-type: none"> • Benefits from feedback
0	

- The student's mark is not monitored on final homework ,but the student is given 5 marks at the end of each period if he/she achieves the five criteria described in the table above in his solution for training homework ,and is given 4 marks if he achieves only four of the standards ... ,And so forth.
- The teacher should ask some questions that show the extent to which the student understands his or her homework solution.
- The student may be assigned homework to solve and resubmit the answer to the virtual class, for example: Attach the homework in the form of a document , presentation, or spreadsheet.
- In each student's portfolio, four samples of homework must be attached.
- The mark of homework is assessed throughout each semester for grades (5-12) according to the following table:

Grades	Number of periods	Homework marks
(5-9)	2	Total 10 marks
(10-12)	2	Average 5 marks

• **4-2 Project:**

School Project is one of the assessment tools that depend on investigation and practical skills to reach scientific results & explanations can be done by one student or more.

We can define that the project passes through some steps:

1. Select a title
2. Determining a plan
3. Find tools/ways
4. Project Execution
5. Evaluating results
6. Writing reports
7. Exposing project

The following criteria should be taken into consideration while preparing the project:

- Assessed once during each semester.
- Achieve the learning outcomes and related to the real-life situations.
- Suitable to students' mental abilities.
- Suitable to parents' abilities especially in the financial side.
- The teacher may offer the students some topics and they may select from them.
- The project has to be as an application.
- Suitable time must be taken into account.
- Can be done under more than one subject if integration is there.
- Safety rules and criteria must be followed.
- Good to give clear instructions to help students.

- Steps of scientific research must be generally accordingly with student level.
- A unified sheet for each project to be marked equally with the same criteria.
- Criteria must be written to be shown when required.
- Should be done under the Supervision of the teacher.
- It can be done by one or a group of (2 – 5) students with clearly specified role for each.
- Teacher discusses with students the project because the oral evaluation gives a clear picture of the effort that suits the student and his/her participation in group work.
- More than one student can choose the same project topic but with different data and handling for each student.
- The student should write a brief report, taking into account the following points:
 - Title of the project
 - Aim or purpose
 - Apparatus and Materials
 - Procedures
 - Answering questions (Observations & Results).

Project Marking Criteria:

Elements	Description	marks
Planning (Writing Aim, Materials & Procedure)	Good & clear planning.	3
	Clear planning but it needs some modification.	2
	There is some planning but it isn't clear.	1
Application (Mathematical processes & modeling)	Work based on precise, good & clear evidences.	4
	Clear work but isn't based on precise evidences.	2-3
	Unclear & imprecise work, with weak evidences	1
Report & answering questions	Good & clear report, excellent answering with logically reasons.	3
	Unclear report in some parts, good answering with some logically reasons.	2
	Unclear report, poor answering & no logically reasons.	1
Total		10

After the project is evaluated, marks will be given according to the following table:

Grades	Project marks
(5-11)	10 marks
۱۲	Not required

• 4-3 Oral work:

Oral work is applied through the teaching and learning process, and through the responses to verbal discussion about an issue or a topic. It is applied usually between two or more persons (between teacher and student or between a group of students or between student and colleague). It includes **dialogues** and **presentations**, considering the followings:

- It must measure the learning outcomes of the pure/applied math syllabi.
- It may include short oral questions that require a specific answer.
- It should be accompanied to the daily teaching practices (during the lessons).
- It may take the form of asking students questions or discussing ideas.
- Targeting, each time, a specific group/level of students if targeting all is not possible.
- Considering learning cognitive levels (knowledge-application-reasoning).

Teachers can take advantage of the following standards to give each student an accurate mark according to his/ her participation during the lessons (teachers can set up their own criteria).

Domain	Description	Marks
Communication (2 marks)	Using the language of mathematics (e.g., symbols, terminology) to express mathematical ideas precisely.	1
	Analyzing and evaluating the mathematical thinking and strategies of others	1
Taxonomy (3 marks)	Giving accurate answers to the questions of knowledge	1
	Giving accurate answers to the questions of the application	1
	Giving accurate answers to the questions of the reasoning	1
Total		5

- The mark of oral work is assessed throughout each semester for grades (5-12) according to the following table:

Grades	Number of periods	Oral work marks
(5-9)	2	Total 10 marks
(10-12)	2	Average 5 marks

- **4-4 Short Test:**

Defined as one of the assessment tools that prepared by the teacher during the Year applied at the end portion of the content. The short test duration for all grades can be at most **one period**. The feedback should be given to the students directly after the short test. The following criteria must be taken into consideration while preparing the short tests:

- There will be **two short tests** per semester for all grades.
- The test grand total must be clearly shown on the student paper.
- An item is the smallest part in a question that can be marked and has only one expected response.

Short Test Specification for Grades (5-9):

- Short test consists of two parts: (Multiple-choice items and extended response items).
- Answering instructions must be provided before each and every item (especially the multiple-choice part).
- The level/type of the given questions must be divided into variant learning levels/types (30% knowing, 50% applying, 20% reasoning)
- Items in the question paper should be arranged ascending order according to level so that easy knowing items come first, ending with hard reasoning items.
- Teachers prepare the answer schemes where the level and marks are shown for each and every item.
- The question paper and its answer key must be prepared for each short test.
- Marks must be as a whole number with or without half only (like 5 and 5.5 are accepted but 5.25 is not accepted).
- More criteria in the next table:

Calculators	<u>Not allowed</u> for grades (5, 6 & 7) students <u>Allowed</u> for grades (8 & 9) students
Multiple-choice items	<ul style="list-style-type: none">• 3 marks in total per test• <u>3 items per test</u> (1 mark each)
Extended response items	<ul style="list-style-type: none">• 12 marks in total per test

Short Test Specification for Grades (١٠-١٢):

- Short test consists of two parts: (Multiple-choice items and extended response items).
- Answering instructions must be provided before each and every item (especially the multiple-choice part).
- The level/type of the given questions must be divided into variant learning levels/types (30% knowing, 50% applying, 20% reasoning).
- Items in the question paper should be arranged ascending order according to level so that easy knowing items come first, ending with hard reasoning items.
- Teachers prepare the answer schemes where the level and marks are shown for each and every item.
- The question paper and its answer key must be prepared for each short test.
- Marks must be as a whole number with or without half only (like 5 and 5.5 are accepted but 5.25 is not accepted).
- More criteria in the next table

