



Newsletter

نشرة توجيهية

Subject: Mathematics

المادة: الرماضيات

Educational Program: Bilingual

البرنامج التعليمي: ثنائي اللغة

Grades: (1-10)

الصفوف: (۱--۱)

Academic Year: 2021\2022

للعام الدراسي: ۲۰۲۲/۲۰۲۱









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الفصل الأول: التوجيهات العامة

Section (1): General Guidelines







(١): النسخة العربية

على جميع المدارس الخاصة المطبقة لبرنامج ثنائي اللغة الإلتزام بجميع التعليمات الواردة في الجدول أدناه:

التعليمات	الجحال
 الإلتزام باختيار أحد المصادر التعليمية الأساسية المعتمدة من قبل الدائرة في هذه النشرة التوجيهية . الإلتزام بتوفير جميع المكونات الأساسية للمصادر التعليمية المختارة، بالنسبة لكل طالب ولكل معلم، والموضحة في الفصول القادمة من هذه النشرة التوجيهية . الإلتزام بتوفير نسخ كافية من الكتب وغيرها من المصادر التعليمية، لطلابها ومعلميها قبل وقت كاف من بداية العام الدراسي . الإلتزام بتوفير نسخ أصلية من المصادر التعليمية الأساسية التي تم اختيارها للتطبيق . الإلتزام بتوفير نسخ أصلية من المصادر التعليمية الأساسية المعتمدة سيسمح بإستخدامها في العام الدراسي ٢٠٢٧/٢٠٢١ فقط و توجد بعض السلاسل ضمن قائمة السلسل التعليمية الأساسية المعتمدة سيسمح بإستخدامها في العام الدراسي اللاحق لآخر عام دراسي، تمت الإشارة إليها بشكل واضح أسفل قائمة المصادر المعتمدة ، ولن يسمح بإستخدامها في العام الدراسي اللاحق توجد مكونات إضافية غير إلزامية لبعض السلاسل المعتمدة في هذه النشرة ، مثل كتب المراجعة، ومصادر داعمة للتقويم المستمر والتقويم الخراسي، وكتب بناء المهارات لدى الطلاب، وكتب التحدي للطلبة المتميزين، ووسائل تعليمية وغيرها من المصادر الإثرائية المعنهج الدراسي، وللمدرسة الاطلاع عليها من خلال مواقع دور النشر، ولحا الحربة في توفيرها للمعلمين ولأولياء الأمور وللطلبة، بشرطأن يتم الإلتزام بالمعايير المعتمدة لاختيار المصادر الإثرائية، والتي تستخدم بغرض دعم تعليق المنهج بشكل أفضل . 	اختيار وتوفير السلاسل التعليمية والكتب الدراسية الأساسية
 المرحلة (١-٨): الإلتزام بتحقيق الأهداف الواردة في السلاسل التعليمية المعتمدة، وذلك خلال الفصلين الدراسيين الأول والثاني في كل صف دراسي، بناء على الوحدات المحددة في بند "توزيع المحتوى/المخرجات التعليمية على الفصلين الدراسيين ". برجاء مراجعة الفصلين الثاني والثالث من هذه النشرة التوجيهية. المرحلة (٩-١٠): الإلتزام بتحقيق الأهداف الواردة في الفصل الرابع من هذه النشرة التوجيهية. ملاحظة هامة: ضرورة إلتزام المدارس بتفعيل الدروس المتعلقة بالنقود في الصفوف (١-٦) باستبدال العملة الأجنبية بالعملة العمانية (باستخدام نماذج ورقية مغلفة حراريا للفئات النقدية العمانية المختلفة). 	الأهداف





التعليمات	الججال
 مرحلة (١-٦): الإلتزام بتوفير الوسائل التعليمية المذكورة في دليل المعلم للسلسلة الأساسية التي قامت المدرسة باختيارها . مرحلة (٧-١٠): الإلتزام بتوفير الوسائل التعليمية المذكورة في الفصلين الثالث والرابع من هذه النشرة التوجيهية . الإلتزام بتسهيل عملية نسخ أوراق العمل من قبل المعلمين، وذلك بتوفير المدرسة للأوراق وآلات التصوير وأجهزة الحاسب الآلي وأجهزة العرض وغيرها من المستلزمات، إذ أن السلاسل التعليمية المعتمدة تنطلب ذلك لتنفيذها بالصورة المطلوبة . 	الوسائل التعليمية
المصادر الداعمة للمعلم " ويعنى بها: السلاسل التعليمية والمصادر التي تدعم المعلم في تدريسه للمنهج، وهي حق لكل معلم، ويجب على المدرسة أن تلزم بتوفير نسخة واحدة على الأقل في المدرسة من المصادر المحددة في بند "المصادر الداعمة للمعلم"، حيث تكمن أهمية هذه المصادر في توفير أنشطة إضافية وأسئلة متنوعة، وأفكار تدريسية بديلة يمكن الاستعانة بها لتحقيق أهداف السلسلة الأساسية، وعند إعداد محتلف أنواع الاختبارات، وغيرها من أوجه الاستفادة، مع الحرص على عدم نسخ محتوياتها إن لم تكن من المصادر المصممة للنسخ بدون الحصول على إذن رسمي من دار النشر المعنية بإنتاج هذه المصادر.	المصادر الداعمة للمعلم
 الإلتزام بتدريب المعلمين - التدريب الذي يتعلق باستخدام الكتب الدراسية والمصادر التعليمية المعتمدة - ويجب أن يكون هذا التدريب ضمن خطة المدرسة للإنماء المهني، والمدرسة الخاصة هي الجهة المعنية بالتنسيق مع دور النشر وغيرها من الجهات التعليمية حول توفير البرامج التدريبية لمعلميها حسب الحاجة. 	التدريب
 يأمل المختصون في قسم برامج المدارس الخاصة أن تقوم المدارس الخاصة بإرسال أية ملاحظات حول ما تم ذكره في هذه النشرة التوجيهية أو حول محتوى المصادر التعليمية المعتمدة أو أية مقترحات تطويرية، وسواء كان ذلك من قبل المعلمين أو من قبل الإدارات المدرسية، حتى يتسنى لأعضاء المناهج بالقسم المذكور الإلمام بها، وعلاح أية إشكاليات تتعلق بهذا الجانب. لأعضاء المناهج بالقسم المذكور الإلمام بها، وعلاح أية إشكاليات تتعلق بهذا الجانب. لتواصل/على البريد الإلكتروني: epc.ps@moe.om 	التغذية الراجعة





(2): English Version

Schools **implementing the Bilingual Program** must follow all of the instructions below:

Area	Instructions
	To select and use essential resources from the approved titles in this newsletter.
	 To provide all of the essential components of the resources for students and teachers.
_	• To order sufficient quantities of the materials for teachers and students before the beginning
isior	of the academic year. Schools are responsible for any late delivery of their orders.
Prov	To provide original copies of the selected resources.
and I	Important Note:
s Selection	• There are some main series approved for the year Y · Y Y / Y · Y Y only and will not be allowed to be used in the following year Y · Y Y / Y · Y Y. This is clearly indicated in the notes
ırce	column in the lists.
Essential Resources Selection and Provision	• For some approved titles, there are additional materials available, such as revision guides, continuous assessment resources, skills builder booklets, challenging booklets, digital resource and more. It is recommended that all schools visit the publishing houses'
Ess	websites in order to provide the extra resources for their students, teachers and parents
	(taking to account the criteria which is approved from (MOE) to select supplementary
	materials).
	o Grades (1-8): To implement the outcomes mentioned in the selected approved resources, and
	to distribute the content for two semesters according to the section "Content/Learning
	Outcomes Distribution", in both chapters 2 and 3 in this newsletter.
nes	o Grades (9-10): To implement the outcomes mentioned in the section "Learning Outcomes
Outcomes	Distribution" in chapter 4 of this newsletter.
Ou	Important Note:
	• When teaching the concept of currency and money, in grades (1-6) teachers should replace the foreign currency with Omani currency.





Area	Instructions
	o Grades (1-6): To provide and implement the teaching aids and the ancillary materials which
gp	are prescribed within the chosen approved resources.
PO N	o Grades (7-10): To provide and implement the teaching aids which are specified in the
Feaching Aids	"Teaching Aids" section at chapters 3 and 4 within this newsletter.
Tea	o All grades: To provide paper, photocopiers, laptops, projectors and other consumable
	materials that will be required in using the approved resources.
Ses	o "Teachers' Supplementary Resources" are those materials which assist the teaching and
s, our	learning process. Schools should provide their subject teachers with those resources in order
Teachers' port Reso	to provide their students extra-curricula activities, various questions and new teaching ideas. In
reac port	addition, those resources can suport teachers in the implementation of the compulsory
Teachers' Support Resources	resources, preparing worksheets and writing exam papers (with the consideration of copyright).
118	Teacher training related to the use of the approved course-books or learning resources should
Training	be part of all schools, commitment to the professional development of their teachers and should
Tr	be made available to teachers by the schools, as required.
	o The Curriculum Specialists at the Educational Programs and Curriculum Department
	encourage schools to send feedback regarding the newsletter, approved resources, printing
ack	errors or any pertinent suggestions from teachers, as well as from administrators. Such
Feedback	feedback supports the department in future reforms and to better meet students' and
	schools' needs.
	❖ Please contact us at the e-mail: epc.ps@moe.om





الفصل الثاني: المرحلة الدراسية (١-٦)

Section (2): Grades (1-6)







فهرسالفصلالثاني الصفوف(۱–٦)

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السلاسل الأساسية المعتمدة ومكوناتها الإلزامية (١-٦)

List of Approved Titles and Essential Components (1-6)*

	Titles	Publisher	Components	Notes	
	Cambridge Drimony	Marshall	Pupil's Book		
) (Cambridge Primary MATHS	Cavendish	Activity Book	Year of Publication (2020)	
	MATIIS	Education	Teacher's Guide		
	May Matha	Maamillan	Student Book	Extra resources available	
2	Max Maths	Macmillan Education	Workbook	Please visit the website	
	Primary	Education	Teacher's Guide	New (2018)	
			Student's Book		
3	Let's Start!	Vector	Workbook	Year of Publication (2019)	
			Teacher's Pack		
	Collins		Student's Book	Extra resources available	
4	International	Collins	Workbook	Please visit the website	
	Primary Maths		Teacher's Guide	r lease visit the website	
		Alston	Textbook (A&B)		
5	Top Maths	Top Maths Publishing	Workbook (A&B)	New Edition	
		House	Teacher's Guide (A&B)		
	Cambridge Primary	Cambridge	Learner's Book	Extra resources available	
6	Mathematics	Cambridge University Press	Teacher's Resource with (CD)	Please visit the website	
	iviauiciliaucs		Games Book	Tiease visit the website	
	Hodder Cambridge	Hodder	Learner's Book		
7	Primary	Primary Education	Workbook	<u></u>	
	Mathematics		Teacher's Pack		

*بعض السلاسل التعليمية في هذه القائمة ستكون معتمدة للتطبيق في العام الدراسي ٢١ ، ٢٠٢٠ ٢م فقط وسيتم استبدالها بالنسخ المحدثه في العام الدراسي ٢١ ، ٢٣/٢ ، ٢م فيرجى عدم شراء نسخ زائدة منها.

