

نتقدم بثقة
Moving Forward
with Confidence



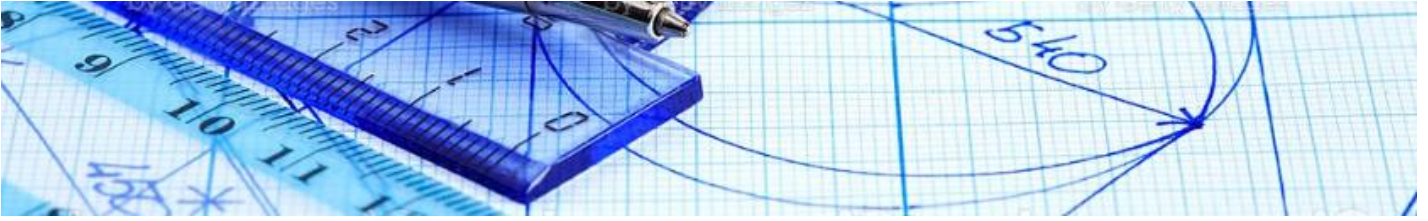
سلطنة عُمان
وزارة التربية والتعليم
المديرية العامة للمدارس الخاصة
دائرة برامج ومناهج المدارس الخاصة

المصادر التعليمية المعتمدة لمادة الرياضيات للمدارس الخاصة

برنامج ثنائي اللغة - للصفوف (١-١٠)

Approved Mathematics Educational Resources for Private Schools

Bilingual Program - Grades (1-10)



2022/2023



المصادر التعليمية المعتمدة لمادة الرياضيات ٢٠٢٢/٢٠٢٣م

Math Approved Resources 2022/2023

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الفصل الأول: الموجهات العامة

Section (1): General Guidelines

الموجهات العامة

- الالتزام باختيار أحد المصادر التعليمية الأساسية المعتمدة من قبل الدائرة في هذه النشرة التوجيهية .
- الالتزام بتوفير جميع المكونات الأساسية للمصادر التعليمية المختارة، بالنسبة لكل طالب ولكل معلم، والموضحة في الفصول القادمة من هذه النشرة التوجيهية .
- الالتزام بتوفير نسخ كافية من الكتب وغيرها من المصادر التعليمية، لطلابها ومعلميها قبل وقت كاف من بداية العام الدراسي .
- الالتزام بتوفير نسخ أصلية من المصادر التعليمية الأساسية التي تم اختيارها للتطبيق، ومراعاة حقوق الطبع والملكية الفكرية في جميع استخدامات المصادر المعتمدة في هذه النشرة .

ملاحظة هامة:

- توجد بعض السلاسل ضمن قائمة السلاسل التعليمية الأساسية المعتمدة سيسمح باستخدامها في العام الدراسي ٢٠٢٢/٢٠٢٣ فقط ولآخر عام دراسي، تمت الإشارة إليها بشكل واضح في خانة الملاحظات لقائمة المصادر المعتمدة، ولن يسمح باستخدامها بداية من العام الدراسي اللاحق ٢٠٢٣/٢٠٢٤م، فيرجى الالتزام بذلك وعدم شراء نسخ زائدة منها .
- توجد مكونات إضافية غير إلزامية لبعض السلاسل المعتمدة في هذه النشرة، مثل كتب المراجعة، ومصادر داعمة للتقويم المستمر والتقويم الختامي، وكتب بناء المهارات لدى الطلاب، وكتب التحدي للطلبة المتميزين، ووسائل تعليمية رقمية وغيرها من المصادر الإثرائية للمنهج الدراسي، وللمدرسة الاطلاع عليها من خلال مواقع دور النشر، ولها الحرية في توفيرها للمعلمين ولأولياء الأمور وللطلبة، بشرط أن يتم الالتزام بالمعايير المعتمدة لاختيار المصادر الإثرائية، والتي تستخدم بغرض دعم تطبيق المنهج بشكل أفضل .

- المرحلة (١-٨): تلتزم المدرسة بتحقيق الأهداف الواردة في السلاسل التعليمية المعتمدة، وذلك خلال الفصلين الدراسيين الأول والثاني في كل صف دراسي، بناءً على الوحدات المحددة في بند "توزيع المحتوى على الفصلين الدراسيين" . برجاء مراجعة الفصلين الثاني والثالث من هذه النشرة التوجيهية .
- المرحلة (٩-١٠): تلتزم المدرسة بتحقيق الأهداف الواردة في الفصل الرابع من هذه النشرة التوجيهية .

ملاحظة هامة:

- ضرورة الالتزام بتفعيل الدروس المتعلقة بالنقود في الصفوف (١-٦) باستبدال العملة الأجنبية بالعملة العمانية (باستخدام نماذج ورقية مغلفة حرارياً للفئات النقدية العمانية المختلفة) .

الوسائل التعليمية	<ul style="list-style-type: none"> ▪ مرحلة (٦-١): الالتزام بتوفير الوسائل التعليمية المذكورة في دليل المعلم للسلسلة الأساسية التي قامت المدرسة باختيارها . ▪ مرحلة (١٠-٧): الالتزام بتوفير الوسائل التعليمية المذكورة في الفصلين الثالث والرابع من هذه النشرة التوجيهية . ▪ تلتزم المدرسة 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 تتطلب ذلك لتنفيذها بالصورة المطلوبة .
التدريب	<ul style="list-style-type: none"> ▪ تدريب المعلمين والذي يتعلق باستخدام الكتب الدراسية والمصادر التعليمية المعتمدة، يجب أن يكون ضمن خطط المدارس الخاصة للإثراء المهني، والمدرسة معنية بالتنسيق مع دور النشر حول توفير البرامج التدريبية لمعلميها عن طريق التواصل المباشر مع الدار أو من خلال الموزعين المعتمدين .

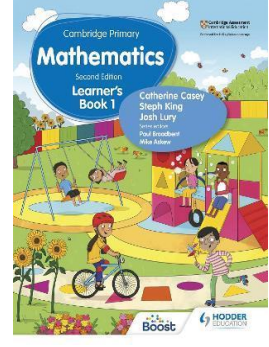
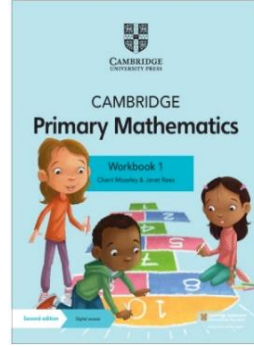
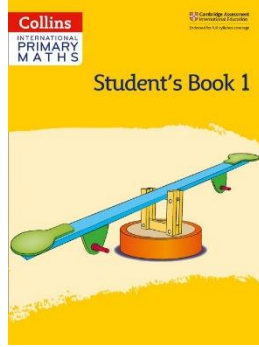
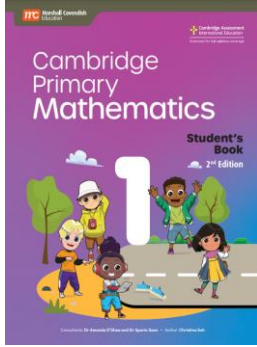
General Guidelines

Series and books Selection and Provision	<ul style="list-style-type: none">▪ To select and use essential resources from the approved titles in this newsletter.▪ To provide all the essential components of the resources for students and teachers.▪ To order sufficient quantities of the materials for teachers and students before the beginning of the academic year. Schools are responsible for any late delivery of their orders.▪ To provide original copies of the selected resources and taking in consideration the copy rights and intellectual properties while using any approved resource in any aspect. <p><u>Important Note:</u></p> <ul style="list-style-type: none">▪ There are some main series approved for the year 2022/2023 only and will not be allowed to be used from the following year 2023/2024. This is clearly indicated in the note's column in the lists.▪ 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' websites 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).
Outcomes	<ul style="list-style-type: none">• 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 Distribution", in Chapters 2 and 3 in this newsletter.• Grades (9-10): To implement the outcomes mentioned in the section "Learning Outcomes Distribution" in Chapter 4 of this newsletter. <p>Important Note:</p> <ul style="list-style-type: none">• When teaching the concept of currency and money, in grades (1-6) teachers should replace the foreign currency with Omani currency.

Teaching Aids	<ul style="list-style-type: none"> ▪ Grades (1-6): To provide and implement the teaching aids and the ancillary materials which are prescribed within the chosen approved resources. ▪ Grades (7-10): To provide and implement the teaching aids which are specified in the "Teaching Aids" section at Chapters 3 and 4 within this newsletter. ▪ All grades: To provide paper, photocopiers, laptops, projectors, and other consumable materials that will be required in using the approved resources.
Training	<ul style="list-style-type: none"> ▪ Teacher training related to the use of the selected coursebooks or learning resources should be part of all schools' commitment to the professional development of their teachers and should be made available to teachers by the schools by contacting the publishers or their concerned distributors.

الفصل الثاني: الصفوف الدراسية (١-٦)

Section (2): Grades (1-6)



الفهرس

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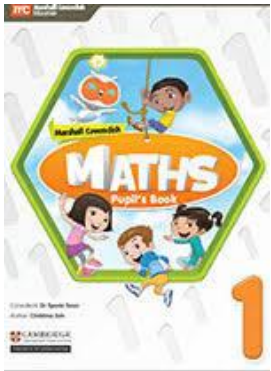
قائمة السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات ومكوناتها الإلزامية - الصفوف (٦-١)

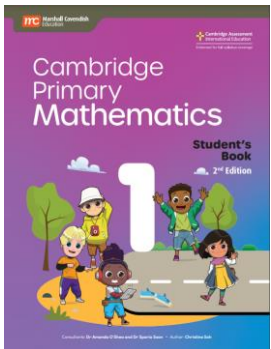
List of Approved Series and their Compulsory Components – Grades (1- 6)

	Name of series	Edition	Publisher	Components	Comments
1	Cambridge Primary MATHS	First Edition	Marshall Cavendish Education	Pupil's Book Activity Book Teacher's Guide	Last year of approval
2	Cambridge Primary MATHS	Second Edition	Marshall Cavendish Education	Pupil's Book Activity Book Teacher's Guide	New Arrival
3	Max Maths Primary	-	Macmillan Education	Student Book Workbook Teacher's Guide	Last year of approval
4	Let's Start!	-	Vector	Student's Book Workbook Teacher's Pack	Last year of approval
5	Collins International Primary Maths	First Edition	Collins	Student's Book Workbook Teacher's Guide	Last year of approval
6	Collins International Primary Maths	Second Edition	Collins	Student's Book Workbook Teacher's Guide	New Arrival
7	Top Maths	-	Alston Publishing House	Textbook (A&B) Workbook (A&B) Teacher's Guide (A&B)	Last year of approval
8	Cambridge Primary Mathematics	First Edition	Cambridge University Press	Learner's Book Teacher's Resource with (CD) Games Book	Last year of approval
9	Cambridge Primary Mathematics	Second Edition	Cambridge University Press	Learner's Book Teacher's Resource with (CD) Games Book	New Arrival
10	Hodder Cambridge Primary Mathematics	First Edition	Hodder Education	Learner's Book Workbook Digital Teacher's Pack	Last year of approval
11	Hodder Cambridge Primary Mathematics	Second edition	Hodder Education	Learner's Book Workbook Teacher's Pack	New Arrival

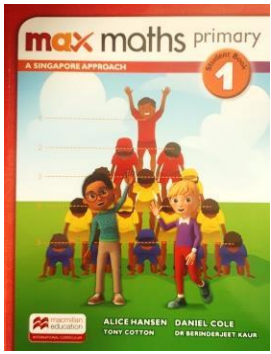
أرقام الـ (ISBNs) لمكونات السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات – الصفوف (٦-١)

ISBNs of the Approved Series Components - Grades (1- 6)

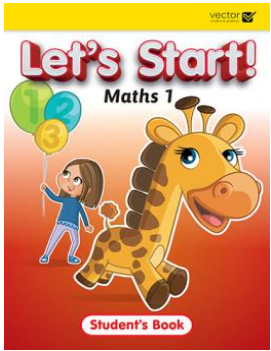
1. Cambridge Primary MATHS - Marshall Cavendish Education (First Edition):			
Grade	Components	ISBN	Book Cover
1	Pupil's Book	9789814736756	
	Activity Book	9789814736787	
	Teacher's Guide	9789814736794	
2	Pupil's Book	9789814736770	
	Activity Book	9789814736817	
	Teacher's Guide	9789814736824	
3	Pupil's Book	9789814736718	
	Activity Book	9789814736725	
	Teacher's Guide	9789814736749	
4	Pupil's Book	9789813163720	
	Activity Book	9789813163737	
	Teacher's Guide	9789813163744	
5	Pupil's Book	9789813163751	
	Activity Book	9789813163768	
	Teacher's Guide	9789813163775	
6	Pupil's Book	9789813163782	
	Activity Book	9789813163799	
	Teacher's Guide	9789813163805	