Calculators	• <u>Allowed</u>
Multiple-choice items	• 2 marks in total per test • <u>2 items per test</u> (1 mark each)
Extended response items	• 8 marks in total per test

- **4-5 Final Exam**

Defined as one of the assessment tools that are administered at the end of each semester. Final exam is valued according to the following table:

Grade	(5-7)	8 & 9	10 & 11	12
Calculators	Not allowed	Allowed	Allowed	Allowed
Value	40%		60%	70%
Marks	40		60	70
Duration	1h 30min		2h 30min	3h 0min

General Controls and Technical Specifications of The Final Exam Paper for The End of The Academic Year for Grades (5-12):

- The total mark for each item must be clearly shown on the exam question pages.
- A single item measures only one educational objective. On the other hand, one objective can be measured in more than one item with different assessment tools
- The Final exam paper consists of **two parts**: multiple choice questions (**MCOs**) and extended response questions (**EROs**)
- The items in the test question pages for grades (5-10) are arranged according to the level of difficulty so that it begins with low knowledge and ends with high reasoning, not by the type of item, multiple selection, etc.
- The following table shows the distribution of marks for grades (5-12) on final exam paper questions:

Grades		(5-9)	(10-11)	12
Marks	Question 1 (MCQ)	8 (8 items)	12 (12 items)	14 (14 items)
	Question 2 (ERQ)	12	12	14
	Question 3 (ERQ)	10	12	14
	Question 4 (ERQ)	10	12	14
	Question 5 (ERQ)	-	12	14
	TOTAL	40	60	70

The following ratios of assessment items and distribution of marks are considered when the questions are prepared in the final exam paper:

Grades	Marks	Level			Total 100%
		Knowing 30%	Application 50%	Reasoning 20%	
(5-9)		12	20	8	40
(10-11)		18	30	12	60
12		21	35	14	70

- The next table shows the **specifications table form** to be used to prepare the final exam:

<i>(...Book title...)</i>				<i>Grade ...</i>			<i>2021/2022</i>			<i>Semester ...</i>		
Title	Pages	Weight	Marks	Items	Multiple-choice questions 20% (... marks)			Extended-response questions 80% (... marks)				
					Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%		
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
				Mark								
				Q. No.								
TOTAL		1.000										

(5) Mark Distribution for The Assessment Tools.

Assessment Tools	Marks			Remarks
	Grades (5-9)	Grade (10-11)	Grade 12	
Homework	10	5	0	To be assessed consciously using specific criteria assign (5 marks) for each period during the academic year; taking: <ul style="list-style-type: none"> • The total of two periods for grades (5-9) • Average of two periods for grades (10-12)
Project	10	10	-	To be assessed consciously and the total marks distribute using specific criteria and the does not divide among the units Teachers should inform the students about the working scheme and the submission date to assists and record the final mark once.
Oral test	10	5	5	Two oral tests per semester. <ul style="list-style-type: none"> • The total of two periods for grades (5-9) • Average of two periods for grades (10-12)
Short Test	30	20	20	Two short tests per semester.
Final Exam	40	60	70	To be prepared -according to specifications- by the end of each semester: <ul style="list-style-type: none"> • by the school for grades (5-11) • From the Ministry for grade (12)
Total	100	100	100	Total mark by the end of each semester

***Note:** The Total mark for the homework and project does not distribute among the units

(6) Appendices

Content	Page
First Semester Final Exam Specification For Grade 12 (pure)	24
Second Semester Final Exam Specification For Grade 12 (pure)	24
First Semester Final Exam Specification For Grade 12 (applied)	25
Second Semester Final Exam Specification For Grade 12 (applied)	25
First Semester Final Exam Specification For Grade 11 (pure)	26
Second Semester Final Exam Specification For Grade 11 (pure)	27
First Semester Final Exam Specification For Grade 11 (applied)	28
Second Semester Final Exam Specification For Grade 11 (applied)	29
First Semester Final Exam Specification For Grade 10	30
Second Semester Final Exam Specification For Grade 10	31
First Semester Final Exam Specification For Grade 9	32
Second Semester Final Exam Specification For Grade 9	33
First Semester Final Exam Specification For Grade 8 (Maths SMART)	35
Second Semester Final Exam Specification For Grade 8 (Maths SMART)	36
First Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics)	38
Second Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics)	40
First Semester Final Exam Specification For Grade 8 (Oxford International Math)	42
Second Semester Final Exam Specification For Grade 8 (Oxford International Math)	44
First Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics/Hodder)	46
Second Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics/Hodder)	48
First Semester Final Exam Specification For Grade 7 (Maths SMART)	50
Second Semester Final Exam Specification For Grade 7 (Maths SMART)	52
First Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics)	54
Second Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics)	56
First Semester Final Exam Specification For Grade 7 (Oxford International Math)	58
Second Semester Final Exam Specification For Grade 7 (Oxford International Math)	60
First Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics/Hodder)	62
Second Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics/Hodder)	64

Assessment Sheet For Grades (5-9)	66
Assessment Sheet For Grades (10)	67
Assessment Sheet For Grade (11)	68
Assessment Sheet For Grade (12)	69

1st Semester Final Exam Specification For Grade 12 (PURE):

Unit	Title	Multiple-choice		Extended response	Total
		Items	Marks	Marks	
Algebra	Partial fractions	2	2	6	8
Calculus	Differentiation	2	2	9	11
	Differentiation	1	1	7	8
Trigonometry	Trig involving all trig all ratios in all quadrants	4	4	15	19
Integration	Integration	2	2	6	8
	Integration	2	2	6	8
Probability		1	1	7	8
<i>TOTAL</i>		14	14	56	70

2nd Semester Final Exam Specification For Grade 12 (PURE):

Unit	Title	Multiple-choice		Extended response	Total
		Items	Marks	Marks	
Exponents and logs	The function e^x and $\ln x$	3	3	8	11
Calculus	Differentiation	3	3	13	16
	Further differentiation	2	2	9	11
Integration	Integration	3	3	13	16
Statistics	Normal distribution	3	3	13	16
<i>TOTAL</i>		14	14	56	70

1st Semester Final Exam Specification For Grade 12 (APPLIED):

	Title	Multiple-choice		Extended response	Total
		Items	Marks	Marks	
Number and algebra	Sequence and series	3	3	10	13
Financial	Financial mathematics	4	4	18	22
Probability	Probability	4	4	18	22
Logic	Logic	3	3	10	13
<i>TOTAL</i>		14	14	56	70