*Some of the main resources in this list are approved only for the academic year 2021/2022 and will be substituted with their new editions in the academic year 2022/2023. So please do not buy extra copies of these resources.





قوائم ال ISBN لمكونات السلاسل المعتمدة (١-٦)

ISBN Lists of Approved Essential Components (1-6)

1. Marshall Cavendish: Cambridge Primary MATHS

Grade	Component	ISBN	Notes	Book Cover
	Pupil's Book	9789814736756	For student	
1	Activity Book	9789814736787	For student	
	Teacher's Guide	9789814736794	For teacher	
	Pupil's Book	9789814736770	For student	IIC.
2	Activity Book	9789814736817	For student	1 1
	Teacher's Guide	9789814736824	For teacher	
	Pupil's Book	9789814736718	For student	
3	Activity Book	9789814736725	For student	Sandal Committee
	Teacher's Guide	9789814736749	For teacher	MATHS
	Pupil's Book	9789813163720	For student	10
4	Activity Book	9789813163737	For student	
	Teacher's Guide	9789813163744	For teacher	
	Pupil's Book	9789813163751	For student	Constitute to Speed State Active Colomo State
5	Activity Book	9789813163768	For student	WCMMOOK.
	Teacher's Guide	9789813163775	For teacher	
6	Pupil's Book	9789813163782	For student	
	Activity Book	9789813163799	For student	
	Teacher's Guide	9789813163805	For teacher	

2. Max Maths Primary

Grade	Component	ISBN	Notes	Book Cover
	Student Book 1	9781380008749	For student	
1	Workbook 1	9781380017741	For student	
	Teacher's Guide 1	9781380017758	For teacher	
	Student Book 2	9781380012647	For student	The state of the s
2	Workbook 2	9781380017789	For student	max maths primary
	Teacher's Guide 2	9781380017796	For teacher	A SINGAPORE APPROACH
	Student Book 3	9781380012654	For student	
3	Workbook 3	9781380017826	For student	2
	Teacher's Guide 3	9781380017833	For teacher	
	Student Book 4	9781380012661	For student	
4	Workbook 4	9781380017864	For student	
	Teacher's Guide 4	9781380017871	For teacher	That an Ban
	Student Book 5	9781380012678	For student	ALICE HANSEN DANIEL COLE
5	Workbook 5	9781380017901	For student	TONY COTTON OR SERINDERJEET KAUR
	Teacher's Guide 5	9781380017918	For teacher	
	Student Book 6	9781380012692	For student	
6	Workbook 6	9781380017949	For student	
	Teacher's Guide 6	9781380017956	For teacher	





3. Let's Start!

Grade	Component	ISBN	Notes	Book Cover
	Student's Book	9786185305291	For student	vector 😿
1	Workbook	9786185305307	For student	lette Startl
	Teacher's Pack	9786185305314	For teacher	Maths 1
	Student's Book	9786185305345	For student	3
2	Workbook	9786185305352	For student	
	Teacher's Pack	9786185305369	For teacher	
	Student's Book	9786185305376	For student	
3	Workbook	9786185305383	For student	San January Brade
	Teacher's Pack	9786185305390	For teacher	Sidden's Book
	Student's Book	9786185305406	For student	vector 💇
4	Workbook	9786185305413	For student	Date Statt
	Teacher's Pack	9786185305420	For teacher	Maths 6
5	Student's Book	9786185305444	For student	$\left(\frac{k}{5} = k + 5\right)$
	Workbook	9786185305451	For student	
	Teacher's Pack	9786185305468	For teacher	
	Student's Book	9786185305475	For student	
6	Workbook	9786185305482	For student	Student's Book
	Teacher's Pack	9786185305499	For teacher	

4. Collins International Primary Maths

Grade	Component	ISBN	Notes	Book Cover
	Student Book 1	9780008159795	For student	
1	Workbook 1	9780008159801	For student	
	Teacher's Guide 1	9780008159788	For teacher	
	Student Book 2	9780008159849	For student	
2	Workbook 2	9780008159856	For student	
	Teacher's Guide 2	9780008159832	For teacher	Collins
	Student Book 3	9780008159894	For student	PRIMARY MATHS Student's Book 1
3	Workbook 3	9780008159900	For student	Management State of Control of Co
	Teacher's Guide 3	9780008159887	For teacher	
	Student Book 4	9780008159948	For student	
4	Workbook 4	9780008159955	For student	
	Teacher's Guide 4	9780008159931	For teacher	
	Student Book 5	9780008159993	For student	
5	Workbook 5	9780008160005	For student	
	Teacher's Guide 5	9780008159986	For teacher	
	Student Book 6	9780008160043	For student	
6	Workbook 6	9780008160050	For student	
	Teacher's Guide 6	9780008160036	For teacher	

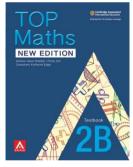


(۰۰)، فبرایر/۲۰۲۰، نموذج رئیسي (3) رمه) عبرير (مهم) المجريير (مهم) المجرية الفرة توجيهية عملية اعتماد المصادر التعليمية الأساسية للبرنامجين احادي اللغة وثناني اللغة في المدارس الخاصة



5. TOP Maths

Grade	Component	ISBN	Notes	Book Cover
	Textbook 1A	9789813180017	For student	
	Workbook 1A	9789813180031	For student	
1	Teacher's Guide 1A	9789813181106(online)	For teacher	
1	Textbook 1B	9789813180024	For student	
	Workbook 1B	9789813180048	For student	
	Teacher's Guide 1B	9789813181113(online)	For teacher	
	Textbook 2A	9789813180079	For student	
	Workbook 2A	9789813180093	For student	
2	Teacher's Guide 2A	9789813181120(online)	For teacher	
2	Textbook 2B	9789813180086	For student	
	Workbook 2B	9789813180109	For student	TOP SCAME LINE
	Teacher's Guide 2B	9789813181137(online)	For teacher	Maths
	Textbook 3A	9789813180130	For student	NEW EDITION
	Workbook 3A	9789813180154	For student	Companie Kaliforni Bagai
3	Teacher's Guide 3A	9789813181144(online)	For teacher	
3	Textbook 3B	9789813180147	For student	
	Workbook 3B	9789813180161	For student	21 Lax
	Teacher's Guide 3B	9789813181205(online)	For teacher	
	Textbook 4A	9789813180192	For student	
	Workbook 4A	9789813180215	For student	Gambridge Associators Sedemational Education Endemation 1d collaborators
4	Teacher's Guide 4A	9789813181212(online)	For teacher	Maths
4	Textbook 4B	9789813180208	For student	NEW EDITION
	Workbook 4B	9789813180222	For student	Consultant: Katherine Edgar
	Teacher's Guide 4B	9789813181229(online)	For teacher	
	Textbook 5A	9789813180253	For student	
	Workbook 5A	9789813180277	For student	Textbook Textbook
5	Teacher's Guide 5A	9789813181236(online)	For teacher	
3	Textbook 5B	9789813180260	For student	ANATON
	Workbook 5B	9789813180284	For student	
	Teacher's Guide 5B	9789813181243(online)	For teacher	
	Textbook 6A	9789813180314	For student	
	Workbook 6A	9789813180338	For student	
	Teacher's Guide 6A	9789813181281 (online)	For teacher	
6	Textbook 6B	9789813180321	For student	
	Workbook 6B	9789813180345	For student	
	Teacher's Guide 6B	9789813181298(online)	For teacher	







6. Cambridge Primary Mathematics

Grade	Component	ISBN	Notes	Book Cover
	Stage 1 Learner's Book	9781107631311	For student	
1	Stage 1 Teacher's Resource with CD-ROM	9781107656833	For teacher	
	Stage 1 Games Book with CD-ROM	9781107646407	For teacher	
	Stage 2 Learner's Book	9781107615823	For student	
2	Stage 2 Teacher's Resource with CD-ROM	9781107640733	For teacher	
	Stage 2 Games Book with CD-ROM	9781107623491	For teacher	CAMBRIDGE SCAMBRIDGE
	Stage 3 Learner's Book	9781107667679	For student	CAMBRIDGE PRIMARY Mathematics
3	Stage 3 Teacher's Resource with CD-ROM	9781107668898	For teacher	Learner's Book
	Stage 3 Games Book with CD-ROM	9781107694019	For teacher	
	Stage 4 Learner's Book	9781107662698	For student	
4	Stage 4 Teacher's Resource with CD-ROM	9781107692947	For teacher	The second second
	Stage 4 Games Book with CD-ROM	9781107685420	For teacher	
	Stage 5 Learner's Book	9781107638228	For student	Primary William Cherni Misseley and Jonet Rees
5	Stage 5 Teacher's Resource with CD-ROM	9781107658547	For teacher	
	Stage 5 Games Book with CD-ROM	9781107614741	For teacher	
	Stage 6 Learner's Book	9781107618596	For student	
6	Stage 6 Teacher's Resource with CD-ROM	9781107694361	For teacher	
	Stage 6 Games Book with CD-ROM	9781107667815	For teacher	

7. Hodder Cambridge Primary Mathematics

Grade	Component	ISBN	Notes	Book Cover
	Learner's Book	9781471884313	For student	
1	Workbook	9781471884566	For student	
	Teacher's Pack(digital copy)	9781471884443	For teacher	
	Learner's Book	9781471884337	For student	
2	Workbook	9781471884597	For student	
	Teacher's Pack(digital copy)	9781471884467	For teacher	Combridge Primary
	Learner's Book	9781471884368	For student	Hodder Cambridge Primary
3	Workbook	9781471884610	For student	Maths
	Teacher's Pack(digital copy)	9781471884481	For teacher	Learner's Book
	Learner's Book	9781471884375	For student	
4	Workbook	9781471884634	For student	
	Teacher's Pack(digital copy)	9781471884504	For teacher	Stoge 1 Paul Wrangles Series editors: Wile Askew and Poul Broadbent
	Learner's Book	9781471884405	For student	6) HODDER
5	Workbook	9781471884658	For student	
	Teacher's Pack	9781471884528	For teacher	
	Learner's Book	9781471884429	For student	
6	Workbook	9781471884672	For student	
	Teacher's Pack(digital copy)	9781471884542	For teacher	





المصادر الداعمة للمعلم (١-٦)

Teachers' Supplementary Resources (1-6)

	Name of the Resource	ISBN
1	Ready to Go Lessons for Maths	Hodder Education
2	السلاسل المعتمدة في الصفحة (١٠) للمعلم، والتي لم تختارها المدرسة Provide at least 1 additional copy of a different title from the appr	

"Ready to Go Lessons for Maths"

Component	ISBN	Book Cover
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توزيع المحتوى على الفصلين الدراسيين للصفين (١-٦)

Content Distribution of Grades (1-6)