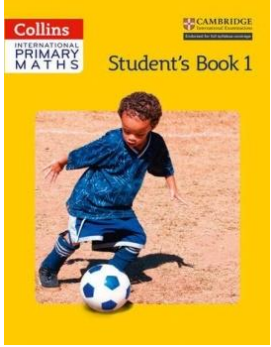
2. Cambridge Primary MATHS - Marshall Cavendish Education (Second Edition):			
Grade	Components	ISBN	Book Cover
1	Student's Book	9789814971096	
	Activity Book	9789814971157	
	Teacher's Guide	9789814971218	
2	Student's Book	9789814971102	
	Activity Book	9789814971164	
	Teacher's Guide	9789814971225	
3	Student's Book	9789814971119	
	Activity Book	9789814971171	
	Teacher's Guide	9789814971232	
4	Student's Book	9789814971126	
	Activity Book	9789814971188	
	Teacher's Guide	9789814971249	
5	Student's Book	9789814971133	
	Activity Book	9789814971195	
	Teacher's Guide	9789814971256	
6	Student's Book	9789814971140	
	Activity Book	9789814971201	
	Teacher's Guide	9789814971263	

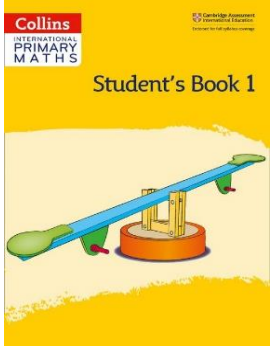
3. Max Maths Primary - Macmillan Education:

Grade	Components	ISBN	Book Cover
1	Student Book 1	9781380008749	
	Workbook 1	9781380017741	
	Teacher's Guide 1	9781380017758	
	Journal	9781380024800	
2	Student Book 2	9781380012647	
	Workbook 2	9781380017789	
	Teacher's Guide 2	9781380017796	
	Journal	9781380022233	
3	Student Book 3	9781380012654	
	Workbook 3	9781380017826	
	Teacher's Guide 3	9781380017833	
	Journal	9781380022233	
4	Student Book 4	9781380012661	
	Workbook 4	9781380017864	
	Teacher's Guide 4	9781380017871	
	Journal	9781380022417	
5	Student Book 5	9781380012678	
	Workbook 5	9781380017901	
	Teacher's Guide 5	9781380017918	
	Journal	9781380024848	
6	Student Book 6	9781380012692	
	Workbook 6	9781380017949	
	Teacher's Guide 6	9781380017956	
	Journal	9781380024855	

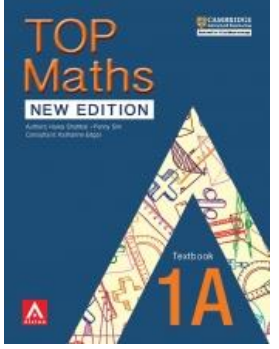
4. Let's Start! - Vector:

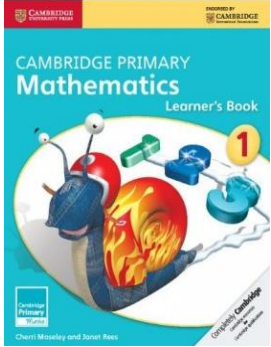
Grade	Components	ISBN	Book Cover
1	Student's Book	9786185305291	
	Workbook	9786185305307	
	Teacher's Pack	9786185305314	
2	Student's Book	9786185305345	
	Workbook	9786185305352	
	Teacher's Pack	9786185305369	
3	Student's Book	9786185305376	
	Workbook	9786185305383	
	Teacher's Pack	9786185305390	
4	Student's Book	9786185305406	
	Workbook	9786185305413	
	Teacher's Pack	9786185305420	
5	Student's Book	9786185305444	
	Workbook	9786185305451	
	Teacher's Pack	9786185305468	
6	Student's Book	9786185305475	
	Workbook	9786185305482	
	Teacher's Pack	9786185305499	

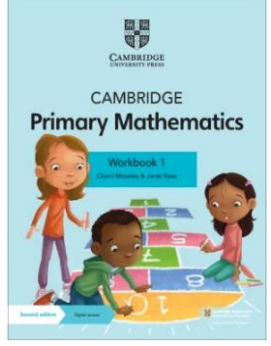
5. International Primary Maths (First Edition) - Collins:			
Grade	Components	ISBN	Book Cover
1	Student Book 1	9780008159795	
	Workbook 1	9780008159801	
	Teacher's Guide 1	9780008159788	
2	Student Book 2	9780008159849	
	Workbook 2	9780008159856	
	Teacher's Guide 2	9780008159832	
3	Student Book 3	9780008159894	
	Workbook 3	9780008159900	
	Teacher's Guide 3	9780008159887	
4	Student Book 4	9780008159948	
	Workbook 4	9780008159955	
	Teacher's Guide 4	9780008159931	
5	Student Book 5	9780008159993	
	Workbook 5	9780008160005	
	Teacher's Guide 5	9780008159986	
6	Student Book 6	9780008160043	
	Workbook 6	9780008160050	
	Teacher's Guide 6	9780008160036	

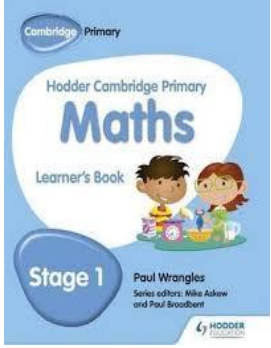
6. International Primary Maths (Second Edition) - Collins:			
Grade	Components	ISBN	Book Cover
1	Student Book 1	9780008340896	
	Workbook 1	9780008369453	
	Teacher's Guide 1	9780008369514	
2	Student Book 2	9780008369408	
	Workbook 2	9780008369460	
	Teacher's Guide 2	9780008369521	
3	Student Book 3	9780008369415	
	Workbook 3	9780008369477	
	Teacher's Guide 3	9780008369538	
4	Student Book 4	9780008369422	
	Workbook 4	9780008369484	
	Teacher's Guide 4	9780008369545	
5	Student Book 5	9780008369439	
	Workbook 5	9780008369491	
	Teacher's Guide 5	9780008369552	
6	Student Book 6	9780008369446	
	Workbook 6	9780008369507	
	Teacher's Guide 6	9780008369569	

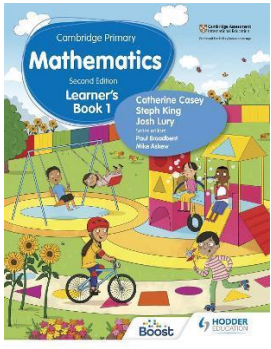
7. TOP Maths - Alston Publishing House:

Grade	Components	ISBN	Book Cover
1	Textbook 1A	9789813180017	
	Workbook 1A	9789813180031	
	Teacher's Guide 1A - Online	9789813181106	
	Textbook 1B	9789813180024	
	Workbook 1B	9789813180048	
	Teacher's Guide 1B - Online	9789813181113	
2	Textbook 2A	9789813180079	
	Workbook 2A	9789813180093	
	Teacher's Guide 2A - Online	9789813181120	
	Textbook 2B	9789813180086	
	Workbook 2B	9789813180109	
	Teacher's Guide 2B - Online	9789813181137	
3	Textbook 3A	9789813180130	
	Workbook 3A	9789813180154	
	Teacher's Guide 3A - Online	9789813181144	
	Textbook 3B	9789813180147	
	Workbook 3B	9789813180161	
	Teacher's Guide 3B - Online	9789813181205	
4	Textbook 4A	9789813180192	
	Workbook 4A	9789813180215	
	Teacher's Guide 4A - Online	9789813181212	
	Textbook 4B	9789813180208	
	Workbook 4B	9789813180222	
	Teacher's Guide 4B - Online	9789813181229	
5	Textbook 5A	9789813180253	
	Workbook 5A	9789813180277	
	Teacher's Guide 5A - Online	9789813181236	
	Textbook 5B	9789813180260	
	Workbook 5B	9789813180284	
	Teacher's Guide 5B - Online	9789813181243	
6	Textbook 6A	9789813180314	
	Workbook 6A	9789813180338	
	Teacher's Guide 6A - Online	9789813181281	
	Textbook 6B	9789813180321	
	Workbook 6B	9789813180345	
	Teacher's Guide 6B - Online	9789813181298	

8. Cambridge Primary Mathematics (First Edition) - Cambridge University Press:			
Grade	Components	ISBN	Book Cover
1	Stage 1 Learner's Book	9781107631311	
	Stage 1 Teacher's Resource with CD-ROM	9781107656833	
	Stage 1 Games Book with CD-ROM	9781107646407	
2	Stage 2 Learner's Book	9781107615823	
	Stage 2 Teacher's Resource with CD-ROM	9781107640733	
	Stage 2 Games Book with CD-ROM	9781107623491	
3	Stage 3 Learner's Book	9781107667679	
	Stage 3 Teacher's Resource with CD-ROM	9781107668898	
	Stage 3 Games Book with CD-ROM	9781107694019	
4	Stage 4 Learner's Book	9781107662698	
	Stage 4 Teacher's Resource with CD-ROM	9781107692947	
	Stage 4 Games Book with CD-ROM	9781107685420	
5	Stage 5 Learner's Book	9781107638228	
	Stage 5 Teacher's Resource with CD-ROM	9781107658547	
	Stage 5 Games Book with CD-ROM	9781107614741	
6	Stage 6 Learner's Book	9781107618596	
	Stage 6 Teacher's Resource with CD-ROM	9781107694361	
	Stage 6 Games Book with CD-ROM	9781107667815	

9. Cambridge Primary Mathematics (Second Edition) - Cambridge University Press:			
Grade	Components	ISBN	Book Cover
1	Learner's Book1	9781108746410	
	Teacher's Resource1	9781108771498	
	Work Book1	9781108746434	
2	Learner's Book2	9781108746441	
	Teacher's Resource2	9781108783873	
	Work Book2	9781108746465	
3	Learner's Book3	9781108746489	
	Teacher's Resource3	9781108783934	
	Work Book3	9781108746496	
4	Learner's Book4	9781108745291	
	Teacher's Resource4	9781108770675	
	Work Book4	9781108760027	
5	Learner's Book5	9781108760034	
	Teacher's Resource5	9781108771207	
	Work Book5	9781108746311	
6	Learner's Book6	9781108746328	
	Teacher's Resource6	9781108771368	
	Work Book6	9781108746335	

10. Cambridge Primary Mathematics (First Edition) – Hodder Education:			
Grade	Components	ISBN	Book Cover
1	Learner's Book	9781471884313	
	Workbook	9781471884566	
	Digital Teacher's Pack	9781471884443	
2	Learner's Book	9781471884337	
	Workbook	9781471884597	
	Digital Teacher's Pack	9781471884467	
3	Learner's Book	9781471884368	
	Workbook	9781471884610	
	Digital Teacher's Pack	9781471884481	
4	Learner's Book	9781471884375	
	Workbook	9781471884634	
	Digital Teacher's Pack	9781471884504	
5	Learner's Book	9781471884405	
	Workbook	9781471884658	
	Digital Teacher's Pack	9781471884528	
6	Learner's Book	9781471884429	
	Workbook	9781471884672	
	Digital Teacher's Pack	9781471884542	

11. Cambridge Primary Mathematics (Second Edition) – Hodder Education:			
Grade	Components	ISBN	Book Cover
1	Learner's Book1	9781398300903	
	Workbook1	9781398300217	
	Teacher's Guide1	9781398300781	
2	Learner's Book2	9781398300941	
	Workbook2	9781398301177	
	Teacher's Guide2	9781398300798	
3	Learner's Book3	9781398300989	
	Workbook3	9781398301184	
	Teacher's Guide3	9781398300804	
4	Learner's Book4	9781398301023	
	Workbook4	9781398301207	
	Teacher's Guide4	9781398300811	
5	Learner's Book5	9781398301061	
	Workbook5	9781398301221	
	Teacher's Guide5	9781398300828	
6	Learner's Book6	9781398301108	
	Workbook6	9781398301245	
	Teacher's Guide6	9781398300835	