2nd Semester Final Exam Specification For Grade 12 (APPLIED):

Unit	Title	Multiple-choice		Extended response	Total
		Items	Marks	Marks	
Functions	Exponential and trigonometric functions	4	4	16	20
	More functions	3	3	12	15
Statistics	Two-variable statistics	2	2	11	13
Calculus	Introductory differential calculus	5	5	17	22
<i>TOTAL</i>		14	14	56	70

1st Semester Final Exam Specification For Grade 11 (PURE):

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Algebra, equations and functions	Quadratics (PM1)	2	0.167	10	Mark		1+1		4	4	
					Question No.		Q ₁₊₂		Q ₁₃	Q ₁₄	
	Functions (PM1)	2	0.167	10	Mark	1	1			4	4
					Question No.	Q ₃	Q ₄			Q ₁₅	Q ₁₆
	Algebra (PM2&3)	3	0.25	15	Mark	1	1	1	4+3	2	3
					Question No.	Q ₅	Q ₆	Q ₇	Q ₁₇₊₁₈	Q ₁₉	Q ₂₀
Calculus	Differentiation (PM1)	3	0.25	15	Mark	1	1	1	3	4+5	
					Question No.	Q ₈	Q ₉	Q ₁₀	Q ₂₁	Q ₂₂₊₂₃	
Statistics	Representing of data (P&S1)	2	0.166	10	Mark	1	1			5	3
					Question No.	Q ₁₁	Q ₁₂			Q ₂₄	Q ₂₅
TOTAL		12	1.000	60		4	6	2	14	24	10

2nd Semester Final Exam Specification For Grade 11 (PURE):

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Geometry	Coordinate Geometry (PM1)	1.5	0.125	8	Mark		1		3	4	
					Question No.		Q ₁		Q ₁₂	Q ₁₃	
Trigonometry	Circular Measure and Trigonometry (PM1)	2.5	0.208	12	Mark	1	1+1		3	3	3
					Question No.	Q ₂	Q ₃₊₄		Q ₁₄	Q ₁₅	Q ₁₆
Algebra	Series (PM1)	2	0.167	10	Mark	1	1		4	3	3
					Question No.	Q ₅	Q ₆		Q ₁₇	Q ₁₈	Q ₁₉
Calculus	Integration (PM1)	3	0.25	15	Mark	1	1	1		3+4	4
					Question No.	Q ₇	Q ₈	Q ₉		Q ₂₀₊₂₁	Q ₂₂
Probability	Probability, permutations and combinations (P&S1)	3	0.25	15	Mark	1	1	1	4	3+4	
					Question No.	Q ₁₀	Q ₁₁	Q ₁₂	Q ₂₃	Q ₂₄	
TOTAL		12	1.000	60		4	6	2	14	24	10

1st Semester Final Exam Specification For Grade 11 (APPLIED):

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Number And Algebra	NUMBER SETS AND PROPERITES	1.5	0.115	7	Mark		1		3	3	
					Question No.		Q ₁		Q ₁₃	Q ₁₄	
Measurement	MEASUREMENT	2	0.154	9	Mark	1	1			3	4
					Question No.	Q ₂	Q ₃			Q ₁₅	Q ₁₆
Sets	SETS AND VENN DIAGRAMS	1.5	0.115	7	Mark	1	1			2	3
					Question No.	Q ₄	Q ₅			Q ₁₇	Q ₁₈
Geometry	THE RULE OF PYTHAGORAS	2	0.154	9	Mark	1	1	1	3	3	
					Question No.	Q ₆	Q ₇	Q ₈	Q ₁₉	Q ₂₀	
Statistics	DESCRIPTIVE STATISTICS	3	0.231	14	Mark	1	1		4	4+4	
					Question No.	Q ₉	Q ₁₀		Q ₂₁	Q ₂₂₊₂₃	
Algebra	LINEAR AND EXPONENTIAL ALGEBRA	3	0.231	14	Mark		1	1	4	5	3
					Question No.		Q ₁₁	Q ₁₂	Q ₂₄	Q ₂₅	Q ₂₆
TOTAL		13	1.000	60		4	6	2	14	24	10

2nd Semester Final Exam Specification For Grade 11 (APPLIED):

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Geometry	Coordinate geometry	3	0.214	13	Mark	1	1		3	5	3
					Question No.	Q ₁	Q ₂		Q ₁₂	Q ₁₃	Q ₁₄
Trigonometry	Quadratic algebra	2.5	0.179	10	Mark		1+1		4	4	
					Question No.		Q ₃₊₄		Q ₁₅	Q ₁₆	
Algebra	Function notation and quadratic functions	3	0.214	13	Mark	1	1	1	4	3	3
					Question No.	Q ₅	Q ₆	Q ₇	Q ₁₇	Q ₁₈	Q ₁₉
Calculus	Numerical trigonometry	3	0.214	13	Mark	1	1	1		3+3	4
					Question No.	Q ₈	Q ₉	Q ₁₀		Q ₂₀₊₂₁	Q ₂₂
Probability	Perimeter, area and volume	2.5	0.179	11	Mark	1	1		3	3+3	
					Question No.	Q ₁₁	Q ₁₂		Q ₂₃	Q ₂₄₊₂₅	
TOTAL		14	1.000	60		4	6	2	14	24	10

1st Semester Final Exam Specification For Grade 10:

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Algebra	<ul style="list-style-type: none"> Algebraic indices Solving Equations Linear Programming Sequences 	4	0.286	16	Mark	1	1	1	4	5	4
					Question No.	Q ₁	Q ₂	Q ₃	Q ₁₃	Q ₁₄	Q ₁₅
Number	<ul style="list-style-type: none"> Accuracy Money and Finance Exponential Growth and Decay 	3	0.214	13	Mark		1	1	4	3+4	
					Question No.		Q ₄	Q ₅	Q ₁₆	Q ₁₇₊₁₈	
Geometry	<ul style="list-style-type: none"> Similarity Loci 	3	0.214	13	Mark	1	1+1		4	3	3
					Question No.	Q ₆	Q ₇₊₈		Q ₁₉	Q ₂₀	Q ₂₁
Vector	<ul style="list-style-type: none"> Vectors 	2	0.143	9	Mark	1	1			4	3
					Question No.	Q ₉	Q ₁₀			Q ₂₂	Q ₂₃
Statistics	<ul style="list-style-type: none"> Cumulative Frequency 	2	0.143	9	Mark	1	1		2	5	
					Question No.	Q ₁₁	Q ₁₂		Q ₂₄	Q ₂₅	
TOTAL		14	1.000	60		4	6	2	14	24	10