1. Cambridge Primary MATHS (Marshall Cavendish)

Grade	Semester 1	Semester 2
	Unit 1: Numbers 0 to 10	Unit 10: Numbers 10 to 20
	Unit 2: Naming Position	Unit 11: Addition and Subtraction within
	Unit 3: Length and Mass	20
	Unit 4: Number Pairs	Unit 12: More on Length and Mass
	Unit 5: Addition Within 10	Unit 13: Time
Oma	Unit 6:Subtraction within 10	Unit 14: Graphs
One	Unit 7: 2D Shapes	Unit 15: Doubles and Halves
	Unit 8: 3D Shapes	Unit 16: Sharing
	Unit 9: Making 10	Unit 17: Number to 100
		Unit 18: Money
		Unit 19: Capacity
		Unit 20: Handling Information
	Unit 1: Numbers to 100	Unit 11: Mass
	Unit 2: More About Number 100	Unit 12: Capacity and Volume
	Unit 3: 2D Shapes	Unit 13: Data handling
	Unit 4: 3D Shapes	Unit 14: Division
	Unit 5: Addition with 100	Unit 15: Dividing by 2 and 3
Two	Unit 6: Subtraction with 100	Unit 16: Dividing by 4, 5 and 10
	Unit 7: Length	Unit 17: Time, Days and Months
	Unit 8: Multiplication	Unit 18: Doubles and Halves
	Unit 9: Multiplying by 2, 5 and 10	Unit 19: Halves and Quarters
	Unit 10: Multiplying by 3 and 4	Unit 20: Angles and Movement
		Unit 21: Money
	Unit 1: Numbers up to 1000	Unit 9: Mass
	Unit 2: More About Numbers	Unit 10: Capacity
	Unit 3: 2D Shapes and 3D Shapes	Unit 11: Symmetry
	Unit 4: Addition and Subtraction within	Unit 12: Time and Data
(IVI)	1000	Unit 13: Number Crunching
Three	Unit 5: word Problem	Unit 14: : Data handling
	Unit 6: Length	Unit 15: Fractions Unit 16: More About Fractions
	Unit 7: Multiplication Unit 8: Division	
	Unit 8: Division	Unit 17: Money
		Unit 18: Right Angle Unit 19:Position and Movement
	Unit 1: Numbers up to 100000	
	Unit 2: More About Numbers	Unit 10: From 2D Shapes to 3D Shapes Unit 11: Decimals
	Unit 2: More About Numbers Unit 3: Addition and subtraction	Unit 12: Length, mass and Capacity
	Unit 4: Time	Unit 13: Angle, Direction and Position
Four	Unit 4: Time Unit 5: Multiplication	Unit 14: Fractions
	Unit 6: Division	Unit 15: Mixed Number
	Unit 7: Pictograms and Bar Charts With	Unit 16: More About Fractions
	Scales	Unit 17: Perimeter and Area
	Douton	ome 17. I crimeter and Area





	Unit 8: Number Crunching	Unit 18: Handling data
	Unit 9: Negative Numbers	
	Unit 1: Numbers up to 999 9999	Unit 10: : Data handling
	Unit 2: Addition and subtraction	Unit 11: Decimals
	Unit 3: Angle	Unit 12: Adding, Subtracting and
	Unit 4: Line and Shapes	Multplying Decimals
	Unit 5: Multiplication and Division	Unit 13: More on Measurement
Five	Unit 6:Factors, Multiples and Square	Unit 14: Mixed Number and Improper
rive	Number	Fracation
	Unit 7: Time	Unit 15: Percentages
	Unit 8: Number Crunching	Unit 16: Ratio
	Unit 9: More About Numbers	Unit 17: Symmetry and Triangles
		Unit 18:Translation and Refletion
		Unit 19: Area and perimeter
	Unit 1:Whole Numbers	Unit 9: Mass and Volume
	Unit 2: Factors, Multiples and Prime	Unit 10: Data Handling
	Number	Unit 11: Perimeter and area
	Unit 3: Shapes	Unit 12: Time Zones
	Unit 4: Operation With Whole Numbers	Unit 13: Fracation, Mixed Number and
Six	Unit 5: Length	Decimals
	Unit 6: Time	Unit 14: Percentages
	Unit 7: More About Numbers	Unit 15: Angle
	Unit 8: Operation With Decimals	Unit 16: Transforming Shapes
		Unit 17: Ratio and Proportion
		Unit 18: Metric and Imperial Measures

2. Max Maths Primary

Grade	Semester 1	Semester 2
	Unit 1: Numbers up to 20	Unit 4: Shapes and geometric reasoning
	Unit 2: Addition to 20	Unit 5: Length
	Unit 3: Subtraction within 20	Unit 6: Mass
One		Unit 7: Capacity
		Unit 8: Time
		Unit 9: Money
		Unit 10: Data handling
	Unit 1: Numbers to 100	Unit 6: Division
	Unit 2: Addition	Unit 7: Fractions
	Unit 3: Subtraction	Unit 8: Length
	Unit 4: 2D and 3D shapes	Unit 9: Mass
Two	Unit 5: Multiplication	Unit 10: Volume
		Unit 11: Money
		Unit 12: Time
		Unit 13: Position and movement
		Unit 14: Data handling
	Unit 1: Numbers up to 1000	Unit 7: Multiplication
Three	Unit 2: Addition	Unit 8: Division
	Unit 3: Subtraction	Unit 9: Length, mass and volume





	Unit 4: Fractions	Unit 10: Time
	Unit 5: Shapes and space	Unit 11: Position and movement
	Unit 6: Data handling	
	Unit 1: Numbers up to 10000	Unit 7: Time
	Unit 2: Addition and subtraction	Unit 8: Fractions
Four	Unit 3: Position and movement	Unit 9: Geometry
rour	Unit 4: Multiplication	Unit 10: Decimals
	Unit 5: Division	Unit 11: Measures: length, perimeter and
	Unit 6: Handling data	area, mass and volume
	Unit 1: Numbers up to 1000000	Unit 6: Area and perimeter
	Unit 2: Addition and subtraction	Unit 7: Time
	Unit 3: Geometry	Unit 8: Fractions
Five	Unit 4: Multiplication	Unit 9: Decimals
rive	Unit 5: Division	Unit 10: Percentages
		Unit 11: Length, mass and volume
		Unit 12: : Data handling
		Unit 13: Position and movement
	Unit 1: Numbers up to 1000000	Unit 6: Position and movement
	Unit 2: Addition and subtraction	Unit 7: Geometry
	Unit 3: Multiplication and division	Unit 8: Fractions
Six	Unit 4: Length, mass and capacity	Unit 9: Decimals
	Unit 5: Statistics	Unit 10: Percentages
		Unit 11: Time
		Unit 12: Perimeter and area

3. Let's Start! (Vector)

Grade	Semester 1	Semester 2
	Unit 1: Number to 10	Unit 8: Capacity
	Unit 2: Addition	Unit 9: Number to 100
	Unit 3: Subtraction	Unit 10: Shape, solids and patterns
One	Unit 4: Numbers 11 to 20	Unit 11: Time
One	Unit 5: Addition and Subtraction up to 20	Unit 12: Addition and subtraction up to 100
	Unit 6: Length	Unit 13: Position
	Unit 7: Mass	Unit 14: Money
		Unit 15: Data
	Unit 1: Number to 1000	Unit 6: Multiplication
	Unit 2: Addition and Subtraction up to	Unit 7: Divison
	100	Unit 8: Time
Two	Unit 3: Length	Unit 9: Money
1 WO	Unit 4: Addition and subtraction up to	Unit 10: Volume
	1000	Unit 11: Shapes and solids
	Unit 5: Mass	Unit 12: Data
	Unit 1: Number to 1000	Unit 7: Volume
Three	Unit 2: Addition and subtractionup	Unit 8: Multiplication
	Unit 3: Data	Unit 9: Divison





Grade	Semester 1	Semester 2
	Unit 4: Length	Unit 10: Fraction
	Unit 5: Time	Unit 11: Money
	Unit 6: Mass	Unit 12: Shapes and solids
		Unit 13: Angles
	Unit 1: Number to 100 000	Unit 7: Length
	Unit 2: Addition and subtractionup	Unit 8: Area and perimeter
	Unit 3: Geometry	Unit 9: Word problems
Four	Unit 4: Multiplication	Unit 10: Fraction
	Unit 5: Divison	Unit 11: Time
	Unit 6: Data	Unit 12: Decimals
		Unit 13: Combined operation
	Unit 1: Number to 10 000 000	Unit 7: Decimals
	Unit 2: Operations	Unit 8: Operations with Decimals
	Unit 3: Angles	Unit 9: Percentage
Five	Unit 4: Data and probability	Unit 10: Quadrilaterals
rive	Unit 5: Fraction	Unit 11: Triangles
	Unit 6: Operations with Fraction	Unit 12: Solids and volume
		Unit 13: Ratio
		Unit 14: Measurement
	Unit 1: Number and operation	Unit 8: Angles and quadrilaterals
	Unit 2: Algbra	Unit 9: Circles
	Unit 3: Factors and multiples	Unit 10: Percentage
Six	Unit 4: Direction	Unit 11: Solids, nets and volume
	Unit 5: Fraction	Unit 12: Data and probability
	Unit 6: Decimals	Unit 13: Ratio
	Unit 7: Operations with Decimals	Unit 14: Convert measurements

4. Collins International Primary Maths

Grade	Semester 1	Semester 2
	Unit 1: Whole numbers 1	Unit 21: Handling data 1
	Unit 5: Addition and subtraction 1	Unit 14: Money 1
	Unit 10: 2D Shape	Unit 18: Capacity
	Unit 11: 3D Shape	Unit 19: Time 1
	Unit 12: Patterns and symmetry	Unit 3: Whole numbers 3
One	Unit 13: Position and Movement	Unit 4: Fractions
One	Unit 16: Length	Unit 7: Addition and subtraction 3
	Unit 17: Mass	Unit 9: Multiplication and division 2
	Unit 2: Whole numbers 2	Unit 22: Handling data 2
	Unit 6: Addition and subtraction 2	Unit 15: Money 2
	Unit 8: Multiplication and Division 1	Unit 20: Time 2