Content Distribution – Grades (1- 6)

1. Cambridge Primary MATHS First Edition - Marshall Cavendish:		
Grade	Semester 1	Semester 2
One	Unit 1: Numbers 0 to 10 Unit 2: Naming Position Unit 3: Length and Mass Unit 4: Number Pairs Unit 5: Addition Within 10 Unit 6: Subtraction within 10 Unit 7: 2D Shapes Unit 8: 3D Shapes Unit 9: Making 10	Unit 10: Numbers 10 to 20 Unit 11: Addition and Subtraction within 20 Unit 12: More on Length and Mass Unit 13: Time Unit 14: Graphs Unit 15: Doubles and Halves Unit 16: Sharing Unit 17: Number to 100 Unit 18: Money Unit 19: Capacity Unit 20: Handling Information
Two	Unit 1: Numbers to 100 Unit 2: More About Number 100 Unit 3: 2D Shapes Unit 4: 3D Shapes Unit 5: Addition with 100 Unit 6: Subtraction with 100 Unit 7: Length Unit 8: Multiplication Unit 9: Multiplying by 2, 5 and 10 Unit 10: Multiplying by 3 and 4	Unit 11: Mass Unit 12: Capacity and Volume Unit 13: Data handling Unit 14: Division Unit 15: Dividing by 2 and 3 Unit 16: Dividing by 4, 5 and 10 Unit 17: Time, Days and Months Unit 18: Doubles and Halves Unit 19: Halves and Quarters Unit 20: Angles and Movement Unit 21: Money
Three	Unit 1: Numbers up to 1000 Unit 2: More About Numbers Unit 3: 2D Shapes and 3D Shapes Unit 4: Addition and Subtraction within 1000 Unit 5: word Problem Unit 6: Length Unit 7: Multiplication Unit 8: Division	Unit 9: Mass Unit 10: Capacity Unit 11: Symmetry Unit 12: Time and Data Unit 13: Number Crunching Unit 14: Data handling Unit 15: Fractions Unit 16: More About Fractions Unit 17: Money Unit 18: Right Angle Unit 19: Position and Movement

1. Cambridge Primary MATHS First Edition - Marshall Cavendish:		
Grade	Semester 1	Semester 2
Four	Unit 1: Numbers up to 100000 Unit 2: More About Numbers Unit 3: Addition and subtraction Unit 4: Time Unit 5: Multiplication Unit 6: Division Unit 7: Pictograms and Bar Charts with Scales Unit 8: Number Crunching Unit 9: Negative Numbers	Unit 10: From 2D Shapes to 3D Shapes Unit 11: Decimals Unit 12: Length, mass and Capacity Unit 13: Angle, Direction and Position Unit 14: Fractions Unit 15: Mixed Number Unit 16: More About Fractions Unit 17: Perimeter and Area Unit 18: Handling data
Five	Unit 1: Numbers up to 999 9999 Unit 2: Addition and subtraction Unit 3: Angle Unit 4: Line and Shapes Unit 5: Multiplication and Division Unit 6: Factors, Multiples and Square Number Unit 7: Time Unit 8: Number Crunching Unit 9: More About Numbers	Unit 10: Data handling Unit 11: Decimals Unit 12: Adding, Subtracting and Multiplying Decimals Unit 13: More on Measurement Unit 14: Mixed Number and Improper Friction Unit 15: Percentages Unit 16: Ratio Unit 17: Symmetry and Triangles Unit 18: Translation and Reflection Unit 19: Area and perimeter
Six	Unit 1: Whole Numbers Unit 2: Factors, Multiples and Prime Number Unit 3: Shapes Unit 4: Operation with Whole Numbers Unit 5: Length Unit 6: Time Unit 7: More About Numbers Unit 8: Operation with Decimals	Unit 9: Mass and Volume Unit 10: Data Handling Unit 11: Perimeter and area Unit 12: Time Zones Unit 13: fraction, Mixed Number and Decimals Unit 14: Percentages Unit 15: Angle Unit 16: Transforming Shapes Unit 17: Ratio and Proportion Unit 18: Metric and Imperial Measures

2. Cambridge Primary MATHS Second Edition - Marshall Cavendish:

Grade	Semester 1	Semester 2
One	Chapter 1: Numbers 0 to 10 Chapter 2: Ordinal Numbers Chapter 3: Numbers Patterns Chapter 4: More about Numbers to 20 Chapter 5: 2D and 3D Shapes Chapter 6: Place, Direction and Movement Chapter 7: Making 10 and Doubles	Chapter 8: Addition within 20 Chapter 9: Subtraction within 20 Chapter 10: Money Chapter 11: Length, Mass, Capacity and Temperature Chapter 12: Handling Information Chapter 13: Fractions: Making Halves Chapter 14: Time
Two	Chapter 1: Numbers to 100 Chapter 2: Place Value Chapter 3: Money Chapter 4: Ordinal Numbers Chapter 5: Addition and Subtraction within 100 Chapter 6: Patterns and Chance Chapter 7: 2D and 3D Shapes Chapter 8: Number Patterns	Chapter 9: Multiplication Chapter 10: Division Chapter 11: Data Representation Chapter 12: Investigation Chapter 13: Finding Halves and Quarters Chapter 14: Combining Fraction Chapter 15: Time Chapter 16: Turns, Movements and Reflections Chapter 17: Length, Mass and Capacity
Three	CHAPTER 1: Number to 100 CHAPTER 2: Place Value and Rounding CHAPTER 3: Addition and Subtraction CHAPTER 4: Time CHAPTER 5: 2D and 3D Shapes CHAPTER 6: Angles, Direction and Position CHAPTER 7: Patterns with Numbers and Shapes CHAPTER 8: Length, Mass, and Capacity	Chapter 9: Perimeter and Area Chapter 10: Chance Chapter 11: Multiplication Properties and Facts Chapter 12: Multiplication and Division Chapter 13: Fractions Chapter 14: Comparing Fractions Chapter 15: Calculating with Fractions Chapter 16: Data Handling
Four	Chapter 1: Place Value and Rounding Larger Chapter 2: Introducing Negative Numbers Chapter 3: Factor and Multiples Chapter 4: Time Chapter 5: 2d Shapes Chapter 6: 3d Shapes Chapter 7: Area and Perimeter Chapter 8: Addition and Subtraction	Chapter 9: Multiplication and Division Chapter 10: Patterns and Sequence with Numbers and Objects Chapter 11: Data Representation Chapter 12: Statistical Cycle Chapter 13: Fractions Chapter 14: Calculating with Fractions Chapter 15: Angles, Position and Direction Chapter 16: Probability
Five	Chapter 1: Special Numbers Chapter 2: Number Sequences Chapter 3: Decimals Chapter 4: Time Chapter 5: Angles and Triangles Chapter 6: Perimeter and Area Chapter 7: 3d Shapes Chapter 8: Probability and Chance Chapter 9: Addition and Subtraction	Chapter 10: Multiplication and Division Chapter 11: Calculation Rules Chapter 12: Fraction, Decimals and Percentages Chapter 13: Operation on Fractions and Decimals Chapter 14: Proportion and Ratio Chapter 15: Data Handling and Representation Chapter 16: Statistical Enquiry Chapter 17: Coordinate Geometry Chapter 18: Symmetry, Reflection and Translation
Six	Chapter 1: Place Value Chapter 2: The Number System Chapter 3: Addition and Subtraction Chapter 4: Multiplication and Division Chapter 5: Number Patterns Chapter 6: Fractions, Percentages and Decimals Chapter 7: Calculations with Fractions	Chapter 8: Ratio and Proportion Chapter 9: 2d Shapes and Angles Chapter 10: 3d Shapes, Volume and Capacity Chapter 11: Data Handling and Statistical Inquiry Chapter 12: The Coordinate Grid Chapter 13: Reflection and Rotation Chapter 14: Probability

3. Max Maths Primary - Macmillan Education:

Grade	Semester 1	Semester 2
One	Unit 1: Numbers up to 20 Unit 2: Addition to 20 Unit 3: Subtraction within 20	Unit 4: Shapes and geometric reasoning Unit 5: Length Unit 6: Mass Unit 7: Capacity Unit 8: Time Unit 9: Money Unit 10: Data handling
Two	Unit 1: Numbers to 100 Unit 2: Addition Unit 3: Subtraction Unit 4: 2D and 3D shapes Unit 5: Multiplication	Unit 6: Division Unit 7: Fractions Unit 8: Length Unit 9: Mass Unit 10: Volume Unit 11: Money Unit 12: Time Unit 13: Position and movement Unit 14: Data handling
Three	Unit 1: Numbers up to 1000 Unit 2: Addition Unit 3: Subtraction Unit 4: Fractions Unit 5: Shapes and space Unit 6: Data handling	Unit 7: Multiplication Unit 8: Division Unit 9: Length, mass and volume Unit 10: Time Unit 11: Position and movement
Four	Unit 1: Numbers up to 10000 Unit 2: Addition and subtraction Unit 3: Position and movement Unit 4: Multiplication Unit 5: Division Unit 6: Handling data	Unit 7: Time Unit 8: Fractions Unit 9: Geometry Unit 10: Decimals Unit 11: Measures: length, perimeter and area, mass and volume
Five	Unit 1: Numbers up to 1000000 Unit 2: Addition and subtraction Unit 3: Geometry Unit 4: Multiplication Unit 5: Division	Unit 6: Area and perimeter Unit 7: Time Unit 8: Fractions Unit 9: Decimals Unit 10: Percentages Unit 11: Length, mass and volume Unit 12: Data handling Unit 13: Position and movement
Six	Unit 1: Numbers up to 1000000 Unit 2: Addition and subtraction Unit 3: Multiplication and division Unit 4: Length, mass and capacity Unit 5: Statistics	Unit 6: Position and movement Unit 7: Geometry Unit 8: Fractions Unit 9: Decimals Unit 10: Percentages Unit 11: Time Unit 12: Perimeter and area

4. Let's Start! – Vector:

Grade	Semester 1	Semester 2
One	Unit 1: Number to 10 Unit 2: Addition Unit 3: Subtraction Unit 4: Numbers 11 to 20 Unit 5: Addition and Subtraction up to 20 Unit 6: Length Unit 7: Mass	Unit 8: Capacity Unit 9: Number to 100 Unit 10: Shape, solids, and patterns Unit 11: Time Unit 12: Addition and subtraction up to 100 Unit 13: Position Unit 14: Money Unit 15: Data
Two	Unit 1: Number to 1000 Unit 2: Addition and Subtraction up to 100 Unit 3: Length Unit 4: Addition and subtraction up to 1000 Unit 5: Mass	Unit 6: Multiplication Unit 7: Division Unit 8: Time Unit 9: Money Unit 10: Volume Unit 11: Shapes and solids Unit 12: Data
Three	Unit 1: Number to 1000 Unit 2: Addition and subtraction up Unit 3: Data Unit 4: Length Unit 5: Time Unit 6: Mass	Unit 7 : Volume Unit 8 : Multiplication Unit 9 : Divisions Unit 10: Fraction Unit 11: Money Unit 12: Shapes and solids Unit 13: Angles
Four	Unit 1: Number to 100 000 Unit 2: Addition and subtraction up Unit 3: Geometry Unit 4: Multiplication Unit 5: Division Unit 6: Data	Unit 7: Length Unit 8: Area and perimeter Unit 9: Word problems Unit 10: Fraction Unit 11: Time Unit 12: Decimals Unit 13: Combined operation
Five	Unit 1: Number to 10 000 000 Unit 2: Operations Unit 3: Angles Unit 4: Data and probability Unit 5: Fraction Unit 6: Operations with Fraction	Unit 7: Decimals Unit 8: Operations with Decimals Unit 9: Percentage Unit 10: Quadrilaterals Unit 11: Triangles Unit 12: Solids and volume Unit 13: Ratio Unit 14: Measurement
Six	Unit 1: Number and operation Unit 2: Algebra Unit 3: Factors and multiples Unit 4: Direction Unit 5: Fraction Unit 6: Decimals Unit 7: Operations with Decimals	Unit 8: Angles and quadrilaterals Unit 9: Circles Unit 10: Percentage Unit 11: Solids, nets and volume Unit 12: Data and probability Unit 13: Ratio Unit 14: Convert measurements