2nd Semester Final Exam Specification For Grade 10:

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Algebra	<ul style="list-style-type: none"> • Graphs in Practical Situations • Graphs of Functions • Functions 	6	0.429	25	Mark	1	1+1	1	4+3	5+5	4
					Question No.	Q ₁	Q ₂₊₃	Q ₄	Q ₁₃₊₁₄	Q ₁₅₊₁₆	Q ₁₇
Trigonometry	<ul style="list-style-type: none"> • Trigonometry 	2	0.143	9	Mark	1	1			4	3
					Question No.	Q ₅	Q ₆			Q ₁₈	Q ₁₉
Matrices and transformation	<ul style="list-style-type: none"> • Matrices • Transformations 	3	0.214	13	Mark	1	1	1	3+3	4	
					Question No.	Q ₇	Q ₈	Q ₉	Q ₂₀₊₂₁	Q ₂₂	
Probability	<ul style="list-style-type: none"> • Probability of Single Events • Probability of Combined Events 	3	0.214	13	Mark	1	1+1		4	3	3
					Question No.	Q ₁₀	Q ₁₁₊₁₂		Q ₂₃	Q ₂₄	Q ₂₅
TOTAL		14	1.000	60		4	6	2	14	24	10

1st Semester Final Exam Specification For Grade 9:

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Number	<ul style="list-style-type: none"> Indices Real Numbers Proportion Percentages 	5	0.357	14	Mark	1	1		4	4	4
					Question No.	Q ₁	Q ₂		Q ₉	Q ₁₀	Q ₁₁
Algebra	<ul style="list-style-type: none"> Algebraic Manipulation 	3	0.214	9	Mark	1	1		3	4	
					Question No.	Q ₃	Q ₄		Q ₁₂	Q ₁₃	
Co-ordinates Geometry	<ul style="list-style-type: none"> Straight Line Graphs 	2	0.143	6	Mark	1	1			4	
					Question No.	Q ₅	Q ₆			Q ₁₄	
Mensuration	<ul style="list-style-type: none"> Arc Length and Sector Area of the Circle Surface Area and Volume of 3D Shapes Areas and Volumes of Compound Shapes 	4	0.286	11	Mark		1	1	2	4	
					Question No.		Q ₇	Q ₈	Q ₁₅	Q ₁₅	Q ₁₅
TOTAL		14	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 9:

Unit	Title	Weeks	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Number	● Sets	2	0.143	6	Mark	1			2	3	
					Question No.	Q ₁			Q ₉	Q ₁₀	
Algebra	● Linear Equations and Inequalities ● Variation	3	0.214	9	Mark		1			4	4
					Question No.		Q ₂			Q ₁₁	Q ₁₂
Geometry	● Scale drawings ● Symmetry ● Angle Properties	4	0.286	10	Mark	1	1	1		4	3
					Question No.	Q ₃	Q ₄	Q ₅		Q ₁₃	Q ₁₄
Trigonometry	● Bearings ● Trigonometry	2	0.143	6	Mark	1	1		4		
					Question No.	Q ₆	Q ₇		Q ₁₅		
Statistics	● Reading and Displaying Data ● Mean, Median, Mode and Range	3	0.214	9	Mark		1		3	5	
					Question No.		Q ₈		Q ₁₆	Q ₁₇	
TOTAL		14	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 8 (Maths SMART):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 10 (LB 8)	Area and Volume	33	0.098	4	Mark	1				3	
					Question No.						
Unit 11	Percentages	19	0.057	2	Mark					2	
					Question No.						
Unit 12	Coordinate Geometry and Graphs	23	0.068	3	Mark		1		2		
					Question No.						
Unit 13	Ratio and Proportion	18	0.054	2	Mark						2
					Question No.						
Unit 14	Geometrical Construction	38	0.113	5	Mark	1	1			3	
					Question No.						
Unit 15	Transformations	20	0.060	2	Mark				2		
					Question No.						
Unit 16	Handling Data	62	0.185	7	Mark	1	1			6	
					Question No.						
Unit 17	Probability	20	0.060	2	Mark				2		
					Question No.						

Unit 1 (LB 9)	Integers	31	0.092	4	Mark		1				3
					Question No.						
Unit 2	Algebraic Expressions and Linear Equations	35	0.104	5	Mark			1	3		
					Question No.						
Unit 3	Shapes and Solids	18	0.054	2	Mark						2
					Question No.						
Unit 4	Decimals	19	0.057	2	Mark					2	
					Question No.						
<i>TOTAL</i>		336	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 8 (Maths SMART):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 5	Fractions	22	0.078	3	Mark	1				2	
					Question No.						
Unit 6	Mensuration	23	0.082	3	Mark		1			2	
					Question No.						
Unit 7	Trigonometry	34	0.121	5	Mark			1	4		
					Question No.						
Unit 8	Bearings	12	0.043	2	Mark					2	
					Question No.						
Unit 9	Percentages	17	0.060	2	Mark					2	
					Question No.						
Unit 10	Rate, Ratio and Proportion	28	0.100	4	Mark		1				3
					Question No.						
Unit 11	Algebraic Equations	33	0.117	5	Mark		1				4
					Question No.						
Unit 12	Coordinate Geometry and Graphs	16	0.057	2	Mark				2		
					Question No.						