Grade	Semester 1	Semester 2
	Unit 1: Whole numbers 1	Unit 21: Handling data
	Unit 5: Addition and subtraction 1	Unit 18: Mass
	Unit 8: Multiplication and division1	Unit 20: Time
	Unit 11: 2D shape	Unit 3: Whole numbers 3
	Unit 12: 3D shape	Unit 4: Fractions
Two	Unit 13: Patterns and symmetry	Unit 7: Addition and subtraction 3
IWU	Unit 17: Length	Unit 10: Multiplication and division 3
	Unit 15: Money 1	Unit 14: Position and movement
	Unit 2: Whole numbers 2	Unit 19: Capacity
	Unit 6: Addition and subtraction 2	Unit 16: Money 2
	Unit 9: Multiplication and division2	•
	Unit 1: Whole numbers 1	Unit 14: Money
	Unit 5: Addition and subtraction 1	Unit 17: Capacity
	Unit 8: Multiplication and division	Unit 19: Handling data
	1	Unit 3: Whole numbers 3
	Unit 11: 2D shape	Unit 4: Fractions
Three	Unit 12: 3D Shape	Unit 7: Addition and subtraction 3
	Unit 15: Length	Unit 10: Multiplication and division 3
	Unit 16: Mass	Unit 13: Position and movement
	Unit 2: Whole numbers 2	Unit 18: Time
	Unit 6: Addition and subtraction 2	
	Unit 9: Multiplication and division2	
	Unit 1: Whole numbers 1	Unit 13: 2D shape, including
	Unit 7: Addition and subtraction 1	symmetry
	Unit 10: Multiplication and division	Unit 14: 3D shape
	Unit 16: Length	Unit 15: Position and movement
	Unit 17: Mass	Unit 21: Area and perimeter
	Unit 18: Capacity	Unit 3: Whole numbers 3
Four	Unit 20: Time	Unit 5: Decimals 2
	Unit 22: Handling data 1	Unit 6: Fractions
	Unit 2: Whole numbers 2	Unit 9: Addition and subtraction 3
	Unit 4: Decimals 1	Unit 12: Multiplication and division 3
	Unit 8: Addition and subtraction 2	Unit 19: Measures
	Unit 1:Multiplication and division2	Unit 23 Handling data 2
	Unit 1: Whole numbers 1	Unit 23: Handling data
	Unit 8: Addition and subtraction 1	Unit 18: Length
	Unit 1:Multiplication and division1	Unit 19: Mass
	Unit 14: 2D shape, including	Unit 4: Decimals 2
Five	symmetry	Unit 5: Fractions
	Unit 15: 3D shape	Unit 6: Percentages
	Unit 17: Position and movement	Unit 7: Ratio and proportion
	Unit 21: Time	Unit 10: Addition and subtraction 3
		Cint 10. Hadinon and buonachon J





Grade	Semester 1	Semester 2
	Unit 2: Whole numbers 2	Unit 13: Multiplication and division 3
	Unit 3: Decimals 1	Unit 16: Angles
	Unit 9: Addition and subtraction 2	Unit 20: Capacity
	Unit 12: Multiplication and division2	Unit 22: Area and perimeter
	Unit 1: Whole numbers 1	Unit 19: Mass
	Unit 8: Addition and subtraction 1	Unit 20: Capacity
	Unit 1:Multiplication and division1	Unit 23: Handling data
	Unit 22: Area and perimeter	Unit 4: Decimals 2
	Unit 18: Length	Unit 5: Fractions
Six	Unit 14: 2D shape	Unit 6: Percentages
SIX	Unit 15: 3D shape	Unit 7: Ratio and proportion
	Unit 17: Position and movement	Unit 10: Addition and subtraction 3
	Unit 2: Whole numbers 2	Unit 13: Multiplication and division 3
	Unit 3: Decimals 1	Unit 21: Time
	Unit 9: Addition and subtraction 2	Unit 16: Angles
	Unit12:Multiplication and division2	

5. Top Maths

Grade	Semester 1	Semester 2
	Chapter 1: Numbers from 0 to 20	Chapter 7: Money
	Chapter 2: More about Numbers	Chapter 8: Length
One	Chapter 3: Shapes and Solids	Chapter 9: Mass
Olle	Chapter 4: Addition and Subtraction	Chapter 10: Capacity
	Chapter 5: Position and Movements	Chapter 11: Time
	Chapter 6: Doubles and Tens	Chapter 12: Handling Data
	Chapter 1: Numbers to 100	Chapter 8: Mental Skills
	Chapter 2: More about Numbers	Chapter 9: Money
	Chapter 3: Shapes and Solids	Chapter 10: Length
Two	Chapter 4: Halves and Quarters	Chapter 11: Mass
TWO	Chapter 5: Addition and Subtraction	Chapter 12: Capacity
	Chapter 6: Position and Movement	Chapter 13: Time
	Chapter 7: Multiplication and	Chapter 14: Handling Data
	Division	
	Chapter 1: Numbers to 1000	Chapter 8: Mental Skills
	Chapter 2: More about Numbers	Chapter 9: Fractions
	Chapter 3: Shapes and Solids	Chapter 10: Money
Three	Chapter 4: Addition and Subtraction	Chapter 11: Length
Timee	Chapter 5: Position and Movement	Chapter 12: Mass
	Chapter 6: Angles	Chapter 13: Capacity
	Chapter 7: Multiplication and	Chapter 14: Time
	Division	Chapter 15: Handling Data





Chapter 1: Numbers to 10000	Chapter 7: Mental Skills
Chapter 2: More about Numbers	Chapter 8: Fractions
Chapter 3: Shapes and Solids	Chapter 9: Decimals
Chapter 4: Addition and Subtraction	Chapter 10: Measurements
Chapter 5: Multiplication and	Chapter 11: Time
Division Chapter 6: Position and	Chapter 14: Area and Perimeter
Movement	Chapter 13: Handling Data
Chapter 1: Whole Numbers	Chapter 7: Angles
*	Chapter 8: Position and Movement
•	Chapter 9: Measurements
-	Chapter 10: Percentage
Chapter 5: Ratio	Chapter 11: Time
-	Chapter 12: Area and Perimeter
•	Chapter 13: Handling Data
	Chapter 14: Probability
Chapter 1: Whole Numbers	Chapter 7: Shapes, Solids and
Chapter 2: Fractions	Angles
Chapter 3: Mental Skills	Chapter 8: Position and Movement
-	Chapter 9: Measurement
-	Chapter 10: Time
Chapter 6: Percentage	Chapter 11: Area and Perimeter
	Chapter 12: Handling Data
	Chapter 13: Probability
	Chapter 3: Shapes and Solids Chapter 4: Addition and Subtraction Chapter 5: Multiplication and Division Chapter 6: Position and Movement Chapter 1: Whole Numbers Chapter 2: Shapes and Lines Chapter 3: Decimals Chapter 4: Fractions Chapter 5: Ratio Chapter 6: Mental Skills Chapter 2: Fractions Chapter 3: Mental Skills Chapter 4: Decimals Chapter 5: Ratio

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Grade	Semester 1	Semester 2
One	1A: Number and Problem Solving 1 Counting to ten 2 Playing with ten 1C: Measure and Problem Solving 3 Length 1A: Number and Problem Solving 4 Counting over ten 5 Estimating 1B: Geometry and Problem Solving 6 2D & 3D shapes and patterns 1A: Number and Problem Solving 7 Counting beyond 20 1C: Measure and Problem Solving 8 Capacity (1) 9 Money & time 10 Comparing weight 2A: Number and Problem Solving 11 Odd & even numbers	16 Ordering length & weight 17 Measuring & estimating capacity (2) 18 Minutes, days & months 2B: Handling Data and Problem Solving 19 Organising, categorising & representing data (1) 3A: Number and Problem Solving 20 Number & the number system: counting in tens 21 Number line, counting on & counting back 22 Doubles & halves 23 Addition & subtraction: number patterns 3C: Measure and Problem Solving 24 Money 25 Comparing length & weight





Grade	Semester 1	Semester 2
	12 Ordering numbers (1) 13 Combine and take away 14 Ordering numbers (2) 2C: Measure and Problem Solving 15 Money	26 Further estimation & comparing of capacity 27 Telling the time & months of the year 3B: Handling Data and Problem Solving 28 Organising, categorising & representing data (2)
Two	1A: Number and Problem Solving 1 The 100 square 2 Counting in twos, fives & tens 3 Number line to 100 4 Using a number line 5 Playing with 20 6 Adding & subtracting (1) 7 Multiplication arrays 1B: Geometry and Problem Solving 8 2D shapes, 3D shapes and symmetry 1C: Measure and Problem Solving 9 Measuring length 10 Measuring time & distance 11 Measuring weight, time & cost 2A: Number and Problem Solving 12 Tens and ones to 100 13 Estimating 14 Number patterns 15 Adding & subtracting (2) 16 Finding the difference 17 Grouping & sharing 2B: Handling Data and Problem Solving 18 Handling data	2C: Measure and Problem Solving 19 Length, height & capacity 20 Capacity, volume & 1 litre 21 Investigating weight, length & time 3A: Number and Problem Solving 22 More doubles 23 Threes & fours 24 Sums & differences 25 Fraction 26 Multiplying & dividing 27 Ordering numbers 3B: Geometry and Problem Solving 28 Tangrams 29 Position & movement 30 2D shapes 3C: Measure and Problem Solving 31 More on length, mass, money and time 32 Passing time & spending money





Grade	Semester 1	Semester 2
Three	1A: Number and Problem Solving 1 Place value (1) 2 Playing with 10 and 100 3 Adding several small numbers 4 Doubling & halving 5 Number pairs 6 Multiples 1B: Geometry and Problem Solving 7 Shapes, shapes & more shapes 8 Symmetry & movement 1C: Measure and Problem Solving 9 Money (1) 10 Time (1) 11 Measures 2A: Number and Problem Solving 12 Place value (2) 13 Estimating & rounding 14 Doubles & halves 15 Addition & subtraction 16 More multiples 2B: Measure and Problem Solving 17 Time (2) 18 Estimating & measuring	19 Zoo shop & café 2C: Handling Data and Problem Solving 20 Handling data 3A: Number and Problem Solving 21 Number sense 22 Fractions 23 More doubles 24 More addition & subtraction 25 Multiplying & dividing 3B: Geometry and Problem Solving 26 Right angles 27 Symmetry 28 Movement 3C: Measure and Problem Solving 29 Time (3) 30 Money (2) 31 Capacity & length 32 Weight





Grade	Semester 1	Semester 2
Four	1 Number and Problem Solving 1 Numbers & the number system 2 Addition & subtraction (1) 3 Multiplication & division (1) 1B: Measure and Problem Solving 4 Weight 5 Time (1) 6 Area & perimeter (1) 1C: Handling data and Problem Solving 7 Graphs, tables & charts (1) 8 Carroll & Venn diagrams 2A: Number and Problem Solving 9 The number system & properties of number 10 Addition & subtraction (2) 11 Multiplication & division (2) 2B: Geometry and Problem Solving 12 Angles, position & direction 13 Symmetry	14 2D & 3D shapes 2C: Measure and Problem Solving 15 Length 16 Time (2) 17 Area & perimeter (2) 3A: Number and Problem Solving 18 Special numbers 19 Fractions & divisions 20 Ration & proportion 3B: Measure and Problem Solving 21 Capacity 22 Time (3) 23 Area & perimeter (3) 3C: Handling Data and Problem Solving 24 Graphs, tables & charts (2) 25 Venn & Carroll diagrams