5. Collins International Primary Maths First Edition – Collins:

Grade	Semester 1	Semester 2
One	Unit 1: Whole numbers 1 Unit 5: Addition and subtraction 1 Unit 10: 2D Shape Unit 11: 3D Shape Unit 12: Patterns and symmetry Unit 13: Position and Movement Unit 16: Length Unit 17: Mass Unit 2: Whole numbers 2 Unit 6: Addition and subtraction 2 Unit 8: Multiplication and Division 1	Unit 21: Handling data 1 Unit 14: Money 1 Unit 18: Capacity Unit 19: Time 1 Unit 3: Whole numbers 3 Unit 4: Fractions Unit 7: Addition and subtraction 3 Unit 9: Multiplication and division 2 Unit 22: Handling data 2 Unit 15: Money 2 Unit 20: Time 2
Two	Unit 1: Whole numbers 1 Unit 5: Addition and subtraction 1 Unit 8: Multiplication and division 1 Unit 11: 2D shape Unit 12: 3D shape Unit 13: Patterns and symmetry Unit 17: Length Unit 15: Money 1 Unit 2: Whole numbers 2 Unit 6: Addition and subtraction 2 Unit 9: Multiplication and division 2	Unit 21: Handling data Unit 18: Mass Unit 20: Time Unit 3: Whole numbers 3 Unit 4: Fractions Unit 7: Addition and subtraction 3 Unit 10: Multiplication and division 3 Unit 14: Position and movement Unit 19: Capacity Unit 16: Money 2
Three	Unit 1: Whole numbers 1 Unit 5: Addition and subtraction 1 Unit 8: Multiplication and division 1 Unit 11: 2D shape Unit 12: 3D Shape Unit 15: Length Unit 16: Mass Unit 2: Whole numbers 2 Unit 6: Addition and subtraction 2 Unit 9: Multiplication and division 2	Unit 14: Money Unit 17: Capacity Unit 19: Handling data Unit 3: Whole numbers 3 Unit 4: Fractions Unit 7: Addition and subtraction 3 Unit 10: Multiplication and division 3 Unit 13: Position and movement Unit 18: Time
Four	Unit 1: Whole numbers 1 Unit 7: Addition and subtraction 1 Unit 10: Multiplication and division Unit 16: Length Unit 17: Mass Unit 18: Capacity Unit 20: Time Unit 22: Handling data 1 Unit 2: Whole numbers 2 Unit 4: Decimals 1 Unit 8: Addition and subtraction 2 Unit 1: Multiplication and division 2	Unit 13: 2D shape, including symmetry Unit 14: 3D shape Unit 15: Position and movement Unit 21: Area and perimeter Unit 3: Whole numbers 3 Unit 5: Decimals 2 Unit 6: Fractions Unit 9: Addition and subtraction 3 Unit 12: Multiplication and division 3 Unit 19: Measures Unit 23 Handling data 2

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

6. Collins International Primary Maths Second Edition – Collins:		
Grade	Semester 1	Semester 2
One	Unit 1-4 Whole Numbers Unit 5: Addition as combining two sets Unit 6: Addition as counting on Unit 10-11: Addition and Subtraction to 10A and B Unit 21: 2D Shapes Unit 22: 3D Shapes Unit 25: Position and Movement Unit 23: Length and Mass Unit 2: Whole Numbers 2 Unit 16: Place Value and Ordering to 10 Unit 17: Place Value and Ordering to 20	Unit 7: Subtraction as take away Unit 8: Subtraction as counting back Unit 9: Subtraction as difference Unit 12-13: Addition and Subtraction A and B Unit 15: Money Unit 14: Doubling Unit 18-19: Half A and B Unit 24: Capacity and Temperature Unit 20: Time Unit 26-27: Statistics and Probability
Two	Unit 1-3: Whole Numbers 1 Unit 4-6: Addition and subtraction Unit 7: Multiplication as repeated Addition Unit 9-1: Division1 Unit 20: 2D shapes, Symmetry and Angles Unit 21: 3D shape Unit 22: Length Unit 14: Money Unit 15-16: Place, Value, Ordering and Rounding Unit 9-11: Multiplication and Division2	Unit 12-13: Times Table A and B Unit 8: Multiplication as an Array Unit 23: Mass Unit 24: Capacity and Temperature Unit 19: Time Unit 17-18: Fraction A and B Unit 25: Position and Movement Unit 26: Statistics Unit 27: Statistics and Chance
Three	Unit 1: Whole Numbers 1 Unit 4: Addition and subtraction 1 Unit 8: Multiplication and division1 Unit 20: 2D shape Unit 21: 3D Shape Unit 22: Length Unit 23: Mass Unit 2: Whole Numbers 2 Unit 6: Addition and subtraction 2 Unit 9: Multiplication and division2	Unit 13: Money Unit 24: Capacity Unit 26-27: Handling data Unit 3: Whole numbers 3 Unit 16-18: Fractions Unit 7: Addition and subtraction 3 Unit 10: Multiplication and division 3 Unit 13: Position and movement Unit 19: Time
Four	Unit 1-3: Counting Sequences A and B Reading and Writing Unit 4-6: Addition and subtraction 1 Unit 7: Times Table Unit 8: Multiples, Factors and Divisibility Unit 9: Multiplication (A) Unit 22: Measuring Instruments Unit 18: Time Unit 26: Statistics Unit 13-14: Place Value, Ordering and Rounding Unit 10: Multiplication (B) Unit 11-12: Division A and B	Unit 13: 2D shape, including symmetry Unit 19: 2D shape and Symmetry Unit 20: 3D Shapes Unit 24-25: Position, Direction, Movement and Reflection Unit 23: Area and perimeter Unit 15-16: Fractions A and B Unit 17: Percentages Unit 21: Angles Unit 27: Statistics

6. Collins International Primary Maths Second Edition – Collins:

Grade	Semester 1	Semester 2
Five	Unit 1: Whole numbers 1 Unit 2-3: Addition and subtraction 1 Unit 4: Multiples, Factors, Divisibility, Primes and Squares. Unit 6-7: Multiplication Whole numbers A and B Unit 20: 2D shapes and Symmetry Unit 21: 3D shape Unit 17: Coordinates, Translation and Reflection Unit 19: Time	Unit 26-27: Statistics and Probability Unit 8-9: Division Whole Numbers A and B Unit 10-11: Place, Value and Decimals Unit 12-13: Fractions A and B Unit 15-16: Fractions Unit 14 and 17: Percentages, Fractions and Decimals Unit 22: Angles Unit 23: Area and perimeter Unit 15: Addition and subtraction of Decimals Unit 16: Multiplication of Decimals Unit 18: Ratio and proportion
Six	Unit 1: Whole numbers 1 Unit 8: Addition and subtraction 1 Unit 1: Multiplication and division1 Unit 22: Area and perimeter Unit 18: Length Unit 14: 2D shape Unit 15: 3D shape Unit 17: Position and movement Unit 2: Whole numbers 2 Unit 3: Decimals 1 Unit 9: Addition and subtraction 2 Unit12: Multiplication and division2	Unit 19: Mass Unit 20: Capacity Unit 23: Handling data Unit 4: Decimals 2 Unit 5: Fractions Unit 6: Percentages Unit 7: Ratio and proportion Unit 10: Addition and subtraction 3 Unit 13: Multiplication and division 3 Unit 21: Time Unit 16: Angles

7. Top Maths - Alston Publishing House:		
Grade	Semester 1	Semester 2
One	Chapter 1: Numbers from 0 to 20 Chapter 2: More about Numbers Chapter 3: Shapes and Solids Chapter 4: Addition and Subtraction Chapter 5: Position and Movements Chapter 6: Doubles and Tens	Chapter 7: Money Chapter 8: Length Chapter 9: Mass Chapter 10: Capacity Chapter 11: Time Chapter 12: Handling Data
Two	Chapter 1: Numbers to 100 Chapter 2: More about Numbers Chapter 3: Shapes and Solids Chapter 4: Halves and Quarters Chapter 5: Addition and Subtraction Chapter 6: Position and Movement Chapter 7: Multiplication and Division	Chapter 8: Mental Skills Chapter 9: Money Chapter 10: Length Chapter 11: Mass Chapter 12: Capacity Chapter 13: Time Chapter 14: Handling Data
Three	Chapter 1: Numbers to 1000 Chapter 2: More about Numbers Chapter 3: Shapes and Solids Chapter 4: Addition and Subtraction Chapter 5: Position and Movement Chapter 6: Angles Chapter 7: Multiplication and Division	Chapter 8: Mental Skills Chapter 9: Fractions Chapter 10: Money Chapter 11: Length Chapter 12: Mass Chapter 13: Capacity Chapter 14: Time Chapter 15: Handling Data
Four	Chapter 1: Numbers to 10000 Chapter 2: More about Numbers Chapter 3: Shapes and Solids Chapter 4: Addition and Subtraction Chapter 5: Multiplication and Division Chapter 6: Position and Movement	Chapter 7: Mental Skills Chapter 8: Fractions Chapter 9: Decimals Chapter 10: Measurements Chapter 11: Time Chapter 14: Area and Perimeter Chapter 13: Handling Data
Five	Chapter 1: Whole Numbers Chapter 2: Shapes and Lines Chapter 3: Decimals Chapter 4: Fractions Chapter 5: Ratio Chapter 6: Mental Skills	Chapter 7: Angles Chapter 8: Position and Movement Chapter 9: Measurements Chapter 10: Percentage Chapter 11: Time Chapter 12: Area and Perimeter Chapter 13: Handling Data Chapter 14: Probability
Six	Chapter 1: Whole Numbers Chapter 2: Fractions Chapter 3: Mental Skills Chapter 4: Decimals Chapter 5: Ratio Chapter 6: Percentage	Chapter 7: Shapes, Solids and Angles Chapter 8: Position and Movement Chapter 9: Measurement Chapter 10: Time Chapter 11: Area and Perimeter Chapter 12: Handling Data Chapter 13: Probability