Unit 13	Geometrical Constructions	14	0.050	2	Mark					2	
					Question No.						
Unit 14	Transformations	20	0.071	3	Mark					3	
					Question No.						
Unit 15	Arithmetic Sequences	6	0.021	1	Mark		1				
					Question No.						
Unit 16	Data Handling	46	0.164	7	Mark	1			3	3	
					Question No.						
Unit 17	Probability	10	0.036	1	Mark		1				
					Question No.						
TOTAL		281	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 10 (Book 8)	Processing and presenting data	6	0.046	2	Mark				2		
					Question No.				Q ₉		
Unit 11 (Book 8)	Percentages	8	0.061	2	Mark					2	
					Question No.					Q ₁₀	
Unit 12 (Book 8)	Constructions	7	0.053	2	Mark					2	
					Question No.					Q ₁₀	
Unit 13 (Book 8)	Graphs	9	0.069	3	Mark	1				2	
					Question No.	Q ₁				Q ₁₁	
Unit 14 (Book 8)	Ratio and proportion	6	0.046	2	Mark						2
					Question No.						Q ₁₂
Unit 15 (Book 8)	Probability	8	0.061	2	Mark		1		1		
					Question No.		Q ₂		Q ₁₃		
Unit 16 (Book 8)	Position and movement	5	0.038	2	Mark					2	
					Question No.					Q ₁₄	
Unit 17 (Book 8)	Area ,perimeters and volume	11	0.084	3	Mark						3
					Question No.						Q ₁₅

Unit 18 (Book 8)	Interpreting and discussing results	17	0.129	5	Mark	1	1			3	
					Question No.	Q ₃	Q ₄			Q ₁₆	
Unit 1 (Book 9)	Integers , powers and roots	6	0.046	2	Mark						2
					Question No.					Q ₁₇	
Unit 2 (Book 9)	Sequences and functions	6	0.046	2	Mark				2		
					Question No.				Q ₁₈		
Unit 3 (Book 9)	Place value , ordering and rounding	8	0.061	3	Mark		1		2		
					Question No.		Q ₅		Q ₁₉		
Unit 4 (Book 9)	Length , mass and capacity	6	0.046	2	Mark		1			1	
					Question No.		Q ₆			Q ₂₀	
Unit 5 (Book 9)	Shapes	12	0.092	3	Mark	1				2	
					Question No.	Q ₇				Q ₂₁	
Unit 6 (Book 9)	Planning and collecting data	7	0.053	2	Mark				2		
					Question No.				Q ₂₂		
Unit 7 (Book 9)	Fractions	9	0.069	3	Mark			1		2	
					Question No.			Q ₈		Q ₂₃	
TOTAL		131	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Mathematics):

Unit	Title	Pages	Weight	Marksc	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 8 (Book 9)	Constructions and pythagoras' theorem	7	0.073	3	Mark	1				2	
					Question No.	Q ₁				Q ₉	
Unit 9 (Book 9)	Expressions and formulae	11	0.115	4	Mark		1				3
					Question No.		Q ₂				Q ₁₀
Unit 10 (Book 9)	Processing and presenting data	4	0.042	2	Mark				2		
					Question No.				Q ₁₁		
Unit 11 (Book 9)	Percentages	5	0.052	2	Mark					2	
					Question No.					Q ₁₂	
Unit 12 (Book 9)	Tessellations , transformations and loci	12	0.125	5	Mark		1			4	
					Question No.		Q ₃			Q ₁₃	
Unit 13 (Book 9)	Equations and inequalities	9	0.094	4	Mark			1	3		
					Question No.			Q ₄	Q ₁₄		
Unit 14 (Book 9)	Ratio and proportion	4	0.042	2	Mark				2		
					Question No.				Q ₁₅		
Unit 15 (Book 9)	Area , perimeter and volume	8	0.083	3	Mark		1				2
					Question No.		Q ₅				Q ₁₆

Unit 16 (Book 9)	Probability	5	0.052	2	Mark						2
					Question No.						Q ₁₇
Unit 17 (Book 9)	Bearing and scale drawing	5	0.052	3	Mark	1				2	
					Question No.	Q ₆				Q ₁₈	
Unit 18 (Book 9)	Graphs	10	0.104	4	Mark		1			3	
					Question No.		Q ₇			Q ₁₉	
Unit 19 (Book 9)	Interpreting and discussing data	16	0.167	6	Mark	1			2	3	
					Question No.	Q ₈			Q ₂₀	Q ₂₁	
TOTAL		96	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 8 (Oxford International Math):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
11 (Book 2)	Time and rates of change	8	0.045	2	Mark				2		
					Question No.				Q ₉		
12 (Book 2)	Presenting data and interpreting results	22	0.123	6	Mark		1		5		
					Question No.		Q ₁		Q ₁₀		
13 (Book 2)	Fractions , decimals and percentages	8	0.045	2	Mark					2	
					Question No.					Q ₁₁	
14 (Book 2)	Sequences , functions and graphs	17	0.095	4	Mark	1					3
					Question No.	Q ₂					Q ₁₂
15 (Book 2)	Transformations	15	0.084	3	Mark	1				2	
					Question No.	Q ₃					Q ₁₃
16 (Book 2)	Ratio and proportion	7	0.039	2	Mark						2
					Question No.						Q ₁₄
17 (Book 2)	Area, perimeter and volume	22	0.123	6	Mark		1	1		4	
					Question No.		Q ₄	Q ₅		Q ₁₅	
18 (Book 2)	Probability	9	0.050	2	Mark					2	
					Question No.						Q ₁₆

1 (Book 3)	Fraction and indices	10	0.056	3	Mark		1			2	
					Question No.		Q ₆			Q ₁₇	
2 (Book 3)	Expressions and formulae	16	0.089	3	Mark		1			2	
					Question No.		Q ₇			Q ₁₈	
3 (Book 3)	Shapes and mathematical	16	0.089	3	Mark	1				2	
					Question No.	Q ₈				Q ₁₉	
4 (Book 3)	Number	9	0.050	2	Mark				2		
					Question No.				Q ₂₀		
5 (Book 3)	Measures	7	0.039	2	Mark						2
					Question No.						Q ₂₁
TOTAL		179	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 8 (Oxford):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
6 (Book 3)	Planning, collecting and processing data	11	0.065	3	Mark	1				2	
					Question No.	Q ₁				Q ₉	
7 (Book 3)	Rounding, multiplying and dividing	10	0.059	2	Mark					2	
					Question No.					Q ₁₀	
8 (Book 3)	Equations and inequalities	13	0.077	3	Mark		1			2	
					Question No.		Q ₂			Q ₁₁	
9 (Book 3)	Geometry	23	0.137	6	Mark	1			5		
					Question No.	Q ₃			Q ₁₂		
10 (Book 3)	Mental strategies	5	0.029	2	Mark				2		
					Question No.				Q ₁₃		
11 (Book 3)	Compound measures	12	0.071	3	Mark			1		2	
					Question No.			Q ₄		Q ₁₄	
12 (Book 3)	Presenting data and interpreting results	19	0.113	4	Mark		1			3	
					Question No.		Q ₅			Q ₁₅	
13 (Book 3)	Ration and proportion	10	0.059	2	Mark						2
					Question No.						Q ₁₆