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Grade	Semester 1	Semester 2
	1A: Number and Problem Solving	2B: Handling Data and Problem
	1 The number system (whole	Solving
	numbers)	15 Handling data
	2 Mental & written strategies	16 Probability
	for addition & subtraction	17 Line graphs
	3 Mental & written strategies	18 Finding the mode
	for multiplication & division	2C: Measure and Problem Solving
	4 Multiples, square numbers	19 Length
	and factors	20 Time (2)
	1B: Geometry and Problem Solving	21 Area & perimeter (2)
	5 Shapes and geometric	3A: Number and Problem Solving
	reasoning	22 Number: mental strategies
771	6 Position & movement	23 Working with decimals
Five	1C: Measure and Problem Solving	24 Fractions, decimals &
	7 Mass	percentages
	8 Time & timetables	25 Calculation
	9 Area & perimeter (1)	26 Ratio & proportion
	2A: Number and Problem Solving	3B: Geometry and Problem Solving
	10 Number & number	27 Angles
	sequences	28 Shapes & geometric
	11 Decimal numbers	reasoning (2)
	12 Mental strategies	29 Position & movement
	13 Mental & written	3C: Measure and Problem Solving
	strategies for addition &	30 Capacity
	subtraction	31 Time (3)
	14 Written methods for	32 Area & perimeter (3)
	multiplication & division	19 Area & parameter (2)
	1A: Number and Problem Solving 1 The number system (1)	2C: Handling Data and Problem
	2 Multiples, factors & primes	Solving
	3 Multiplication & division	20 Graphs & charts & tables
	(1)	21 Statistics
	4 More on number	3A: Number and Problem Solving
	1B: Measure and Problem Solving	22 Probability
	5 Length	23 The number system (3)
	6 Time (1)	24 Mental Strategies
	7 Area & perimeter (1)	25 Addition & subtraction
	1C: Geometry and Problem Solving	26 Multiplication & division (3)
	8 2D & 3D shape (1)	27 Fractions
Six	9 Angles & triangle	28 Fractions, decimals &
	10 Shapes & Geometric	percentages
	reasoning	29 Ratio & proportion
	2A: Number and Problem Solving	3B: Measure and Problem Solving
	11 The number system (2)	30 Metric & imperial measures
	12 Decimals	31 Time (3)
	13 Positive & negative	32 Area & perimeter (3)
	numbers	3C: Geometry and Problem Solving
	14 Multiples, factors &	33 2D & 3D Shape (2)
	mental strategies using them	34 Locating 2D shapes
	15 Multiplication & division	35 Angles & triangles
	(2)	or improved triangles
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Grad	e Semester 1	Semester 2
	16 Special numbers	
	2B: Measure and Problem Solving	
	17 Mass & capacity	
	18 Time (2)	

7. Hodder Cambridge Primary Mathematics

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(Grade	Semester 1	Semester 2
		Unit 1: Number and problem solving:	Unit 8: Number and problem solving
		1a Counting	8a Addition
		1b Comparing numbers	8b Subtraction
		1c Adding and subtraction	8c Addition and subtraction
		Unit 2: Geometry and problem solving	Unit 9: Measure and problem solving
		2a Patterns and shapes	9a Money
		2b Making shapes	9b Measures
		Unit 3: Number and problem solving	9c Time
		3a Numbers to 20	Unit 10: Problem solving and review
		3b Adding and subtraction	10a Problem solving
		3c Counting patterns	Unit 11: Number and problem solving
		Unit 4: Measure and problem solving	11a Counting patterns
		4a Money	11b Numbers
		4b Measures	Unit 12: Handling data and problem
	One	4c Time	solving
		Unit 5: Problem solving and review	12a Sorting numbers
		5a Problem solving	12b Sorting shapes
		Unit 6: Number and problem solving	12c Blocks graphs
		6a Counting patterns	Unit 13: Number and problem solving
		6b Numbers	13a Adding and subtraction 13b Doubles and halves
		Unit 7: Handling data and problem	
		7a Sorting objects and shapes	Unit 14: Measure and problem solving 14a Money
		7b Pictograms	14b Measures
		70 Fictograms	14c Time and movement
			Unit 15: Problem solving and review
			15a Problem solving
			13a Flootein solving





Grade	Semester 1	Semester 2
Two	Unit 1: Number and problem solving 1a Number to 100 1b Comparing and rounding numbers 1c Number and place value Unit 2: Geometry and problem solving 2a 2-D shapes and symmetry 2b Shapes around me Unit 3: Number and problem solving 3a Number facts 3b Addition and subtraction 3c Multiplication Unit 4: Measure and problem solving 4a Money 4b Measuring length 4c Time Unit 5: Problem solving and review 5a Under the sea Unit 6: Number and problem solving 6a Counting patterns 6b Comparing, ordering and estimating 6c Number and place value Unit 7: Handling data and problem solving 7a Sorting objects and shapes 7b Block graphs and pictograms	Unit 8: Number and problem solving 8a Addition and subtraction 8b Multiplication 8c Division Unit 9: Measure and problem solving 9a Money 9b Measuring mass 9c Time Unit 10: Problem solving and review 10a The circus Unit 11: Number and problem solving 11a Place value and partitioning 11b Halves and quarters 11c Number patterns Unit 12: Geometry and problem solving 12a 2-D and 3-D shapes 12b Position and movement Unit 13: Number and problem solving 13a Adding and subtraction 13b Multiplication and division 13c Missing number problems Unit 14: Measure and problem solving 14a Money 14b Measuring capacity 14c Time Unit 15: Problem solving and review 15a Sports





Unit 1: Number and problem solving 1a Counting and numbers to 1000 1b Number and place value 1c Mental strategies Unit 2: Geometry and problem solving 2a 2-D shapes 2b 3-D shapes Unit 3: Number and problem solving 3a Addition and subtraction 3b Multiplication and division 3c Calculation problems Unit 4: Measure and problem solving 4a Money 4b length 4c Time Unit 8: Nu 8a Ad 8b Mu 8c Ca Unit 9: Ha solving 9a So 9b Ch Unit 10: P 10a P 11a N 11b F 11c F Unit 12: G solving
Unit 5: Problem solving 5a Problem solving Unit 6: Number and problem solving 6a Number and place value 6b Comparing, ordering and rounding 6c Mental strategies Unit 7: Measure and problem solving 7a Money 7b Mass 7c Time 12a 2- 12b P 12c 3- 13c N 13a M 13a M 13b A 13c M Unit 14: M 14a M 14b C 14c T





Semester 1	Semester 2		
Unit 1: Number and problem solving	Unit 8: Number and problem solving		
1a Place value and decimals	8a Number patterns		
1b Rounding and estimating	8b Multiplication and division		
1c Addition and subtraction	8c Problem solving		
Unit 2: Measures and problem solving	Unit 9: Handling data and problem solving		
2a The metric system	9a Handling data		
2b Length, area and perimeter	9b Problem solving		
2c Time	Unit 10: Problem solving and review		
2d Problem solving	10a Problem solving		
Unit 3: Number and problem solving	Unit 11: Number and problem solving		
	11a Numbers and the number		
•	system		
· ·	11b Fractions and decimals		
solving	11c Addition and subtraction		
4a Classifiying shapes	Unit 12: Measures and problem solving		
4b 3-D and 2-D shapes	12a The metric system 12b Area and perimeter		
4c Position and movement			
4d Problem solving	12c Time		
Unit 5: Problem solving and review	12d Problem solving		
5a Problem solving	Unit 13: Number and problem solving		
1	13a Number patterns		
	13b Multiplication and division		
6b Addition and subtraction	13c Problem solving		
Unit 7: Measures and problem solving	Unit 14: Geometry and problem		
7a The metric system	solving		
7b Length, area and perimeter	14a Classifying shapes		
7c Time	14b 3-D and 2-D shapes 14c Position and movement		
7d Problem solving	Unit 15: Problem solving and review		
	15a Problem solving		
	Unit 1: Number and problem solving 1a Place value and decimals 1b Rounding and estimating 1c Addition and subtraction Unit 2: Measures and problem solving 2a The metric system 2b Length, area and perimeter 2c Time 2d Problem solving Unit 3: Number and problem solving 3a Number Patterns 3b Multiplication and division 3c Problem solving Unit 4: Geometry and problem solving 4a Classifiying shapes 4b 3-D and 2-D shapes 4c Position and movement 4d Problem solving Unit 5: Problem solving Unit 5: Problem solving and review 5a Problem solving Unit 6: Number and problem solving 6a Numbers and the number system 6b Addition and subtraction Unit 7: Measures and problem solving 7a The metric system 7b Length, area and perimeter 7c Time		





Grade Semester 1	Semester 2
1a Place value and the number system 1b Rounding and estimating 1c Addition and subtraction Unit 2: Measures and problem solving 2a The metric system 2b Length, area and perimeter 2c Time 2d Problem solving Unit 3: Number and problem solving 3a Number Patterns 3b Multiplication and division 3c Problem solving Unit 4: Geometry and problem solving 4a Classifying 2-D shapes 4b 3-D and 2-D shapes 4b 3-D and 2-D shapes 4c Working with coordinates 4d Transfotmations 4e Problem solving Unit 5: Problem solving Unit 6: Number and problem solving 6a Place value and the number system 6b Rounding and ordering 6c Addition and subtraction Unit 7: Measure and problem solving 7a The metric system Unit 15: H	umber and problem solving umber patterns Iultiplication and division andling data and problem rganising, categorizing and ting data robability roblem solving Problem solving Problem solving Number and problem solving Rounding and ordering Fractions Addition and subtraction Measures and problem Fractions Addition and subtraction Measures and problem Solving Number and problem Solving Number and problem Solving Number and problem solving Number patterns Multiplication and division Geometry and problem Classifying 2-D shapes 3-D and 2-D shapes Working with coordinates Fransformations Problem solving and review Problem solving





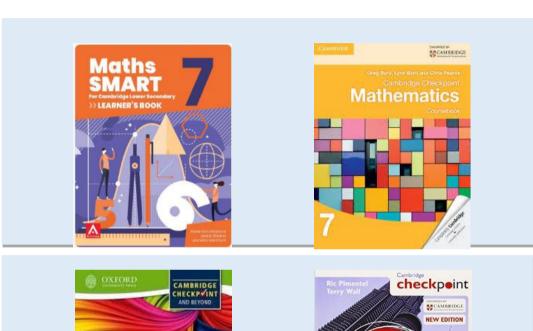
Grade	Semester 1	Semester 2	
	Unit 1: Number and problem solving	Unit 8: Number and problem solving	
	1a Place value and decimals	8a Factors and multiples	
	1b Rounding and estimating 1c Addition and subtraction	8b Number patterns, sequences and generalisations	
	Unit 2: Measures and problem solving	8c Multiplication and division	
	2a The metric system	Unit 9: Handling data and problem solving	
	2b Length, area and perimeter	9a Handling data	
	2c Time	9b Probability	
	2d Problem solving	9c Data handling and probability problems	
	Unit 3: Number and problem solving 3a Factors and multiples	Unit 10: Problem solving and review	
	3b Number Patterns, sequences and generalisations	10a Problem solving	
	_		
	3c Multiplication and division	Unit 11: Number and problem solving	
	Unit 4: Geometry and problem solving 4a Classifying 2-D shapes	11a Place value and decimal numbers	
	4b 3-D and 2-D shapes	11b Fractions	
	4c Angles in a triangle	11c Mixed numbers	
	4d Working with coordinates	11d Equivalences	
Six	4e Transformations	11c Addition and subtraction, including decimal numbers	
	Unit 5: Problem solving and review 5a Problem solving	Unit 12: Measures and problem solving	
	34 Troolem solving	12a The metric system	
	Unit 6: Number and problem solving	12b Length, area and perimeter	
	6a Place value	12c Time	
	6b Rounding and estimating	Unit 13: Number and problem solving	
	6c Addition and subtraction, including decimal numbers	13a Percentages	
	Unit 7: Measure and problem solving	13b Ratio and proportion	
	7a The metric system	13c Multiplication and division	
	7b Length, area and perimeter	Unit 14: Geometry and problem solving	
	7c Time	14a 2-D shapes	
		14b 3-D and 2-D shapes	
		14c Angles in a triangle	
		14d Coordinates	
		14e Transformations	
		Unit 15: Problem solving and review	
		15a Problem solving	