8. Cambridge Primary Mathematics First Edition - Cambridge University Press:

Grade	Semester 1	Semester 2
One	<p>1A: Number and Problem Solving</p> <p style="padding-left: 20px;">1 Counting to ten</p> <p style="padding-left: 20px;">2 Playing with ten</p> <p>1C: Measure and Problem Solving</p> <p style="padding-left: 20px;">3 Length</p> <p>1A: Number and Problem Solving</p> <p style="padding-left: 20px;">4 Counting over ten</p> <p style="padding-left: 20px;">5 Estimating</p> <p>1B: Geometry and Problem Solving</p> <p style="padding-left: 20px;">6 2D & 3D shapes and patterns</p> <p>1A: Number and Problem Solving</p> <p style="padding-left: 20px;">7 Counting beyond 20</p> <p>1C: Measure and Problem Solving</p> <p style="padding-left: 20px;">8 Capacity (1)</p> <p style="padding-left: 20px;">9 Money & time</p> <p style="padding-left: 20px;">10 Comparing weight</p> <p>2A: Number and Problem Solving</p> <p style="padding-left: 20px;">11 Odd & even numbers</p> <p style="padding-left: 20px;">12 Ordering numbers (1)</p> <p style="padding-left: 20px;">13 Combine and take away</p> <p style="padding-left: 20px;">14 Ordering numbers (2)</p> <p>2C: Measure and Problem Solving</p> <p style="padding-left: 20px;">15 Money</p>	<p>16 Ordering length & weight</p> <p>17 Measuring & estimating capacity (2)</p> <p>18 Minutes, days & months</p> <p>2B: Handling Data and Problem Solving</p> <p style="padding-left: 20px;">19 Organizing, categorizing & representing data (1)</p> <p>3A: Number and Problem Solving</p> <p style="padding-left: 20px;">20 Number & the number system: counting in tens</p> <p style="padding-left: 20px;">21 Number line, counting on & counting back</p> <p style="padding-left: 20px;">22 Doubles & halves</p> <p style="padding-left: 20px;">23 Addition & subtraction: number patterns</p> <p>3C: Measure and Problem Solving</p> <p style="padding-left: 20px;">24 Money</p> <p style="padding-left: 20px;">25 Comparing length & weight</p> <p style="padding-left: 20px;">26 Further estimation & comparing of capacity</p> <p style="padding-left: 20px;">27 Telling the time & months of the year</p> <p>3B: Handling Data and Problem Solving</p> <p style="padding-left: 20px;">28 Organizing, categorizing & representing data (2)</p>
Two	<p>1A: Number and Problem Solving</p> <p style="padding-left: 20px;">1 The 100 squares</p> <p style="padding-left: 20px;">2 Counting in twos, fives & tens</p> <p style="padding-left: 20px;">3 Number line to 100</p> <p style="padding-left: 20px;">4 Using a number line</p> <p style="padding-left: 20px;">5 Playing with 20</p> <p style="padding-left: 20px;">6 Adding & subtracting (1)</p> <p style="padding-left: 20px;">7 Multiplication arrays</p> <p>1B: Geometry and Problem Solving</p> <p style="padding-left: 20px;">8 2D shapes, 3D shapes and symmetry</p> <p>1C: Measure and Problem Solving</p> <p style="padding-left: 20px;">9 Measuring length</p> <p style="padding-left: 20px;">10 Measuring time & distance</p> <p style="padding-left: 20px;">11 Measuring weight, time & cost</p> <p>2A: Number and Problem Solving</p> <p style="padding-left: 20px;">12 Tens and ones to 100</p> <p style="padding-left: 20px;">13 Estimating</p> <p style="padding-left: 20px;">14 Number patterns</p> <p style="padding-left: 20px;">15 Adding & subtracting (2)</p> <p style="padding-left: 20px;">16 Finding the difference</p> <p style="padding-left: 20px;">17 Grouping & sharing</p> <p>2B: Handling Data and Problem Solving</p> <p style="padding-left: 20px;">18 Handling data</p>	<p>2C: Measure and Problem Solving</p> <p style="padding-left: 20px;">19 Length, height & capacity</p> <p style="padding-left: 20px;">20 Capacity, volume & 1 liter</p> <p style="padding-left: 20px;">21 Investigating weight, length & time</p> <p>3A: Number and Problem Solving</p> <p style="padding-left: 20px;">22 More doubles</p> <p style="padding-left: 20px;">23 Threes & fours</p> <p style="padding-left: 20px;">24 Sums & differences</p> <p style="padding-left: 20px;">25 Fraction</p> <p style="padding-left: 20px;">26 Multiplying & dividing</p> <p style="padding-left: 20px;">27 Ordering numbers</p> <p>3B: Geometry and Problem Solving</p> <p style="padding-left: 20px;">28 Tangrams</p> <p style="padding-left: 20px;">29 Position & movement</p> <p style="padding-left: 20px;">30 2D shapes</p> <p>3C: Measure and Problem Solving</p> <p style="padding-left: 20px;">31 More on length, mass, money and time</p> <p style="padding-left: 20px;">32 Passing time & spending money</p>

8. Cambridge Primary Mathematics First Edition - Cambridge University Press:

Grade	Semester 1	Semester 2
Three	<p>1A: Number and Problem Solving</p> <p>1 Place value (1)</p> <p>2 Playing with 10 and 100</p> <p>3 Adding several small numbers</p> <p>4 Doubling & halving</p> <p>5 Number pairs</p> <p>6 Multiples</p> <p>1B: Geometry and Problem Solving</p> <p>7 Shapes, shapes & more shapes</p> <p>8 Symmetry & movement</p> <p>1C: Measure and Problem Solving</p> <p>9 Money (1)</p> <p>10 Time (1)</p> <p>11 Measures</p> <p>2A: Number and Problem Solving</p> <p>12 Place value (2)</p> <p>13 Estimating & rounding</p> <p>14 Doubles & halves</p> <p>15 Addition & subtraction</p> <p>16 More multiples</p> <p>2B: Measure and Problem Solving</p> <p>17 Time (2)</p> <p>18 Estimating & measuring</p>	<p>19 Zoo shop & café</p> <p>2C: Handling Data and Problem Solving</p> <p>20 Handling data</p> <p>3A: Number and Problem Solving</p> <p>21 Number sense</p> <p>22 Fractions</p> <p>23 More doubles</p> <p>24 More addition & subtraction</p> <p>25 Multiplying & dividing</p> <p>3B: Geometry and Problem Solving</p> <p>26 Right angles</p> <p>27 Symmetry</p> <p>28 Movement</p> <p>3C: Measure and Problem Solving</p> <p>29 Time (3)</p> <p>30 Money (2)</p> <p>31 Capacity & length</p> <p>32 Weight</p>
Four	<p>1A: Number and Problem Solving</p> <p>1 Numbers & the number system</p> <p>2 Addition & subtraction (1)</p> <p>3 Multiplication & division (1)</p> <p>1B: Measure and Problem Solving</p> <p>4 Weight</p> <p>5 Time (1)</p> <p>6 Area & perimeter (1)</p> <p>1C: Handling data and Problem Solving</p> <p>7 Graphs, tables & charts (1)</p> <p>8 Carroll & Venn diagrams</p> <p>2A: Number and Problem Solving</p> <p>9 The number system & properties of number</p> <p>10 Addition & subtraction (2)</p> <p>11 Multiplication & division (2)</p> <p>2B: Geometry and Problem Solving</p> <p>12 Angles, position & direction</p> <p>13 Symmetry</p>	<p>14 2D & 3D shapes</p> <p>2C: Measure and Problem Solving</p> <p>15 Length</p> <p>16 Time (2)</p> <p>17 Area & perimeter (2)</p> <p>3A: Number and Problem Solving</p> <p>18 Special numbers</p> <p>19 Fractions & divisions</p> <p>20 Ration & proportion</p> <p>3B: Measure and Problem Solving</p> <p>21 Capacity</p> <p>22 Time (3)</p> <p>23 Area & perimeter (3)</p> <p>3C: Handling Data and Problem Solving</p> <p>24 Graphs, tables & charts (2)</p> <p>25 Venn & Carroll diagrams</p>

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

9. Cambridge Primary Mathematics Second Edition - Cambridge University Press:

Grade	Semester 1	Semester 2
One	Unit 1: Numbers to 10 1.1 Counting and Comparing numbers 1.2 Read and write numbers and spelling to 10 Unit 2: Geometry 1 2.1 2D and 3D Shapes Unit 3: Fraction 1 3.1 Making half of shapes Unit 4: Measures 1 4.1 Length Unit 5: working with Numbers to 10 1.1 Addition and subtraction Unit 6: Position 6.1 Ordinal numbers Unit 7: Statistics 1 7.1 Sets and Venn diagram Unit 8: Time 1	Unit 9: Numbers to 20 9.1 Counting to 20 9.2 Comparing and ordering numbers and number pattern Unit 10: Geometry 2 10.1 2D and 3D shapes Unit 11: Fractions 2 11.1 making half of numbers Unit 12: Measures 2 12.1 Mass and Capacity Unit 13: Working with numbers to 20 13.1 Addition and Subtraction using number line Unit 14: Statistics 2 14.1 Carroll diagram, pictograms, and block graph Unit 15: Time 2 15.1 Days of the week and months of the year Unit 16: Position, direction, and patterns
Two	Unit1: Numbers to 100 1.1 Read and write up to 100, 1.2 Counting and Comparing numbers Unit2: Geometry 1 2.1 2D and 3D Shapes 2.2 Fractions of shapes Unit 3: Measures 1 3.1 Length Unit 4: Statistics 1 4.1 Carroll diagram and tally chart Unit 5: Working with numbers to 100 1.2 Addition and subtraction 1.3 Multiplication and division Unit 6: Money Unit 7: Time 7.1 Units of time and the calendar	Unit 8: Numbers to 100 8.1 Numbers in words 8.2 Fractions of numbers Unit 9: Statistics 2 9.1 Venn diagram, pictograms, and block graphs Unit 10: Calculating 10.1 Addition and Subtraction (2-digit) 10.2 Multiplication and division Unit 11: Geometry 2 11.1 Angles and turns Unit 12: Telling the time Unit 13: Measures 2 13.1 Mass 13.2 Capacity Unit 14: Pattern and Probability Unit 15: Symmetry, Position and Movement
Three	Unit1: Numbers to 1000 1.1 Place Values 1.2 Comparing and Ordering 1.3 Estimation Unit2: Statistics: Tally charts and frequency Tables Unit 3: Addition, Subtraction and Money Unit 4: 3D Shapes Unit 5: Multiplication and division Unit 6: Measurement, area, and Perimeter Unit 7: Fractions of Shapes Unit 8: Time Unit 9: More addition and Subtraction 9.1 Addition and subtraction with regrouping tens	Unit 10: Graphs 10.1 Pictograms and bar charts 10.2 Venn and Carroll diagram Unit 11: More Multiplication and division Unit 12: More Fractions 12.1 Ordering and comparing numbers 12.2 Calculating Fractions Unit 13: Measure 13.1 Mass 13.2 Capacity and Temperature Unit 14: Time 2 14.1 Time and Timetables Unit 15: Angles and Movement 15.1 Angles, direction, position, and movement Unit 16: Chance Unit 17: Pattern and Symmetry

9. Cambridge Primary Mathematics Second Edition - Cambridge University Press:

Grade	Semester 1	Semester 2
Four	Unit1: Numbers and the number system Unit2: Time and Timetables Unit 3: Addition, Subtraction of whole numbers Unit 4: Probability Unit 5: Multiplication, multiples and factors Unit 6: 2D Shapes Unit 7: Fractions 7.1 Understanding Fractions 7.2 Fractions as Operators Unit 8: Angles 8.1 Comparing angles 8.2 Acute and Obtuse 8.3 Estimating angles Unit 9: Comparing, rounding, and dividing 9.1 Rounding, ordering, and comparing whole numbers 9.2 Division of 2-digit numbers	Unit 10: Collecting and Recording Data Unit 11: Fractions and Percentages 11.1 Equivalence, Ordering and comparing fractions 11.2 Percentage Unit 12: Investigating 3D Shapes and nets Unit 13: Addition and Subtraction 13.1 Adding and subtracting efficiently 13.2 Adding and subtracting fractions with same denominator Unit 14: Area and Perimeter 14.1 Estimating and measuring area and perimeter Unit 15: Special Numbers 15.1 Ordering and comparing Numbers 15.2 Test of divisibility Unit 16: Data display and interpretation Unit 17: Multiplication and Division 17.1 Using an efficient column method for multiplication Unit 18: Position, direction, and movement
Five	Unit1: The Number system 1.1 Understanding Place Value 1.2 Rounding Decimals Numbers Unit2: 2D Shapes and Patterns (Triangles and symmetry) Unit 3: Number and Sequences 3.1 Square and triangular numbers 3.2 Prime and composite numbers Unit 4: Averages 4.1 Mode and Median Unit 5: Addition and Subtraction 5.1 Addition and Subtraction including decimals and negative numbers Unit 6: 3D Shapes 6.1 Net of cubes and drawing 3D Shapes Unit 7: Fractions, decimals, and percentages 7.1 Understanding Fractions 7.2 Percentages, decimals, and fractions Unit 8: Probability 8.1 Experiments and simulation Unit 9: Addition and Subtraction of Fractions	Unit 10: Angles Unit 11: Multiplication and Division Unit 12: Data 12.1 Representing and interpreting data 12.2 Frequency diagram and line graphs Unit 13: Ratio and Proportion Unit 14: Area and Perimeter Unit 15: Multiplying and dividing fractions and decimals 15.1 Multiplying and dividing fractions 15.2 Multiplying a decimal and a whole number Unit 16: Time 16.1 Time Intervals and time zones Unit 17: Number and the laws of arithmetic Unit 18: Position and direction