14 (Book 3)	Sequences, function and graphs	20	0.119	4	Mark		1				3
					Question No.		Q ₆				Q ₁₇
15 (Book 3)	Transformations	17	0.101	4	Mark	1				3	
					Question No.	Q ₇				Q ₁₈	
16 (Book 3)	Fractions, decimals and percentages	12	0.071	3	Mark		1			2	
					Question No.		Q ₈			Q ₁₉	
17 (Book 3)	Area, perimeter and volume	10	0.059	2	Mark						2
					Question No.						Q ₂₀
18 (Book 3)	Probability	6	0.036	2	Mark				2		
					Question No.				Q ₂₁		
TOTAL		161	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Maths/Hodder):

<i>Hodder</i>					<i>Grade 8</i>		<i>2021/2022</i>			<i>Semester 1</i>		
Book No.	Chapter	Pages	Weight	Marks	Items	Multiple-choice questions 20% (8 marks)			Extended-response questions 80% (32 marks)			
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%	
2	15	14	0.08	3	Mark					3		
					Q. No.					Q9		
2	16	11	0.06	2	Mark				2			
					Q. No.				Q10			
2	17	7	0.04	2	Mark				2			
					Q. No.				Q11			
2	18	19	0.11	5	Mark	1				4		
					Q. No.	Q1				Q12		
2	19	9	0.05	2	Mark					2		
					Q. No.					Q13		
2	20	12	0.07	3	Mark							3
					Q. No.							Q14
2	22	8	0.05	2	Mark				2			
					Q. No.				Q15			
2	23	6	0.03	1	Mark		1					
					Q. No.		Q2					

2	24	11	0.06	2	Mark				2		
					Q. No.				Q16		
2	25	5	0.03	1	Mark		1				
					Q. No.		Q3				
2	26	5	0.03	1	Mark			1			
					Q. No.			Q4			
2	27	6	0.03	1	Mark	1					
					Q. No.	Q5					
3	1	13	0.07	3	Mark					3	
					Q. No.					Q17	
3	2	17	0.10	4	Mark					4	
					Q. No.					Q18	
3	3	20	0.11	5	Mark				2		3
					Q. No.				Q19		Q20
3	4	5	0.03	1	Mark		1				
					Q. No.		Q6				
3	5	3	0.02	1	Mark	1					
					Q. No.	Q7					
3	6	6	0.03	1	Mark		1				
					Q. No.		Q8				
TOTAL		177	1.000			3	4	1	10	16	6

2nd Semester Final Exam Specification For Grade 8 (Cambridge Checkpoint Maths/Hodder):

<i>Hodder</i>						<i>Grade 8</i>		<i>2021/2022</i>		<i>Semester 2</i>	
Book No.	Chapter	Pages	Weight	Marks	Items	Multiple-choice questions 20% (8 marks)			Extended-response questions 80% (32 marks)		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
3	8	7	0.04	2	Mark				2		
					Q. No.				Q9		
3	9	22	0.13	4	Mark	1				3	
					Q. No.	Q1				Q10	
3	10	7	0.04	2	Mark					2	
					Q. No.					Q11	
3	11	10	0.06	2	Mark				2		
					Q. No.				Q12		
3	12	12	0.08	3	Mark					3	
					Q. No.					Q13	
3	13	4	0.02	1	Mark	1					
					Q. No.	Q2					
3	15	11	0.06	2	Mark				2		
					Q. No.				Q14		
3	16	5	0.03	1	Mark		1				
					Q. No.		Q3				

3	17	13	0.07	3	Mark						3
					Q. No.						Q15
3	18	6	0.03	1	Mark		1				
					Q. No.		Q4				
3	19	4	0.02	1	Mark			1			
					Q. No.			Q5			
3	20	7	0.04	2	Mark				2		
					Q. No.				Q16		
3	22	8	0.05	2	Mark					2	
					Q. No.					Q17	
3	23	17	0.10	4	Mark		1			3	
					Q. No.		Q6			Q18	
3	24	16	0.09	4	Mark		1			3	
					Q. No.		Q7			Q19	
3	25	14	0.08	3	Mark						3
					Q. No.						Q20
3	26	7	0.04	2	Mark				2		
					Q. No.				Q21		
3	27	4	0.02	1	Mark	1					
					Q. No.	Q8					
TOTAL		174	1.000			3	4	1	10	16	6

1st Semester Final Exam Specification For Grade 7 (Maths SMART):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 1	Factors, Multiples and Primes	28	0.096	4	Mark	1				3	
					Question No.						
Unit 2	Integers	10	0.034	1	Mark	1					
					Question No.						
Unit 3	Introduction to Algebra and Equations	26	0.089	4	Mark		1		3		
					Question No.						
Unit 4	Decimals	30	0.103	4	Mark		1				3
					Question No.						
Unit 5	Measurement	13	0.045	2	Mark				2		
					Question No.						
Unit 6	Angles and Their Properties	37	0.127	5	Mark			1		4	
					Question No.						
Unit 7	Data Handling	11	0.038	2	Mark				2		
					Question No.						
Unit 8	Fractions	29	0.099	4	Mark		1			3	
					Question No.						

Unit 9	Terms and Sequences	16	0.055	2	Mark						2
					Question No.						
Unit 10	Shapes and Symmetry	20	0.068	3	Mark	1				2	
					Question No.						
Unit 11	Coordinate Geometry and Graphs	23	0.079	3	Mark		1			2	
					Question No.						
Unit 12	Percentages	15	0.051	2	Mark				2		
					Question No.						
Unit 13	Ratio, Rate and Proportion	11	0.038	2	Mark						2
					Question No.						
Unit 14	Geometrical construction	23	0.079	2	Mark					2	
					Question No.						
TOTAL		292	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 7 (Maths SMART):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 15 (LB 7)	Measuring Time, Area, Perimeter and Volume	35	0.097	4	Mark		1			3	
					Question No.						
Unit 16 (LB 7)	Transformation	22	0.061	2	Mark				2		
					Question No.						
Unit 17 (LB 7)	Data Handling	29	0.081	3	Mark				3		
					Question No.						
Unit 18 (LB 7)	Probability	17	0.047	2	Mark				2		
					Question No.						
Unit 1 (LB 8)	Integers	27	0.075	3	Mark		1				2
					Question No.						
Unit 2	Algebraic Expressions and Equations	36	0.100	4	Mark	1					3
					Question No.						
Unit 3	Angles and Angle Properties	25	0.069	3	Mark			1		2	
					Question No.						
Unit 4	Decimals	46	0.128	5	Mark		1			4	
					Question No.						