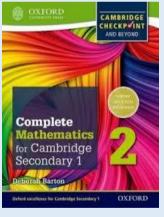


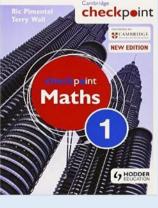


الفصل الثالث: المرحلة الدراسية (٧-٨)

Section (3): Grades (7-8)











فهرس الفصل الثالث

لصفوف (٧-٨)

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36	قوائم ال ISBNs لمكونات السلاسل المعتمدة
38	المصادر الداعمة للمعلم
38	الوسائل التعليمية
39	توزيع المحتوى على الفصلين الدراسيين

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Grades (7-8)

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List of Approved Titles and Essential Components	35
ISBNs Lists of Approved Essential Components	36
Teachers' Supplementary Resources	38
Teaching Aids	38
Content Distribution	39





السلاسل الأساسية المعتمدة ومكوناتها الإلزامية (٧-٨)

List of Approved Titles and Essential Components (7-8)*

	Title	Publisher	Components	Notes	
	Cambridge Checkpoint Mathematics	Cambridge University Press	Coursebook	Extra resources available Please visit the website	
1			Practice Book		
			Teacher's Resource (CD)	Flease visit the website	
	Maths SMART For	Alston	Student Book	Year of Publication	
2	Cambridge Lower Secondary	Publishing House	Teacher's Guide	(2020)	
	Cambridge	Hodder	Student's Book		
3	Checkpoint Maths	Education	Workbook		
			Teacher's Resource Book		
	Oxford International Math (For Cambridge Secondary 1)	Oxford International	Oxford	Student Book	
4		Math (For Cambridge University Press	Homework Book		
			Teacher Pack / with (CD)		

^{*}بعض السلاسل التعليمية في هذه القائمة ستكون معتمدة للتطبيق في العام الدراسي ٢١ ، ٢٠٢٠ ، ٢م فقط وسيتم استبدالها بالنسخ المحدثه في العام الدراسي ٢١ ، ٢٣/٢ ، ٢م فيرجى عدم شراء نسخ زائدة منها.

^{*}Some of the main resources in this list are approved only for the academic year 2021/2022 and will be substituted with their new editions in the academic year 2022/2023. So please do not buy extra copies of these resources.





قوائم ال ISBN لمكونات السلاسل المعتمدة (٧-٨)

ISBN Lists of Approved Essential Components (7-8)

1. Cambridge Checkpoint Mathematics (CUP)

Grade	Component	ISBN	Note	Book Cover
	Coursebook 7	9781107641112	For student	CHARGE BY CAMPAILINGS
7	Practice Book 7	9781107695405	For student	Greg Byrd, Lynn Byrd and Chris Peace Cambridge Checkpoint
	Teacher's Resource (CD) 7	9781107693807	For teacher	Mathematics Coursebook
	Coursebook 8	9781107697874	For student	
7 – 8	Practice Book 8	9781107665996	For student	
	Teacher's Resource (CD) 8	9781107622456	For teacher	
8	Coursebook 9	9781107668010	For student	7
	Practice Book 9	9781107698994	For student	1 //
	Teacher's Resource (CD) 9	9781107693975	For teacher	

Note: Optional resources are available: Skills Builder workbook and Challenge Workbook.

ملاحظة: تتوفر مصادر اختيارية تم تأليفها لدعم تطبيق السلسلة وهي : كتاب بناء المهارات وكتاب التحدي.

2. Maths SMART For Cambridge Lower Secondary (Alston)

Grade	Component	ISBN	Note	Book Cover
	Learner's Book 7	9789813180918	For student	Maths SMART The Combridge Lower Swamdery) LEARNER'S BOOK The Combridge Lower Swamdery A Lower Swa
7	Teacher's Guide 7	9789813183032 online	For teacher	
	Learner's Book 8	9789813180925	For student	
7 – 8	Teacher's Guide 8	9789813183049 online	For teacher	
8	Learner's Book 9	9789813180932	For student	
	Teacher's Guide 9	9789813183056 online	For teacher	





3. Cambridge Checkpoint Maths (HODDER)

Grade	Component	ISBN	Note	Book Cover
	Student's Book 1	9781444143959	For student	
7	Workbook 1	9781444144017	For student	
,	Teacher's Resource Book1 (digital copy)	9781444143928	For teacher	Ric Pimentel checkpoint Terry Wall W ANABRADE W ANABRADE
	Student's Book2	9781444143973	For student	NEW EDITION
7 – 8	Workbook 2	9781444144031	For student	Maths
7-8	Teacher's Resource Book2 (digital copy)	9781444143935	For teacher	
	Student's Book 3	9781444143997	For student	67 HODDER
8	Workbook 3	9781444144055	For student	
	Teacher's Resource Book3 (digital copy)	9781444143942	For teacher	

4. Oxford International Math

Grade	Component	ISBN	Note	Book Cover
	Student Book 1	9780199137046	For student	
7	Homework Book1 (pack of 15)	9780199137060	For student	OXFORD CAMBRIDGE CHECKP/INT
	Teacher Pack with (CD)1	9780199137053	For teacher	And as (GHz)
	Student Book 2	9780199137077	For student	
7 - 8	Homework Book 2(pack of 15)	9780199137091	For student	
	Teacher Pack with (CD)2	9780199137084	For teacher	Complete Mathematics for Cambridge
	Student Book 3	9780199137107	For student	Secondary 1
8	Homework Book 3(pack of 15)	9780199137121	For student	Deborals Barton Celent exciliase for Continings Secondary 1 OXFORD
	Teacher Pack with (CD)3	9780199137114	For teacher	



(۰۰)، فبرایر/۲۰۲۰، نموذج رئیسي (3) نشرة توجیهیة



المصادر الداعمة للمعلم (٧-٨)

Teachers' Supplementary Resources (7-8)

	Name of series	Publisher	Components
	Mathamatica		Student Book
1	Mathematics (For Cambridge secondary1)	Oxford University Press	Workbook
			Teacher's (CD)
2	توفيرنسخة واحدة لإحدىالسلاسل المعتمدة في الصفحة (26) للمعلم، والتي لم تختارها المدرسة		
	Provide at least 1 additional c	opy of a different title from the ap	proved list for teacher use (see page 36)

Mathematics (For Cambridge secondary1)

Grade	Component	ISBN	Book Cover
	Student Book stage 7	9781408519837	OXFORD OUTSIDE TO BALL
7	Workbook stage 7	9781408519844	CAPTULE
	Teacher's (CD) stage 7	9781408519820	MATHEMATICS 7
	Student Book stage 8	9781408519868	FEE CAMBRIDGE SECONARY II
7 - 8	Workbook stage 8	9781408519875	
	Teacher's (CD) stage 8	9781408519851	
	Student Book stage 9	9781408519899	
8	Workbook stage 9	9781408519905	Patrice (2.515, San Perchanton, Pila Winner Orderd excellence for Conductory 1 OXFORD
	Teacher's (CD) stage 9	9781408519882	

الوسائل التعليمية (٧-٨)

Teaching Aids (7-8)

Schools must provide the following teaching aids:

على المدارس توفير الوسائل التعليمية الآتية:

- Master Mathematical Instruments (for teacher use): Two set squares, a 180° protractor, a ruler, a compass
- الثلاثيني الستيني والمثلث متساوي الساقين، منقلة، مسطرة، فرجار. ٢. مجموعة أدوات القياس لكل مما يلي: الأوزان، الأطوال، المسافات، السعة.

١. أدوات هندسية بججم كبير لاستخدام المعلم على السبورة: المثلث

- 2. A range of measurement tools for: Weight, length, distances and capacity.
- ٣. سبورة الرسم البياني (بالإضافة للسبورة العادية في الفصل).
- Grid whiteboard (In addition to the normal whiteboar
- Different sets of dices with different number of sides
- ٤. مجموعة من أحجار النرد متنوعة في عدد الأوجه.

A laptop for each teacher.

جهاز حاسوب لكل معلم.

Projectors.

٦. أجهزة عرض.

7. Internet connection.

٧. شبكة إنترنت متاحة.





توزيع المحتوى على الفصلين الدراسيين للصفين (٧-٨)

Content Distribution of Grades (7-8)

1. Cambridge Checkpoint Mathematics (CUP)

	Grade 7	
Semester	Units	Main Resource
1 st Semester	Unit 1: Integers Unit 2: Sequences, expressions and formulae Unit 3: Place value, ordering and rounding Unit 4: Length, mass and capacity Unit 5: Angles Unit 6: Planning and collecting data Unit 7: Fraction Unit 8: Symmetry Unit 9: Expressions and equations Unit 10: Averages Unit 11: Percentages Unit 12: Construction Unit 13: Graphs Unit 14: Ratio and proportion Unit 15: Time	Coursebook 7: From page 7 to page 151
	Unit 16: Probability Unit 17: Position and movement Unit 18: Area, perimeter and volume Unit 19: Interpreting and discussing results	Coursebook 7: From page 152 to page 194
2 nd Semester	Unit 1: Integers, powers and roots Unit 2: Sequences, expressions and formulae Unit 3: Place value, ordering and rounding Unit 4: Length, mass and capacity Unit 5: Angles Unit 6: Planning and collecting data Unit 7: Fraction Unit 8: Shapes and geometric reasoning Unit 9: Simplifying expressions and solving equations	Coursebook 8: From page 7 to page 101





Cambridge Checkpoint Mathematics (cont.)