9. Cambridge Primary Mathematics Second Edition - Cambridge University Press:

Grade	Semester 1	Semester 2
Six	Unit1: The Number system 1.1 Understanding Place Value 1.2 Rounding Decimals Numbers Unit2: Numbers and Sequences 2.1 Special numbers 2.2 Common multiples and factors Unit 3: Averages 3.1 Mode, median, mean and range Unit 4: Addition and Subtraction 1 4.1 Positive and negative numbers 4.2 Using letters to represent numbers Unit 5: 2D Shapes 5.1 Quadrilaterals and circles 5.2 Rotational Symmetry Unit 6: Fractions and percentages 6.1 Understanding Fractions 6.2 Percentages 6.3 Equivalence and comparison Unit 7: Exploring Measures 7.1 Rectangles and triangles 7.2 Time Unit 8: Addition and Subtraction 2 8.1 Adding and subtracting decimals numbers and fractions Unit 9: Probability	Unit 10: Multiplication and Division 1 Unit 11: 3D Shapes 11.1 Shapes and Nets 1.2 Capacity and volume Unit 12: Ratio and Proportion Unit 13: Angles 13.1 Measuring and drawing angles 13.2 Angles in a triangle Unit 14: Multiplication and Division 2 14.1 Multiplying and dividing fractions 14.2 Multiplying and dividing decimals Unit 15: Data 15.1 Bar charts, dot plots, waffle diagram and pie charts 15.2 Frequency diagrams, line graphs and scatter graphs Unit 16: The laws of arithmetic Unit 17: Transformations 17.1 Coordinates and transformations 17.2 Reflections and Rotations

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

10. Hodder Cambridge Primary Mathematics First Edition - Hodder Education:		
Grade	Semester 1	Semester 2
Three	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 5: Problem solving and review 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	Unit 8: Number and problem solving 8a Addition and subtraction 8b Multiplication and division 8c Calculation problems Unit 9: Handling data and problem solving 9a Sorting numbers and shapes 9b Charts, graphs and tables Unit 10: Problem solving and review 10a Problem solving Unit 11: Number and problem solving 11a Number and place value 11b Fractions 11c Fractions and amounts Unit 12: Geometry and problem solving 12a 2-D shapes 12b Position and movement 12c 3-D shapes Unit 13: Number and problem solving 13a Mental strategies 13b Addition and subtraction 13c Multiplication and division Unit 14: Measure and problem solving 14a Money 14b Capacity 14c Time Unit 15: Problem solving and review 15a Problem solving
Four	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 Classifying shapes 4b 3-D and 2-D shapes 4c Position and movement 4d 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 7d Problem solving	Unit 8: Number and problem solving 8a Number patterns 8b Multiplication and division 8c Problem solving Unit 9: Handling data and problem solving 9a Handling data 9b Problem solving Unit 10: Problem solving and review 10a Problem solving Unit 11: Number and problem solving 11a Numbers and the number system 11b Fractions and decimals 11c Addition and subtraction Unit 12: Measures and problem solving 12a the metric system 12b Area and perimeter 12c Time 12d Problem solving Unit 13: Number and problem solving 13a Number patterns 13b Multiplication and division 13c Problem solving Unit 14: Geometry and problem solving 14a Classifying shapes 14b 3-D and 2-D shapes 14c Position and movement Unit 15: Problem solving and review 15a Problem solving

10. Hodder Cambridge Primary Mathematics First Edition - Hodder Education:

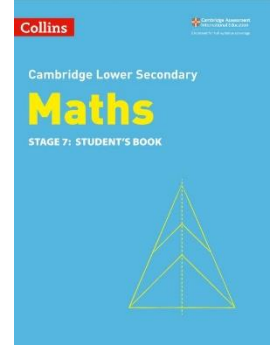
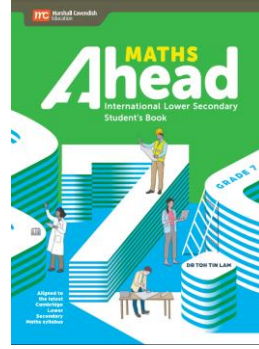
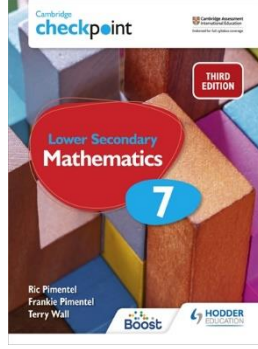
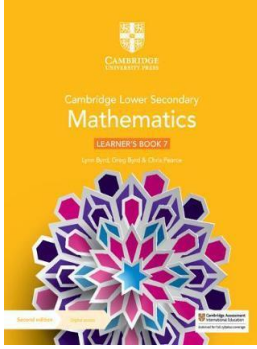
Grade	Semester 1	Semester 2
Five	Unit 1: Number and problem solving 1a Place value and the number system 1b Rounding and estimating 1c Addition and subtraction Unit 2: Measures and problem solving 2a the metric system 2b Length, area and perimeter 2c Time 2d Problem solving Unit 3: Number and problem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

11. Hodder Cambridge Primary Mathematics Second Edition - Hodder Education:

Grade	Semester 1	Semester 2
One	Unit 1: Numbers to 20 Unit 2: Addition and Subtraction Unit 3: Shapes, Direction and Movement Unit 4: Statistical methods Unit 5: Numbers to 20 Unit 6: Time and Measurement Unit 7: Statistical methods Unit 8: Shapes, Direction and Movement Unit 9: Numbers to 20	Unit 10: Time and Measurement Unit 11: Addition and Subtraction Unit 12: Fraction Unit 13: Numbers to 20 Unit 14: Addition and Subtraction Unit 15: Shapes, Direction and Movement Unit 16: Statistical methods Unit 17: Fraction Unit 18: Time and Measurement
Two	Unit 1: Number to 100 Unit 2: Addition and Subtraction 1 Unit 3: Shapes, Direction and Movement 1 Unit 4: Statistical Methods and Chance 1 Unit 5: Multiplication and Division 1 Unit 6: Time and Measurement 1 Unit 7: Addition and Subtraction 2 Unit 8: Money Unit 9: Number patterns and place Value 1	Unit 10: Time and Measurement 2 Unit 11: Shapes, Direction and Movement 2 Unit 12: Fractions 1 Unit 13: Statistical Methods and Chance 2 Unit 14: Number patterns and place Value 2 Unit 15: Addition and Subtraction 2 Unit 16: Multiplication and Division 2 Unit 17: Fractions 2 Unit 18: Time and Measurement 3
Three	Unit 1: Numbers to 1000 Unit 2: Addition and Subtraction 1 Unit 3: Shapes and Angles 1 Unit 4: Statistical Methods and Chance 1 Unit 5: Multiplication and Division 1 Unit 6: Time and Measurement 1 Unit 7: Addition and Subtraction 2 Unit 8: Patterns, Place Value and Division	Unit 9: Multiplication and Division 2 Unit 10: Time and Measurement 2 Unit 11: Shapes and Angles 2 Unit 12: Fractions 1 Unit 13: Patterns, Place Value and Rounding Unit 14: Addition and Subtraction 2 Unit 15: Time and Measurement 2 Unit 16: Multiplication and Division 2 Unit 17: Fractions 2 Unit 18: Statistical Methods and Chance 2
Four	Unit 1: Number Unit 2: 2D Shapes Unit 3: Calculation 1 Unit 4: Time 1 Unit 5: Statistical Methods Unit 6: Fractions 1 Unit 7: Calculation 2 Unit 8: Probability Unit 9: Number 2	Unit 9: Number 2 Unit 10: 2D and 3D Shapes Unit 11: Fractions 2 Unit 12: Angles, Position and Direction 1 Unit 13: Number 3 Unit 14: Statistical Methods 2 Unit 15: Calculation 3 Unit 16: Time 2 Unit 17: Fractions and Percentages Unit 18: Angles, Position and Direction 2
Five	Unit 1: Number Unit 2: Angles and Shapes Unit 3: Calculation 1 Unit 4: Time 1 Unit 5: Statistical Methods 1 Unit 6: Fraction, Decimals, Percentages and Proportion Unit 7: Number 2 Unit 8: Probability Unit 9: Calculation Unit 10: Location and Movement	Unit 11: Fraction, Decimals, Percentages and Proportion Unit 12: Angles and Shapes Unit 13: Number 2 Unit 14: Location and Movement Unit 15: Calculation Unit 16: Statistical Methods 2 Unit 17: Fraction, Decimals, Percentages and Proportion Unit 18: Time 2
Six	Unit 1: Number 1 Unit 2: 2D and 3D Shapes 1 Unit 3: Calculation 1 Unit 4: Statistical Methods 1 Unit 5: Fraction, Decimals, Ratio Percentages and Proportion Unit 6: Probability Unit 7: Number 2 Unit 8: The coordinate grid 1 Unit 9: Calculation 2	Unit 10: Probability Unit 11: Fraction, Decimals, Ratio Percentages and Proportion Unit 12: 2D and 3D Shapes 2 Unit 13: Number 3 Unit 14: The coordinate grid 2 Unit 15: Calculation 3 Unit 16: 2D and 3D Shapes 3 Unit 17: Fraction, Decimals, Ratio Percentages and Proportion Unit 18: Statistical Methods 2

الفصل الثالث: الصفوف الدراسية (٧-٨)

Section (3): Grades (7-8)



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Teaching Aids	41	الوسائل التعليمية
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قائمة السلاسل التعليمية الأساسية المعتمدة ومكوناتها الإلزامية لمادة الرياضيات – الصفوف (٧-٨)

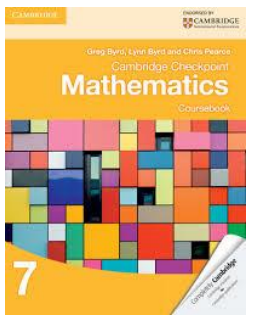
List of Approved Series and their Compulsory Components – Grades (7- 8)

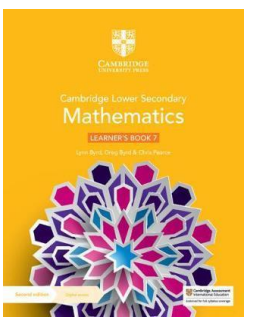
	Titles	Publisher	Components	Grade	Comments
1	Cambridge Checkpoint Mathematics 1 st Edition	Cambridge University Press	Coursebook 7	7	Last year of approval
			Practice Book 7		
			Teacher's Resource (CD) 7		
			Coursebook 8	7 & 8	
			Practice Book 8		
			Teacher's Resource (CD) 8		
			Coursebook 9	8	
			Practice Book 9		
			Teacher's Resource (CD) 9		
2	Cambridge Lower Secondary Mathematics 2 nd Edition	Cambridge University Press	Learner's Book 7	7	New Arrival
			Workbook 7		
			Teacher's Resource 7		
			Learner's Book 8	7 & 8	
			Workbook 8		
			Teacher's Resource 8		
			Learner's Book 9	8	
			Workbook 9		
			Teacher's Resource 9		
3	Maths SMART For Cambridge Lower Secondary	Alston Publishing House	Learner's Book 7	7	Last year of approval
			Teacher's Resource 7 - online	7 & 8	
			Learner's Book 8		
			Teacher's Resource 8 - online	8	
			Learner's Book 9		
Teacher's Resource 9 - online					
4	Cambridge Checkpoint Maths 1 st Edition	Hodder Education	Student's Book 1	7	Last year of approval
			Workbook 1		
			Digital Teacher's Resource Book 1		
			Student's Book 2	7 & 8	
			Workbook 2		
			Digital Teacher's Resource Book 2		
			Student's Book 3	8	
Workbook 3					
Digital Teacher's Resource Book 3					
5	Cambridge Checkpoint Lower Secondary Maths 3 rd Edition	Hodder Education	Student's Book 7	7	New Arrival
			Workbook 7		
			Teacher's Guide 7		
			Student's Book 8	7 & 8	
			Workbook 8		
			Teacher's Guide 8		
			Student's Book 9	8	
			Workbook 9		
Teacher's Guide 9					

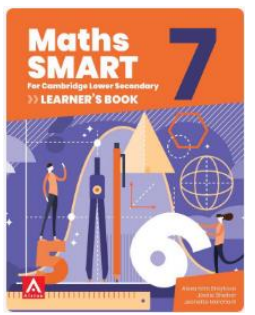
	Titles	Publisher	Components	Grade	Comments
6	Oxford International Math (For Cambridge Secondary 1)	Oxford University Press	Student Book 1	7	Last year of approval
			Homework Book1 (pack of 15)		
			Teacher Pack with (CD)1		
			Student Book 2	7 & 8	
			Homework Book 2(pack of 15)		
			Teacher Pack with (CD)2		
			Student Book 3	8	
Homework Book 3(pack of 15)					
Teacher Pack with (CD)3					
7	Cambridge Lower Secondary Maths 2 nd Edition	Collins	Student Book 7	7	New Arrival
			Workbook 7		
			Teacher's Guide 7		
			Student Book 8	7 & 8	
			Workbook 8		
			Teacher's Guide 8		
			Student Book 9	8	
			Workbook 9		
Teacher's Guide 9					