Unit 5	Measurement	10	0.028	1	Mark	1					
					Question No.						
Unit 6	Handling Data	31	0.086	4	Mark	1				3	
					Question No.						
Unit 7	Fractions	45	0.125	5	Mark		1			4	
					Question No.						
Unit 8	Shapes and Solids	21	0.058	2	Mark				2		
					Question No.						
Unit 9	Arithmetic Sequences	16	0.044	2	Mark						2
					Question No.						
TOTAL		360	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 1 (Book 7)	Integers	10	0.086	3	Mark	1				2	
					Question No.	Q ₁				Q ₉	
Unit 2 (Book 7)	Sequences , expressions and formulae	10	0.086	3	Mark		1				2
					Question No.		Q ₂				Q ₁₀
Unit 3 (Book 7)	Place value , ordering and rounding	13	0.112	4	Mark	1			3		
					Question No.	Q ₃			Q ₁₁		
Unit 4 (Book 7)	Length ,mass and capacity	5	0.043	2	Mark					2	
					Question No.					Q ₁₂	
Unit 5 (Book 7)	Angles	8	0.069	3	Mark			1		2	
					Question No.			Q ₄		Q ₁₃	
Unit 6 (Book 7)	Planning and collecting data	8	0.069	3	Mark		1		2		
					Question No.		Q ₅		Q ₁₄		
Unit 7 (Book 7)	Fractions	12	0.103	4	Mark		1				3
					Question No.		Q ₆				Q ₁₅
Unit 8 (Book 7)	Symmetry	9	0.078	3	Mark		1		2		
					Question No.		Q ₇		Q ₁₆		

Unit 9 (Book 7)	expressions and equations	5	0.043	2	Mark						2
					Question No.						Q ₁₇
Unit 10 (Book 7)	Average	6	0.052	2	Mark					2	
					Question No.					Q ₁₈	
Unit 11 (Book 7)	Percentages	5	0.043	2	Mark					2	
					Question No.					Q ₁₉	
Unit 12 (Book 7)	construction	7	0.060	3	Mark	1				2	
					Question No.	Q ₈				Q ₂₀	
Unit 13 (Book 7)	Graphs	6	0.052	2	Mark				2		
					Question No.				Q ₂₁		
Unit 14 (Book 7)	Ratio and Proportion	5	0.043	2	Mark					2	
					Question No.					Q ₂₂	
Unit 15 (Book 7)	Time	7	0.060	2	Mark					2	
					Question No.					Q ₂₃	
TOTAL		116	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Mathematics):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
Unit 16 (Book 7)	Probability	7	0.065	2	Mark				2		
					Question No.				Q ₉		
Unit 17 (Book 7)	Position and movement	6	0.056	2	Mark					2	
					Question No.					Q ₁₀	
Unit 18 (Book 7)	Area, Perimeter and Volume	9	0.083	3	Mark		1				2
					Question No.		Q ₁				Q ₁₁
Unit 19 (Book 7)	Interpreting and discussing results	9	0.083	3	Mark	1				2	
					Question No.	Q ₂				Q ₁₂	
Unit 1 (Book 8)	Integers, powers and roots	9	0.083	3	Mark		1		2		
					Question No.		Q ₃		Q ₁₃		
Unit 2 (Book 8)	Sequences, expressions and formulae	11	0.102	5	Mark			1		4	
					Question No.			Q ₄		Q ₁₄	
Unit 3 (Book 8)	Place value , ordering and rounding	11	0.102	5	Mark	1				4	
					Question No.	Q ₅				Q ₁₅	
Unit 4 (Book 8)	Length , mass and capacity	4	0.037	2	Mark						2
					Question No.						Q ₁₆

Unit 5 (Book 8)	Angles	9	0.083	3	Mark	1				2	
					Question No.	Q ₆				Q ₁₇	
Unit 6 (Book 8)	Planning and collecting data	7	0.065	3	Mark		1		2		
					Question No.		Q ₇		Q ₁₈		
Unit 7 (Book 8)	Fractions	11	0.102	5	Mark					2	3
					Question No.					Q ₁₉	Q ₂₀
Unit 8 (Book 8)	Shapes and geometric reasoning	10	0.093	3	Mark				3		
					Question No.				Q ₂₁		
Unit 9 (Book 8)	Simplifying expressions and solving equations	5	0.046	1	Mark		1				
					Question No.		Q ₈				
TOTAL		108	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 7 (Oxford International Math):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
1	Number and calculation 1	25	0.135	5	Mark	1	1				3
					Question No.	Q ₁	Q ₂				Q ₉
2	Expressions	9	0.049	2	Mark				2		
					Question No.				Q ₁₀		
3	Shapes and construction	27	0.146	6	Mark		1	1		4	
					Question No.		Q ₃	Q ₄		Q ₁₁	
4	Number and calculation 2	14	0.076	3	Mark		1		2		
					Question No.		Q ₅		Q ₁₂		
5	Length , mass and capacity	12	0.065	2	Mark						2
					Question No.						Q ₁₃
6	Representing information	11	0.059	2	Mark					2	
					Question No.					Q ₁₄	
7	Fractions	19	0.103	4	Mark		1		3		
					Question No.		Q ₆		Q ₁₅		
8	Equations and formulae	6	0.032	2	Mark						2
					Question No.						Q ₁₆

9	Geometry	15	0.081	3	Mark	1				2	
					Question No.	Q ₇				Q ₁₇	
10	Fractions and decimals	9	0.049	2	Mark				2		
					Question No.				Q ₁₈		
11	Time and rates of change	7	0.038	2	Mark					2	
					Question No.					Q ₁₉	
12	Presenting data and interpreting results	13	0.070	3	Mark	1				2	
					Question No.	Q ₈				Q ₂₀	
13	Fractions, decimals and percentages	8	0.043	2	Mark					2	
					Question No.					Q ₂₁	
14	Sequences, functions and graphs	10	0.054	2	Mark					2	
					Question No.					Q ₂₂	
TOTAL		185	1.000	40		3	4	1	9	16	7