	Grade 8	
Semester	Units	Main Resource
1 st Semester	Unit 10: Processing and presenting data Unit 11: Percentages Unit 12: Constructions Unit 13: Graphs Unit 14: Ratio and proportion Unit 15: Probability Unit 16: Position and movement Unit 17: Area, perimeter and volume Unit 18: Interpreting and discussing results	Course book 8: From page 102 to page 195
1st	Unit 1: Integers, powers and roots Unit 2: Sequences and functions Unit 3: Place value, ordering and rounding Unit 4: Length, mass, capacity and time Unit 5: Shapes Unit 6: Planning and collecting data Unit 7: Fraction	Coursebook 9: From page 7 to page 74
2 nd Semester	Unit 8: Constructions and Pythagoras' theorem Unit 9: Expressions and formulae Unit 10: Processing and presenting data Unit 11: Percentages Unit 12: Tessellations, transformations and loci Unit 13: Equations and inequalities Unit 14: Ratio and proportion Unit 15: Area, perimeter and volume Unit 16: Probability Unit 17: Bearings and scale drawings Unit 18: Graphs Unit 19: Interpreting and discussing results	Coursebook 9: From page 75 to page 193





2. Maths SMART For Cambridge Lower Secondary

	Grade 7	
Semester	Units	Main Resource
1 st Semester	Unit 1: Factors, Multiples and Prime Unit 2:Integers Unit 3: Introduction to Algebra and Equation Unit 4: Decimals Unit 5: Measurement Unit6: Angles and Their Properties Unit 7: Data Handling Unit 8: Fractions Unit 9: Terms and Sequences Unit 10: Shpes snd Symmetry Unit 11: Coordinate Geometry Unit 12: Percntages Unit 13: Ratio, Rate and Proportion Unit 14: Geometrical Construction	Learner's Book 7: From page 2 to page 323
	Unit 15: Measuring Time, Area, Perimeter and Volume Unit 16: Transformation Unit 17: Data Handling Unit 18: Probability	Learner's Book 7: From page 324 to page 434
2 nd Semester	Unit 1:Inegers Unit 2: Algebraic Expression and Linear Equation Unit 3: Angles and Angle Properties Unit 4: Decimals Unit 5: Measurement Unit 6:Handling Data Unit 7: Fraction Unit 8: Shapes and Solids Unit 9: Arithmetic Sequences	Learner's Book 8: From page 3 to page 276

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Maths SMART(cont.)

	Grade 8	
Semester	Units	Main Resource
1 st Semester	Unit 10: Area and Volume Unit 11: Percentages Unit 12: : Coordinate Geometry and Graph Unit 13: Ratio and Proportion Unit 14: Geometrical Construction Unit 15: Transformation Unit 16: Handling Data Unit 17: Probability	Learner's Book 8: From page 277 to page 525
	Unit 1: Inetgers Unit 2: Algebraic Expression and Linear Equation Unit 3: Shapes and Solids Unit 4: Decimals	Learner's Book 9: From page 3 to page 112
2 nd Semester	Unit 5: Fraction Unit 6: Mensuration Unit 7: Trigonometry Unit 8: Bearing Unit 9: Percntages Unit 10: Rate, Ratio and Proportion Unit 11: Algebraic Equation Unit 12: Coordinate Geometry and Graph Unit 13: Geometrical Construction Unit 14: Transformation Unit 15: Arithmetic Sequences Unit 16: Data Handling Unit 17: Probability	Learner's Book 9: From page 113 to page 421





3. . Cambridge Checkpoint Maths (HODDER)

	Grade 7	
Semester	Chapters	Main Resource
1 st Semester	Chapter 1: Place value, ordering and rounding Chapter 2: Expressions Chapter 3: Shapes and geometric reasoning Chapter 4: Length, mass and capacity Chapter 5: Collecting and displaying data Chapter 6: Addition and subtraction Chapter 8: Integers, powers and roots Chapter 9: Equations and simple functions Chapter 10: Measurement and construction Chapter 11: Time Chapter 12: Averages Chapter 13: Multiplication and division 1 Chapter 15: Fractions, decimals and percentages Chapter 16: Sequences Chapter 17: Angle properties Chapter 18: Area and perimeter of rectangles Chapter 19: Probability Chapter 20: Multiplication and division 2	Student's Book 1: From page 1 to page 176 (Ch.7,14,21 are not included)
	Chapter 22: Ratio and proportion Chapter 23: Formulae and substitution Chapter 24: Coordinates Chapter 25: Cubes and cuboids Chapter 26: Experimental and theoretical probability Chapter 27: Division and fractions of a quantity	Student's Book 1: From page 177 to page 214 (Ch.28 is not included)
2 nd Semester	Chapter 1: Place value, ordering and rounding Chapter 2: Expressions, equations and formulae Chapter 3: Congruency and properties of two- dimensional shapes Chapter 4: Measures and motion Chapter 5: Collecting and displaying data Chapter 6: Calculations and mental strategies 1 Chapter 8: Integers, powers and roots Chapter 9: Equations and simple functions Chapter 10: Constructions Chapter 11: Transformations Chapter 12: Statistical calculations Chapter 13: Calculations and mental strategies	Student's Book 2: From page 1 to page 127 (Ch.7,14 are not included)





Cambridge Checkpoint Maths (cont.)

	Grade 8	
Semester	Chapters	Main Resource
1stSemester	Chapter 15: Fractions, decimals and percentages Chapter 16: Sequences, function and graphs Chapter 17: Angle properties Chapter 18: Area and volume Chapter 19: Interpreting data and graphs Chapter 20: Calculations and mental strategies 3 Chapter 22: Ratio and proportion Chapter 23: Formulae and substitution Chapter 24: Enlargement and scale drawing Chapter 25: Nets and surface area Chapter 26: Probability Chapter 27: Calculations and mental strategies 4	Student's Book 2: From page 128 to page 256 (Ch.21,28 are not included)
	Chapter 1: Integers, powers and roots Chapter 2: Expressions and formulae Chapter 3: Shapes and geometric reasoning Chapter 4: Length, mass and capacity Chapter 5: Planning and collecting data Chapter 6: Calculations and mental strategies 1	Student's Book 3: From page 1 to page 71 (Ch.7 is not included)
2 nd Semester	Chapter 8: Place value, ordering and rounding Chapter 9: Equations and inequalities Chapter 10: Pythagoras' theorem Chapter 11: Compound measures and motion Chapter 12: Processing and presenting data Chapter 13: Calculations and mental strategies 2 Chapter 15: Fractions, decimals and percentages Chapter 16: Sequences Chapter 17: Position and movement Chapter 18: Area and volume Chapter 19: Interpreting and discussing results Chapter 20: Calculations and mental strategies 3 Chapter 22: Ratio and proportion Chapter 23: Functions and graphs Chapter 24: Bearings and drawings Chapter 25: Measures and the circle Chapter 26: Probability Chapter 27: Calculations and mental strategies 4	Student's Book 3: From page 72 to page 271 (Ch.14,21,28 are not included)





4. Oxford International Math

	Grade 7	
Semester	Units	Main Resource
1 st Semester	 Number and calculation 1 Expressions Shapes and constructions Number and calculation 2 Length, mass and capacity Representing information Fractions Equations and formulae Geometry Fractions and decimals Time and rates of change Presenting data and interpreting results Fractions, decimals and percentages Sequences, functions and graphs 	Student Book 1: From page 7 to page 247 (And related questions from "Review C")
	15. Symmetry and transformations16. Ratio and proportion17. Area, perimeter and volume18. Probability	Student Book 1: From page 248 to page 305 (Sec.19 is not included)
2 nd Semester	 Number and calculation 1 Expressions and functions Shapes and mathematical drawings Length, mass and capacity Number and calculation 2 Planning, collecting and processing data Fractions Expressions, equations and formulae Geometry Fractions and decimals 	Student Book 2: From page 7 to page 157 (And related questions from "Review B")





Oxford International Math (cont.)

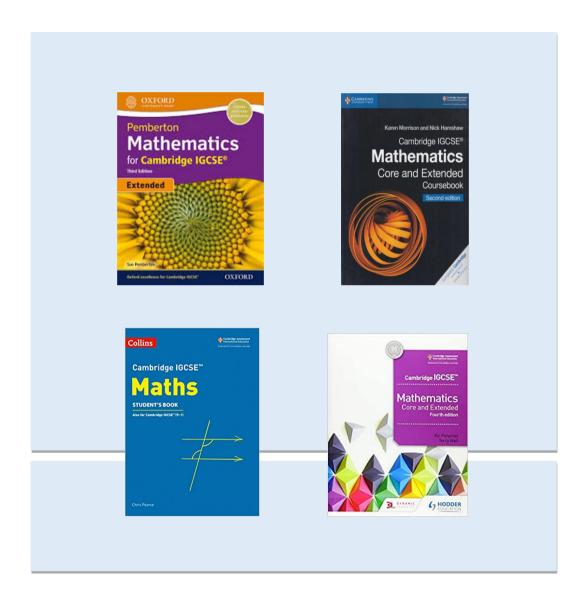
	Grade 8	
Semester	Units	Main Resource
1stSemester	11. Time and rates of change 12. Presenting data and interpreting results 13. Fractions, decimals and percentages 14. Sequences, functions and graphs 15. Transformations 16. Ratio and proportion 17. Area, perimeter and volume 18. Probability	Student Book 2: From page 158 to page 302 (Sec.19 is not included)
	 Fractions and indices Expressions and formulae Shapes and mathematical drawings Number Measures 	Student Book 3: From page 7 to page 78 (And related questions from "Review A")
2 nd Semester	 6. Planning, collecting and processing data 7. Rounding, multiplying and dividing 8. Equations and inequalities 9. Geometry 10. Mental strategies 11. Compound measures 12. Presenting data and interpreting results 13. Ratio and proportion 14. Sequences, functions and graphs 15. Transformations 16. Fractions, decimals and percentages 17. Area, perimeter and volume 18. Probability 	Student Book 3: From page 79 to page 306 (Sec.19 is not included)





الفصل الرابع: المرحلة الدراسية (٩-١٠)

Section (4): Grades (9-10)







فهرس الفصل الرابع

لصفوف (۹-۱۰)

الموضوع	الصفحة
المصادر التعليمية الأساسية المعتمدة وأرقام الISBN	49
المصادر الداعمة للمعلم	50
الوسائل التعليمية	50
توزيع المخرجات التعليمية على الفصلين الدراسيين	51

Index of Section (4)

Grades (9-10)

Title	Page
List of Essential Approved Resources and their ISBNs	49
Teachers' Supplementary Resources	50
Teaching Aids	50
Learning Outcomes Distribution	51

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المصادر التعليمية الأساسية المعتمدة وأرقام الISBN - للصفين (٩-١٠)

List of Essential Approved Resources and their ISBNs- Grades (9-10)

	Publisher	Components	ISBN	Book Cover
1	Oxford	Pemberton Mathematics for Cambridge IGCSE - Extended (Third Edition)	9780198428402	Pemberton Mathematics for Cambridge IGCSE®
		Pemberton Mathematics for Cambridge IGCSE Teacher Resource Pack – Extended (Third Edition)	9780198428473	Sign Production Sign Controlling State: OX FORD
		Cambridge IGCSE Mathematics Core and Extended (Fourth Edition)	9781510421684	
2	Hodder Education*	Cambridge IGCSE Mathematics Core and Extended (Fourth Edition) - workBook	9781510421707	Mathematics Core and Extended Fourthedion
		Cambridge IGCSE Mathematics Core and Extended - Teacher's CD-ROM	9781510424197 onlin	D. CAMPILL C. HODDER
3		Cambridge IGCSE Maths - Student book	9780008257798	Collins Cambridge IGCSE" Maths STUDENT'S BOOK
	Collins	Cambridge IGCSE Maths - Teacher Guide	9780008257804	Grid Pysina
4		Cambridge IGCSE Mathematics Core and Extended - Coursebook (Second Edition)	9781108437189	Cambridge IGCSE®
	Cambridge University	Cambridge IGCSE Mathematics Extended - Practice Book (Second Edition)	9781108437219	Mathematics Core and Extended Coursebook
	Press	Cambridge IGCSE Mathematics - Teacher's Resource (Second Edition)	9781108437271 online	Second rollion

*المصدر (Hodder) يعتمد فقط لطلاب الصف العاشر الذين درسوا نفس الكتاب في الصف التاسع في العام الأكاديمي ٢٠٢١/٢٠٢٠.