أرقام الـ ISBNs لمكونات السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات – الصفوف (٧-٨)

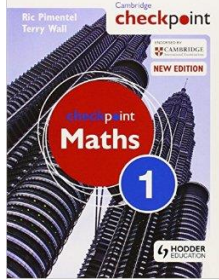
ISBNs of the Approved Series Components - Grades (7- 8)

1. Cambridge Checkpoint Mathematics 1 st Edition - Cambridge University Press:				
Component	Grade	ISBN	Note	Book Cover
Coursebook 7	7	9781107641112	For student	
Practice Book 7		9781107695405	For student	
Teacher's Resource (CD) 7		9781107693807	For teacher	
Coursebook 8	7 & 8	9781107697874	For student	
Practice Book 8		9781107665996	For student	
Teacher's Resource (CD) 8		9781107622456	For teacher	
Coursebook 9	8	9781107668010	For student	
Practice Book 9		9781107698994	For student	
Teacher's Resource (CD) 9		9781107693975	For teacher	

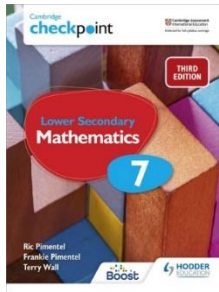
2. Cambridge Checkpoint Mathematics 2 nd Edition - Cambridge University Press:				
Component	Grade	ISBN	Note	Book Cover
Learner's Book 7	7	9781108771436	For student	
Workbook 7		9781108746366	For student	
Teacher's Resource 7		9781108771405	For teacher	
Learner's Book 8	7 & 8	9781108771528	For student	
Workbook 8		9781108746403	For student	
Teacher's Resource 8		9781108771450	For teacher	
Learner's Book 9	8	97811087837747	For student	
Workbook 9		9781108746502	For student	
Teacher's Resource 9		9781108783897	For teacher	

3. Maths SMART For Cambridge Lower Secondary – Alston Publishing House:				
Component	Grade	ISBN	Note	Book Cover
Learner's Book 7	7	9789813180918	For student	
Teacher's Resource 7 - online		9789813183032	For teacher	
Learner's Book 8	7 & 8	9789813180925	For student	
Teacher's Resource 8 - online		9789813183049	For teacher	
Learner's Book 9	8	9789813180932	For student	
Teacher's Resource 9 - online		9789813183056	For teacher	

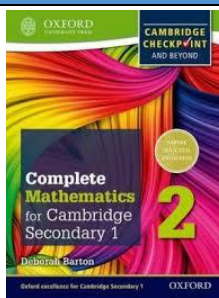
4. Cambridge Checkpoint Maths 1st Edition - Hodder Education:

Component	Grade	ISBN	Note	Book Cover
Student's Book 1	7	9781444143959	For student	
Workbook 1		9781444144017	For student	
Digital Teacher's Resource Book1		9781444143928	For teacher	
Student's Book2	7 & 8	9781444143973	For student	
Workbook 2		9781444144031	For student	
Digital Teacher's Resource Book2		9781444143935	For teacher	
Student's Book 3	8	9781444143997	For student	
Workbook 3		9781444144055	For student	
Digital Teacher's Resource Book3		9781444143942	For teacher	

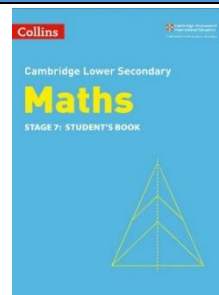
5. Cambridge Checkpoint Maths 2nd Edition - Hodder Education:

Component	Grade	ISBN	Note	Book Cover
Student's Book 7	7	9781398301948	For student	
Workbook 7		9781398301269	For student	
Teacher's Guide 7		9781398300729	For teacher	
Student's Book8	7 – 8	9781398302044	For student	
Workbook 8		9781398301306	For student	
Teacher's Guide 8		9781398300743	For teacher	
Student's Book 9	8	9781398301993	For student	
Workbook 9		9781398301283	For student	
Teacher's Guide 9		9781398300736	For teacher	

6. Oxford International Math (For Cambridge Secondary 1) – Oxford University Press:

Component	Grade	ISBN	Note	Book Cover
Student Book 1	7	9780199137046	For student	
Homework Book1 (pack of 15)		9780199137060	For student	
Teacher Pack with (CD)1		9780199137053	For teacher	
Student Book 2	7 – 8	9780199137077	For student	
Homework Book 2(pack of 15)		9780199137091	For student	
Teacher Pack with (CD)2		9780199137084	For teacher	
Student Book 3	8	9780199137107	For student	
Homework Book 3(pack of 15)		9780199137121	For student	
Teacher Pack with (CD)3		9780199137114	For teacher	

7. Cambridge Lower Secondary Mathematics – Collins:

Component	Grade	ISBN	Note	Book Cover
Student Book 7	7	9780008340858	For student	
Workbook 7		9780008378561	For student	
Teacher's Guide 7		9780008378592	For teacher	
Student Book 8	7 – 8	9780008378547	For student	
Workbook 8		9780008378578	For student	
Teacher's Guide 8		9780008378608	For teacher	
Student Book 9	8	9780008378554	For student	
Workbook 9		9780008378585	For student	
Teacher's Guide 9		9780008378615	For teacher	

Teaching Aids - Grades (7- 8)

Schools must provide the following teaching aids:

على المدارس توفير الوسائل التعليمية الآتية:

1. Master Mathematical Instruments (for teacher use): Two set squares, a 180° protractor, a ruler, a compass. ١. أدوات هندسية بحجم كبير لاستخدام المعلم على السبورة: المثلث الثلاثيني السيني والمثلث متساوي الساقين، منقلة، مسطرة، فرجار.
2. A range of measurement tools for: Weight, length, distances, and capacity. ٢. مجموعة أدوات القياس لكل مما يلي: الأوزان، الأطوال، المسافات، السعة.
3. Grid whiteboard (In addition to the normal whiteboard). ٣. سبورة الرسم البياني (بالإضافة للسبورة العادية في الفصل).
4. Different sets of dices with different number of sides. ٤. مجموعة من أحجار النرد متنوعة في عدد الأوجه.
5. A laptop for each teacher. ٥. جهاز حاسوب لكل معلم.
6. Projectors. ٦. أجهزة عرض.
7. Internet connection. ٧. شبكة إنترنت متاحة.

Content Distribution - Grades (7- 8)

1. Cambridge Checkpoint Mathematics 1 st Edition - Cambridge University Press:		
Grade 7		
Semester	Chapters	Main Resource
1 st Semester	Unit 1: Integers	Coursebook 7: From page 7 to page 151
	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	
2 nd Semester	Unit 16: Probability	Coursebook 7: From page 152 to page 194
	Unit 17: Position and movement	
	Unit 18: Area, perimeter, and volume	
	Unit 19: Interpreting and discussing results	
	Unit 1: Integers, powers, and roots	Coursebook 8: From page 7 to page 101
	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		

1. Cambridge Checkpoint Mathematics 1st Edition - Cambridge University Press:

Grade 8

Semester	Chapters	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
	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. Cambridge Checkpoint Mathematics 2nd Edition - Cambridge University Press:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Unit 1: Integers Unit 2: Expressions, formulae and equations Unit 3: Place value, ordering and rounding Unit 4: Decimals Unit 5: Angles and constructions Unit 6: Collecting data Unit 7: Fraction Unit 8: Shapes and symmetry Unit 9: Sequences and Functions Unit 10: Percentages Unit 11: Graphs Unit 12: Ratio and proportion	Workbook 7: From page 7 to page 161
	Unit 13: Probability Unit 14: Position and movement Unit 15: Shapes, Area, and volume Unit 16: Interpreting and discussing results	Workbook 7: From page 164 to page 247
2 nd Semester	Unit 1: Integers Unit 2: Sequences, expressions, and formulae Unit 3: Place value, ordering and rounding Unit 4: Decimals Unit 5: Angles and constructions Unit 6: Collecting data Unit 7: Fraction Unit 8: Shapes and symmetry	Workbook 8: From page 7 to page 105
	Unit 9: Sequences and functions Unit 10: Percentages Unit 11: Graphs Unit 12: Ratio and proportion Unit 13: Probability Unit 14: Position and transformation Unit 15: Distance, area, and volume Unit 16: Interpreting and discussing results	WorkBook8: From page 112 to page 232
1 st Semester	Unit 1: Number and calculation Unit 2: Expressions and formulae Unit 3: Decimals, percentages and rounding Unit 4: Equations and inequalities	WorkBook9: From page 7 to page 63
	Unit 5: Angles Unit 6: Statistical investigations Unit 7: Shapes and measurements Unit 8: Fractions Unit 9: Sequences and functions Unit 10: Graphs Unit 11: Ratio and proportion Unit 12: Probability Unit 13: Position and transformation Unit 14: Volume, surface area and symmetry Unit 15: Interpreting and discussing results	Workbook 9: From page 66 to page 203

Grade 8

3. Maths SMART For Cambridge Lower Secondary – Alston Publishing House:

Grade 7

Semester	Chapters	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 Unit 6: Angles and Their Properties Unit 7: Data Handling Unit 8: Fractions Unit 9: Terms and Sequences Unit 10: Shapes and Symmetry Unit 11: Coordinate Geometry Unit 12: Percentages 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: Integers 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
Grade 8		
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: Integers 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: Percentages 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

4. Cambridge Checkpoint Maths 1st Edition - Hodder Education:

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)
2 nd Semester	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)
	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)

4. Cambridge Checkpoint Maths 1st Edition - Hodder Education:

Grade 8

Semester	Chapters	Main Resource
1 st Semester	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)

5. Cambridge Checkpoint Maths 2nd Edition - Hodder Education:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Unit 1: Addition, subtraction, Multiplication and Division Unit 2: Properties of two-dimensional shapes Unit 3: Data collection and sampling Unit 4: Area of triangle Unit 5: Order of operations Unit 6: Algebra beginning- using letters for unknown numbers Unit 7: Organizing and presenting Unit 8: Properties of three- dimensional shapes Unit 9: Multiples and factors Unit 10: Probability and the likelihood of events Unit 11: Rounding and estimation – calculations with decimals Unit 12: Mode, mean, median, and range Unit 13: Transformations of two-dimensional shapes Unit 14: Manipulating algebraic expressions Unit 15: Fractions, decimals and percentages Unit 16: Probability and outcomes Unit 17: Angle properties Unit 18: Algebraic expressions and formulae Unit 19: Probability experiments Unit 20: Introduction to equations and inequalities Unit 21: Sequences Unit 22: Percentages of whole numbers Unit 23: Coordinates	Student's Book 7: From page 1 to page 185
2 nd Semester	Unit 24: Introduction to functions Unit 25: Coordinates and two – dimensional shapes Unit 26: Squares, square roots, cubes, and cube roots Unit 27: Linear functions Unit 28: Converting units and scale drawings Unit 29: Ratio Unit 30: Graphs and rates of change	Student's Book 7: From page 192 to page 247
	Unit 1: Multiplication and division Unit 2: Hierarchy of quadrilaterals Unit 3: Data collection and sampling methods Unit 4: Parallelograms, trapezia, and circles Unit 5: Order of operations Unit 6: Expressions, formulae, and equations Unit 7: Recording, organizing, and representing data Unit 8: Properties of three – dimensional shapes Unit 9: Factors and multiples Unit 10: Complementary Unit 11: Decimals and place valu Unit 12: Comparing and interpreting Unit 13: Transformation of 2D shapes Unit 14: Fractions and decimals Unit 15: Manipulating algerbraic expressions	Student's Book 8: From page 1 to page 127