2nd Semester Final Exam Specification For Grade 7 (Oxford International Math):

Unit	Title	Pages	Weight	Marks	Items	Multiple-choice questions 20%			Extended-response questions 80%		
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%
15 (Book 1)	Symmetry and transformations	13	0.081	2	Mark				2		
					Question No.				Q ₉		
16 (Book 1)	Ratio and proportion	8	0.049	2	Mark					2	
					Question No.					Q ₁₀	
17 (Book 1)	Area, perimeter and volume	17	0.106	5	Mark		1			4	
					Question No.		Q ₁			Q ₁₁	
18 (Book 1)	Probability	5	0.031	2	Mark				2		
					Question No.				Q ₁₂		
1 (Book 2)	Number and calculation 1	14	0.087	3	Mark	1				2	
					Question No.	Q ₂				Q ₁₃	
2 (Book 2)	Expressions and functions	8	0.049	3	Mark		1				2
					Question No.		Q ₃				Q ₁₄
3 (Book 2)	Shapes and mathematical drawings	22	0.137	3	Mark	1				2	
					Question No.	Q ₄				Q ₁₅	
4 (Book 2)	Length, mass and capacity	7	0.043	2	Mark					2	
					Question No.					Q ₁₆	

5 (Book 2)	Number and calculation 2	9	0.056	3	Mark						3
					Question No.						Q ₁₇
6 (Book 2)	Planning, collecting and processing data	11	0.068	3	Mark	1				2	
					Question No.	Q ₅				Q ₁₈	
7 (Book 2)	Fractions	12	0.075	3	Mark		1		2		
					Question No.		Q ₆		Q ₁₉		
8 (Book 2)	Expressions, equations and formulae	10	0.062	3	Mark			1			2
					Question No.			Q ₇			Q ₂₀
9 (Book 2)	Geometry	13	0.081	3	Mark				3		
					Question No.				Q ₂₁		
10 (Book 2)	Fractions and decimals	12	0.075	3	Mark		1			2	
					Question No.		Q ₈			Q ₂₂	
TOTAL		161	1.000	40		3	4	1	9	16	7

1st Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Maths/Hodder):

<i>Hodder</i>					<i>Grade 7</i>		<i>2021/2022</i>			<i>Semester 1</i>		
Book No.	Chapter	Pages	Weight	Marks	Items	Multiple-choice questions 20% (8 marks)			Extended-response questions 80% (32 marks)			
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%	
1	1	8	0.05	2	Mark				2			
					Q. No.				Q9			
1	2	5	0.03	1	Mark	1						
					Q. No.	Q1						
1	3	17	0.11	4	Mark			1		3		
					Q. No.			Q2		Q10		
1	4	8	0.05	2	Mark						2	
					Q. No.						Q11	
1	5	9	0.06	2	Mark				2			
					Q. No.				Q12			
1	6	4	0.03	1	Mark		1					
					Q. No.		Q3					
1	8	9	0.06	2	Mark				2			
					Q. No.				Q13			
1	9	11	0.07	3	Mark		1			2		
					Q. No.		Q4			Q14		

1	10	13	0.09	4	Mark	1				3	
					Q. No.	Q5				Q15	
1	11	7	0.05	2	Mark						2
					Q. No.						Q16
1	12	6	0.04	2	Mark				2		
					Q. No.				Q17		
1	13	5	0.03	2	Mark					2	
					Q. No.					Q18	
1	15	17	0.11	4	Mark		1			3	
					Q. No.		Q6			Q19	
1	16	4	0.03	1	Mark		1				
					Q. No.		Q7				
1	17	11	0.07	3	Mark					3	
					Q. No.					Q21	
1	18	7	0.05	2	Mark						2
					Q. No.						Q22
1	19	3	0.03	1	Mark	1					
					Q. No.	Q8					
1	20	6	0.04	2	Mark				2		
					Q. No.				Q23		
TOTAL		150	1.000			3	4	1	10	16	6

2nd Semester Final Exam Specification For Grade 7 (Cambridge Checkpoint Maths/Hodder):

<i>Hodder</i>						<i>Grade 7</i>		<i>2021/2022</i>			<i>Semester 2</i>		
Book No.	Chapter	Pages	Weight	Marks	Items	Multiple-choice questions 20% (8 marks)			Extended-response questions 80% (32 marks)				
						Knowing 30%	Applying 50%	Reasoning 20%	Knowing 30%	Applying 50%	Reasoning 20%		
1	22	7	0.05	2	Mark				2				
					Q. No.				Q9				
1	23	6	0.04	2	Mark					2			
					Q. No.				Q10				
1	24	6	0.04	2	Mark						2		
					Q. No.						Q11		
1	25	5	0.04	2	Mark				2				
					Q. No.				Q12				
1	26	3	0.02	1	Mark	1							
					Q. No.	Q1							
1	27	4	0.03	1	Mark		1						
					Q. No.		Q2						
2	1	10	0.07	3	Mark	1				2			
					Q. No.	Q3				Q13			
2	2	7	0.05	2	Mark						2		
					Q. No.						Q14		

2	3	11	0.08	3	Mark		1		2		
					Q. No.		Q4		Q15		
2	4	8	0.06	2	Mark					2	
					Q. No.					Q16	
2	5	18	0.12	4	Mark		1			3	
					Q. No.		Q5			Q17	
2	6	10	0.07	3	Mark					3	
					Q. No.					Q18	
2	8	10	0.07	3	Mark	1				2	
					Q. No.	Q6				Q19	
2	9	8	0.06	2	Mark				2		
					Q. No.				Q20		
2	10	11	0.08	3	Mark			1	2		
					Q. No.			Q7	Q21		
2	11	7	0.05	2	Mark					2	
					Q. No.					Q22	
2	12	7	0.05	2	Mark						2
					Q. No.						Q23
2	13	4	0.02	1	Mark		1				
					Q. No.		Q8				
TOTAL		142	1.000			3	4	1	10	16	6

Assessment Sheet For Grades (12)

<i>Academic year 2021/2022</i>	<input type="checkbox"/> <i>Pure</i> <input type="checkbox"/> <i>Applied</i>						<i>Grade: 12</i>			<i>Class:</i>	
Names	Continuous assessment tools (40%)									Final Exam	Grand total
	Homework			Oral work			Short tests		Total		
	5	5	Avg	5	5	Avg	10	10	30	70	100