*Hodder text book is only approved to 10th grade students who have taken the text book in grsde 9 in 2020/2021.





المصادر الداعمة للمعلم (٩-١٠)

Teachers' Supplementary Resources (9-10)

	Name of series	Publisher	ISBN			
1	Exam Success in Mathematics for Cambridge (IGCSE® (Core & Extended	Oxford University Press	9780198428121			
2	توفيرنسخة واحدة لإحدى السلاسل المعتمدة في الصفحة (٤٩) للمعلم، والتي لم تختارها المدرسة Provide at least 1 additional copy of a different title from the approved list for teacher use (see page 49)					

الوسائل التعليمية (٩-١٠)

Teaching Aids (9-10)

Schools must provide the following teaching aids:

- 1. Master Mathematical Instruments (for teachers use): Two set squares, a 180° protractor, a ruler, a compass.
- 2. Grid whiteboard (In addition to the normal whiteboard).
- 3. A laptop for each teacher.
- 4. Projectors
- 5. Internet connection.

على المدارس توفير الوسائل التعليمية الآتية:

- 1. أدوات هندسية بججم كبير لاستخدام المعلم على السبورة: المثلث الثلاثيني الستيني والمثلث متساوي الساقين، منقلة، مسطرة، فرجار.
 - ٢. سبورة الرسم البياني (بالإضافة للسبورة العادية في الفصل).
 - ٣. جهاز حاسوب لكل معلم.
 - ٤. جهازعرض.
 - ٥. شبكة انترنت متاحة.





توزيع المخرجات التعليمية على الفصلين الدراسيين للصفين (٩-١٠)

Learning Outcomes Distribution of Grades (9-10)

Grade (9) First Semester

1) Number

Indices

- Understand the meaning and rules of indices
- Use the standard form $\tilde{A} \times 10^n$ where n is a positive or negative integer, and $1 \le A < 10$

Real Numbers

- Identify and use real numbers (Which includes rational & irrational numbers)
- Convert recurring decimals to fractions (And opposite)

Proportion

- Increase and decrease a quantity by a given ratio
- Use common measures of rate
- Calculate average speed

Percentages

- Calculate a given percentage of a quantity
- Express one quantity as a percentage of another
- Calculate percentage increase or decrease
- Carry out calculations involving reverse percentages

2) Algebra

Algebraic Manipulation

- Construct and transform complicated formulae and equations
- Manipulate directed numbers
- Use brackets and extract common factors
- Expand products of algebraic expressions
- Factorize where possible expressions of the form:

$$ax + bx + kay + kby$$

 $a^{2}x^{2} - b^{2}y^{2}$
 $a^{2} + 2ab + b^{2}$
 $ax^{2} + bx + c$

- Manipulate algebraic fractions
- Factorize and simplify rational expressions

3) Co-ordinate Geometry

Straight Line Graphs

- Find the gradient of a straight line
- Calculate the gradient of a straight line from the co-ordinates of two points on it
- Calculate the length and the co-ordinates of the midpoint of a straight line from the co-ordinates of its end points
- Interpret and obtain the equation of a straight line graph in the form y = mx + c
- Determine the equation of a straight line parallel to a given line
- Find the gradient of parallel and perpendicular lines





Grade (9)

First Semester

4) Mensuration

Arc Length and Sector Area of the Circle

• Solve problems involving the arc length and sector area as fractions of the circumference and area of a circle

Surface Area and Volume of 3D Shapes

- Carry out calculations involving the volume of a cuboid, prism and cylinder and the surface area of a cuboid and a cylinder
- Carry out calculations involving the surface area and volume of a sphere, pyramid and cone **Areas and Volumes of Compound Shapes**
 - Carry out calculations involving the areas and volumes of compound shapes





Grade (9)

Second Semester

1) Number

Sets

- Use language, notation and Vann diagrams to describe sets and represent relationships between sets Note: Including shaded parts
- Define sets in different ways

2) Algebra

Linear Equations and Inequalities

- Solve simple linear equations in one unknown
- Solve simple linear inequalities

Variation

• Express direct and inverse variation in algebraic terms and use this form of expression to find unknown quantities

3) Geometry

scale drawings

Read and make scale drawings

Symmetry

- Recognize rotational and line symmetry (including order of rotational symmetry) in two dimensions
- Recognize symmetry properties of the prism (including cylinder) and the pyramid (including cone)
- Use the following symmetry properties of circles:
 - equal chords are equidistant from the center
 - the perpendicular bisector of a chord passes through the center
 - tangents from an external point are equal in length

Angle Properties

- Calculate unknown angles using the following geometrical properties:
 - angles at a point
 - angles at a point on a straight line and intersecting straight lines
 - angles formed within parallel lines
 - angle properties of triangles and quadrilaterals
 - angle properties of regular polygons
 - angle in a semi-circle
 - •angle between tangent and radius of a circle.
 - angle properties of irregular polygons
 - angle at the center of a circle is twice the angle at the circumference
 - angles in the same segment are equal
 - angles in opposite segments are supplementary; cyclic quadrilaterals

4) Trigonometry

Bearings

• Interpret and use three-figure bearings

Trigonometry

- Apply Pythagoras' theorem and the sine, cosine and tangent ratios for acute angles to the calculation of a side or of an angle of a right-angled triangle
- Solve trigonometrical problems in two dimensions involving angles of elevation and depression

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Extend sine and cosine values to angles between 90° and 180°





5) Statistics

Reading and Displaying Data

- Construct and read histograms with equal and unequal intervals and scatter diagrams
- Understand what is meant by positive, negative and zero correlation with reference to a scatter diagram
- Draw a straight line of best fit by eye

Mean, Median, Mode and Range

- Calculate the mean, median, mode and range for individual and discrete data and distinguish between the purposes for which they are used
- Calculate an estimate of the mean for grouped and continuous data
- Identify the modal class from a grouped frequency distribution

Grade (10)

First Semester

1) Algebra

Algebraic indices

- Use and interpret positive, negative and zero indices
- Use and interpret fractional indices
- Use the rules of indices

Solving Equations

- Solve simultaneous linear equations in two unknowns
- Solve quadratic equations by factorization, completing the square or by use of the formula

Linear Programming

• Represent inequalities graphically and use this representation in the solution of simple linear programming problems

Sequences

- Continue a given number sequence
- Recognize patterns in sequences and relationships between different sequences
- Find the nth term of sequences

2) Number

Accuracy

- Give appropriate upper and lower bounds for data given to a specified accuracy
- Obtain appropriate upper and lower bounds to solutions of simple problems given data to a specified accuracy

Money and Finance

- Use given data to solve problems on personal and small business finance involving earnings, simple interest and compound interest, discount, profit and loss
- Extract data from tables and charts

Exponential Growth and Decay

• Use exponential growth and decay in relation to population and finance

3) Geometry

Similarity

- Calculate lengths of similar figures
- Use the relationships between areas of similar triangles, with corresponding results for similar figures and extension to volumes and surface areas of similar solids

Loci

• Use the following loci and the method of intersecting loci for sets of points in two dimensions which are:

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- at a given distance from a given point
- at a given distance from a given straight line
- equidistant from two given points
- •equidistant from two given intersecting straight lines





Grade (10)

First Semester

4) Vectors

Vectors

- Describe a translation by using a vector represented by e.g. $\begin{pmatrix} x \\ y \end{pmatrix}$, \xrightarrow{AB} or **a**.
- Add and subtract vectors
- Multiply a vector by a scalar
- Calculate the magnitude of a vector $\begin{pmatrix} x \\ y \end{pmatrix}$ as $\sqrt{x^2 + y^2}$
- Represent vectors by directed line segments
- Use the sum and difference of two vectors to express given vectors in terms of two coplanar vectors
- Use position vectors

5) Statistics

Cumulative Frequency

- Construct and use cumulative frequency diagrams
- Estimate and interpret the median, percentiles, quartiles and inter-quartile range



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Grade (10)

Second Semester

1) Algebra

Graphs in Practical Situations

- Interpret and use graphs in practical situations including travel graphs and conversion graphs
- Draw graphs from given data
- Apply the idea of rate of change to easy kinematics involving distance-time and speed-time graphs, acceleration and deceleration
- Calculate distance travelled as area under a linear speed-time graph

Graphs of Functions

- Construct tables of values and draw graphs for functions of the form axⁿ, where a is a rational constant, and n = -2, -1, 0, 1, 2, 3, and simple sums of not more than three of these and for functions of the form a^x , where a is a positive integer
- Solve associated equations approximately by graphical methods
- Draw and interpret graphs representing exponential growth and decay problems
- Estimate gradients of curves by drawing tangents

Functions

- Use function notation, e.g. f(x) = 3x 5, f: $x \to 3x 5$, to describe simple functions
- Find inverse functions $f^{-1}(x)$
- Form composite functions as defined by gf(x) = g(f(x))

2) Trigonometry

Trigonometry

- Solve problems using the sine and cosine rules for any triangle and the formula area of triangle = 1/2 ab sin C
- Solve simple trigonometrical problems in three dimensions including angle between a line and a plane

3) Matrices and transformation

Matrices

- Display information in the form of a matrix of any order
- Calculate the sum and product (where appropriate) of two matrices
- Calculate the product of a matrix and a scalar quantity
- Use the algebra of 2 × 2 matrices including the zero and identity 2 × 2 matrices
 Calculate the determinant | A | and inverse A⁻¹ of a non-singular matrix A

- Reflect simple plane figures in horizontal or vertical lines
- Rotate simple plane figures about the origin, vertices or midpoints of edges of the figures, through multiples of 90°
- Construct given translations and enlargements of simple plane figures
- Recognize and describe reflections, rotations, translations and enlargements
- Use the following transformations of the plane: reflection (M), rotation (R), translation (T), enlargement (E)
- Identify and give precise descriptions of transformations connecting given figures
- Describe transformations using co-ordinates and matrices (singular matrices are excluded)

4) Probability

Probability of Single Events

- Calculate the probability of a single event as either a fraction, decimal or percentage
- Understand and use the probability scale from 0 to 1
- Understand that the probability of an event occurring = 1 the probability of the event not occurring
- Understand relative frequency as an estimate of probability

Probability of Combined Events

Calculate the probability of simple combined events, using possibility diagrams and tree diagrams where appropriate

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End of the newsletter