5. Cambridge Checkpoint Maths 2nd Edition - Hodder Education:

Grade 8

Semester	Chapters	Main Resource
1 st Semester	Unit 16: Combined events Unit 17: Constructions, lines, and angles Unit 18: Algebraic expressions and formulae Unit 19: Probability experiments Unit 20: Equations and inequalities Unit 21: Describing sequences Unit 22: Percentage increases and decreases Unit 23: 2D representations of 2D shapes Unit 24: Functions Unit 25: Geometry and translations Unit 26: Squares, square roots, cubes, and cube roots Unit 27: Graphs and equations of straight lines Unit 28: Distances and bearings Unit 29: Ratio Unit 30: Reading and interpreting graphs	Student's Book 8: From page 148 to page 261
	Unit 1: Indices and standard form Unit 2: Pythagoras' theorem Unit 3: Data collection and sampling Unit 4: Area and circumference of a circle Unit 5: Order of operations with algebra Unit 6: Large and small units Unit 7: Record, organize and represent data Unit 8: Surface area and volume of prisms	Student's Book 9: From page 1 to page 55
2 nd Semester	Unit 9: Rational and irrational number Unit 10: Mutually exclusive events Unit 11: Rounding and estimating numbers Unit 12: Further data interpretation Unit 13: Further transformations Unit 14: Further fractions and decimals Unit 15: Manipulating algebraic expressions Unit 16: Combined events Unit 17: Further constructions, polygons, and angles Unit 18: Further algebraic expressions and formulae Unit 19: Probability – expected and relative frequency Unit 20: Further algebraic equations and inequalities Unit 21: Linear and quadratic sequences Unit 22: Compound percentages Unit 23: Scale and area factors of enlargement Unit 24: Function and their representation Unit 25: Coordinates and straight-line segments Unit 26: Estimating surds Unit 27: Linear functions and solving Simultaneous linear equations Unit 28: Bearings and scale drawings Unit 29: Direct and inverse proportion Unit 30: Compound measures and graphs	Student's Book 9: From page 61 to page 240

6. Oxford International Math (For Cambridge Secondary 1) – Oxford University Press:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	1. Number and calculation 1 2. Expressions 3. Shapes and constructions 4. Number and calculation 2 5. Length, mass, and capacity 6. Representing information 7. Fractions 8. Equations and formulae 9. Geometry 10. Fractions and decimals 11. Time and rates of change 12. Presenting data and interpreting results 13. Fractions, decimals, and percentages 14. Sequences, functions, and graphs	Student Book 1: From page 7 to page 247 (And related questions from “Review C”)
	15. Symmetry and transformations 16. Ratio and proportion 17. Area, perimeter, and volume 18. Probability	Student Book 1: From page 248 to page 305 (Sec.19 is not included)
2 nd Semester	1. Number and calculation 1 2. Expressions and functions 3. Shapes and mathematical drawings 4. Length, mass, and capacity 5. Number and calculation 2 6. Planning, collecting, and processing data 7. Fractions 8. Expressions, equations, and formulae 9. Geometry 10. Fractions and decimals	Student Book 2: From page 7 to page 157 (And related questions from “Review B”)
Grade 8		
1 st Semester	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)
	1. Fractions and indices 2. Expressions and formulae 3. Shapes and mathematical drawings 4. Number 5. 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)

7. Cambridge Lower Secondary Mathematics – Collins:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Chapter 1: Factors Chapter 2: 2D and 3D Shapes Chapter 3: Collecting Data Chapter 4: Negative numbers and indices Chapter 5: Expressions Chapter 6: Symmetry Chapter 7: Rounding and Decimals Chapter 8: Presenting and interpreting data 1 Chapter 9: Fractions Chapter 10: Manipulating expressions Chapter 11: Angles Chapter 12: Measures of average and spread Chapter 13: Calculations Chapter 14: Functions and formulae Chapter 15: Area and volume Chapter 16: Fractions, decimals, and percentages Chapter 17: Probability 1 Chapter 18: Transformations Chapter 19: Percentages Chapter 20: Presenting and interpreting data 2	Student's Book 7: From page 2 to page 229
2 nd Semester	Chapter 21: Equations and inequalities Chapter 22: Ratio and proportion Chapter 23: Probability Chapter 24: Sequences Chapter 25: Accurate drawing Chapter 26: Thinking statistically Chapter 27: Relationships and graphs	Student's Book 7: From page 223 to page 318
	Chapter 1: Negative numbers, indices, and roots Chapter 2: 2D and 3D Shapes Chapter 3: Collecting Data Chapter 4: Factors and rational numbers Chapter 5: Expressions Chapter 6: Angles Chapter 7: Place value, rounding and decimals Chapter 8: Presenting and interpreting data 1 Chapter 9: Functions and formulae Chapter 10: Fractions Chapter 11: Length, area, and volume Chapter 12: Probability 1 Chapter 13: Calculations	Student's Book 8: From page 2 to page 165

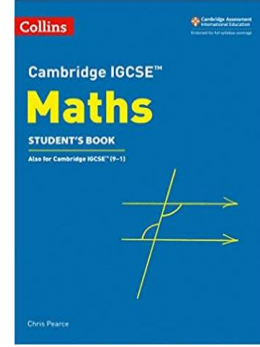
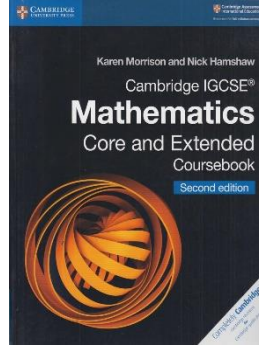
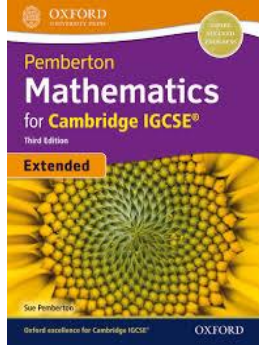
7. Cambridge Lower Secondary Mathematics – Collins:

Grade 8

Semester	Chapters	Main Resource
1 st Semester	Chapter 14: Equations and inequalities Chapter 15: Midpoints Chapter 16: Fractions, decimals, and percentages Chapter 17: Presenting and interpreting data 2 Chapter 18: Transformations Chapter 19: Percentages Chapter 20: Sequences Chapter 21: Probability 2 Chapter 22: Ratio and proportion Chapter 23: Relationships and graphs Chapter 24: Thinking statistically Chapter 25: Accurate drawing	Student's Book 8: From page 164 to page 331
	Chapter 1: Indices, roots, and rational numbers Chapter 2: Angles Chapter 3: Collecting and organizing Data Chapter 4: Standard form Chapter 5: Expressions Chapter 6: Transformations Chapter 7: Presenting and interpreting data 1	Student's Book 9: From page 2 to page 85
2 nd Semester	Chapter 8: Rounding and decimals Chapter 9: Functions and formulae Chapter 10: Accurate drawing Chapter 11: Fractions Chapter 12: Probability 1 Chapter 13: Equations and inequalities Chapter 14: Calculations Chapter 15: Pythagoras's theorem Chapter 16: Measures of averages and spread Chapter 17: Percentages Chapter 18: Sequences Chapter 19: Area and measures Chapter 20: Presenting and interpreting data 1 Chapter 21: Ratio and proportion Chapter 22: Relationships and graphs Chapter 23: Probability 2 Chapter 24: 3D Shapes Chapter 25: Simultaneous equations Chapter 26: Thinking statistically	Student's Book 9: From page 101 to page 333

الفصل الرابع: المرحلة الدراسية (٩-١٠)

Section (4): Grades (9-10)



الفهرس

Title	Page	الموضوع
List of Approved Essential Resources	54	قائمة المصادر التعليمية الأساسية المعتمدة
Components of Resources with their ISBNs	55	مكونات السلاسل التعليمية الأساسية المعتمدة مع أرقام الISBNs
Teaching Aids	56	الوسائل التعليمية
Learning Outcomes Distribution	57	توزيع المخرجات التعليمية على الفصلين الدراسيين

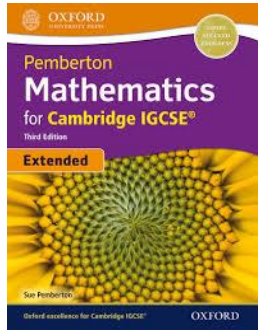
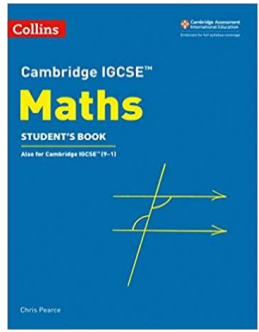
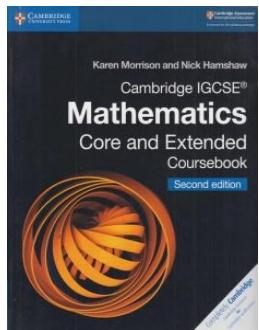
قائمة المصادر التعليمية الأساسية المعتمدة لمادة الرياضيات – الصفوف (٩-١٠)

List of Approved Essential Resources – Math – Grades (9- 10)

	Titles	Publisher	Components
1	Pemberton Mathematics for Cambridge IGCSE - Extended (Third Edition)	Oxford University Press	Coursebook
			Teacher Resource Pack
3	Cambridge IGCSE Maths	Collins	Student Book
			Teacher Guide
4	Cambridge IGCSE Mathematics Core and Extended	Cambridge University Press	Coursebook
			Practice Book
			Teacher's Resource

مكونات السلاسل التعليمية الأساسية المعتمدة مع أرقام (ISBNs) لمادة الرياضيات – الصفوف (٩-١٠)

Components of Math Resources with their ISBNs- Grades (9- 10)

	Components	Publisher	ISBN	Book Cover
1	Pemberton Mathematics for Cambridge IGCSE - Extended (Third Edition)	Oxford University Press	9780198428402	
	Pemberton Mathematics for Cambridge IGCSE Teacher Resource Pack – Extended (Third Edition)		9780198428473	
2	Cambridge IGCSE Maths - Student book	Collins	9780008257798	
	Cambridge IGCSE Maths - Teacher Guide		9780008257804	
3	Cambridge IGCSE Mathematics Core and Extended - Coursebook (Second Edition)	Cambridge University Press	9781108437189	
	Cambridge IGCSE Mathematics Extended - Practice Book (Second Edition)		9781108437219	
	Cambridge IGCSE Mathematics - Teacher's Resource (Second Edition)		9781108437271 online	

Teaching Aids - Math - Grades (9- 10)

Schools must provide the following teaching aids:

على المدارس توفير الوسائل التعليمية الآتية:

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.

١. أدوات هندسية بحجم 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. جهاز عرض.
٥. شبكة إنترنت متاحة.

Learning Outcomes Distribution - Math - Grades (9- 10)

Grade (9)	
First Semester	
1) Number	<p>Indices</p> <ul style="list-style-type: none"> Understand the meaning and rules of indices Use the standard form $A \times 10^n$ where n is a positive or negative integer, and $1 \leq A < 10$ <p>Real Numbers</p> <ul style="list-style-type: none"> Identify and use real numbers (Which includes rational & irrational numbers) Convert recurring decimals to fractions (And opposite) <p>Proportion</p> <ul style="list-style-type: none"> Increase and decrease a quantity by a given ratio Use common measures of rate Calculate average speed <p>Percentages</p> <ul style="list-style-type: none"> 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	<p>Algebraic Manipulation</p> <ul style="list-style-type: none"> 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: $ax + bx + kay + kby$ $a^2x^2 - b^2y^2$ $a^2 + 2ab + b^2$ $ax^2 + bx + c$ <ul style="list-style-type: none"> Manipulate algebraic fractions Factorize and simplify rational expressions
3) Co-ordinate Geometry	<p>Straight Line Graphs</p> <ul style="list-style-type: none"> 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
4) Mensuration	<p>Arc Length and Sector Area of the Circle</p> <ul style="list-style-type: none"> Solve problems involving the arc length and sector area as fractions of the circumference and area of a circle <p>Surface Area and Volume of 3D Shapes</p> <ul style="list-style-type: none"> 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 <p>Areas and Volumes of Compound Shapes</p> <ul style="list-style-type: none"> Carry out calculations involving the areas and volumes of compound shapes

1) **Number****Sets**

- Use language, notation and Venn 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
- 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 n th 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:
 - 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

4) Vectors

Vectors

- Describe a translation by using a vector represented by e.g. $\begin{pmatrix} x \\ y \end{pmatrix}$, \vec{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

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 ax^n , 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. $f(x) = 3x - 5$, $f: x \rightarrow 3x - 5$, 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

Transformations

- 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