



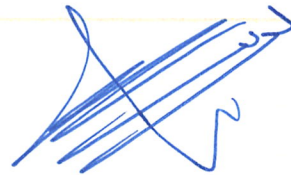
سلطنة عُمان
وزارة التربية والتعليم
المديرية العامة للمدارس الخاصة
دائرة برامج ومناهج المدارس الخاصة
قسم المناهج التعليمية

النشرة التوجيهية لمادة الرياضيات
المخرجات والمصادر التعليمية المعتمدة للمدارس الخاصة
برنامج ثنائي اللغة - للصفوف (11-12)

Mathematics Newsletter
Approved Educational Resources and Learning Outcomes
for Private Schools
Bilingual Program Grades (11-12)



2025/2026



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الفصل الأول: الموجّهات العامة

Section (1): General Guidelines

على جميع المدارس الخاصة المطبقة للبرنامج ثنائي اللغة الالتزام بجميع التعليمات الواردة في الجدول أدناه:

<ul style="list-style-type: none">▪ اختيار أحد المصادر التعليمية الأساسية المعتمدة في هذه النشرة التوجيهية.▪ توفير جميع المكونات الأساسية للمصادر التعليمية المختارة، بالنسبة لكل طالب ولكل معلم، والموضحة في الفصول القادمة من هذه النشرة التوجيهية.▪ توفير نسخ كافية من الكتب وغيرها من المصادر التعليمية، لطلابها ومعلميها قبل وقت كافٍ من بداية العام الدراسي.▪ توفير نسخ أصلية من المصادر التعليمية الأساسية التي تم اختيارها للتطبيق، ومراعاة حقوق الطبع والملكية الفكرية في جميع استخدامات المصادر المعتمدة في هذه النشرة.▪ ضرورة توفير دليل المعلم الإلكتروني للمعلم، في السلسلة المعتمدة التي بها دليل معلم إلكتروني. <p>ملاحظة هامة:</p> <ul style="list-style-type: none">▪ توجد مكونات إضافية غير إلزامية لبعض السلسلة 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 والطلبة، بشرط أن يتم الالتزام بالمعايير المعتمدة لاختيار المصادر الإثرائية، والتي تستخدم بغرض دعم تطبيق المنهج بشكل أفضل.	اختيار وتوفير السلسلة التعليمية والكتب الدراسية الأساسية
<ul style="list-style-type: none">▪ المرحلة (1-8): تلتزم المدرسة بتحقيق الأهداف الواردة في السلسلة التعليمية المعتمدة، وذلك خلال الفصلين الدراسيين الأول والثاني في كل صف دراسي، بناءً على الوحدات المحددة في بند "توزيع المحتوى على الفصلين الدراسيين". الرجاء مراجعة الفصلين الثاني والثالث من هذه النشرة التوجيهية.▪ المرحلة (9-10): تلتزم المدرسة بتحقيق الأهداف الواردة في الفصل الرابع من هذه النشرة التوجيهية.	الأهداف

<p>ملاحظة هامة:</p> <ul style="list-style-type: none"> ▪ عدد تنفيذ الدروس المتعلقة بالنقود في الصفوف (1-6) بضرورة استبدال العملة الأجنبية بالعملة العمانية <u>باستخدام نماذج ورقية مغلقة حرارياً للفئات النقدية العمانية المختلفة</u> . 	
<ul style="list-style-type: none"> ▪ مرحلة (1-6): الالتزام بتوفير الوسائل التعليمية المذكورة في دليل المعلم للسلسلة الأساسية التي قامت المدرسة باختيارها . ▪ مرحلة (7-10): 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 . 	الوسائل التعليمية
<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 . 	التدريب

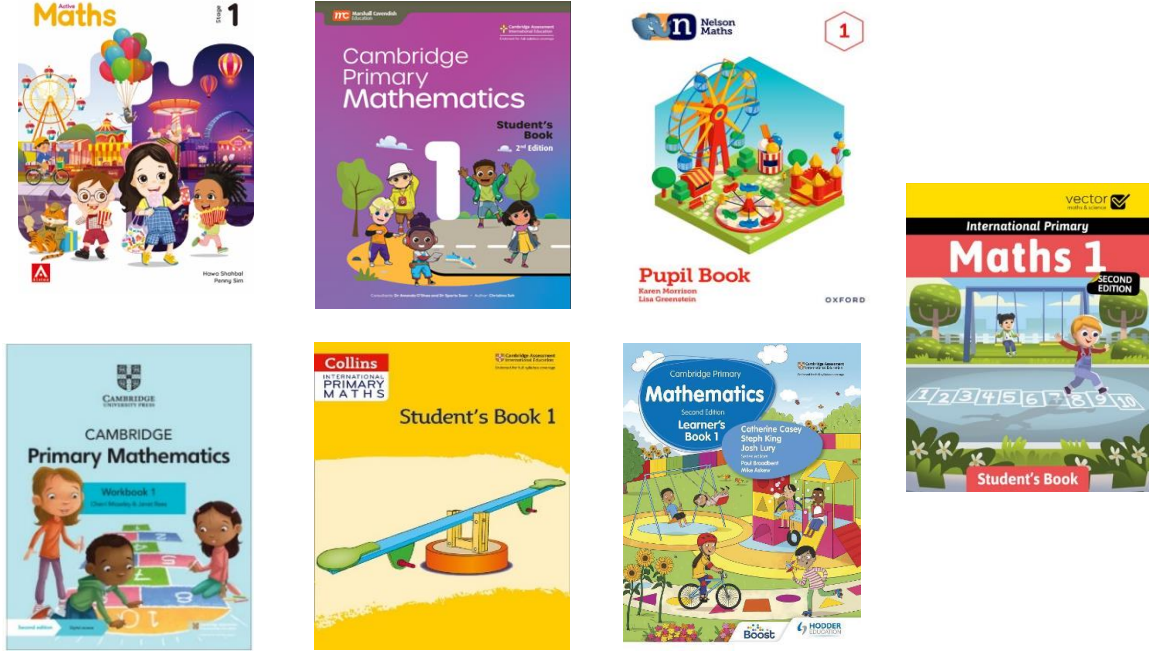
All schools implementing the bilingual program must follow all the instructions below:

Series and books Selection and Provision	<ul style="list-style-type: none">▪ Selecting and using essential resources from the approved titles in this newsletter.▪ Providing all the essential components of resources for students and teachers.▪ Ordering enough of the materials for teachers and students before the beginning of the academic year. Schools are responsible for any late delivery of their orders.▪ Providing original copies of the selected resources and taking in consideration the copy rights and intellectual properties while using any approved resource in any aspect.▪ Provide the teacher with (electronic / online) teachers guide Wherever mentioned in the newsletter. <p style="text-align: center;"><u>Important Note:</u></p> <ul style="list-style-type: none">▪ 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 style="text-align: center;">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 (1-6)

Section (2): Grades (1-6)



الفهرس

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List of Approved Series and their Compulsory Components	6	قائمة السلاسل التعليمية الأساسية المعتمدة ومكوناتها الإلزامية
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قائمة السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات ومكوناتها الإلزامية – الصفوف (1-6)

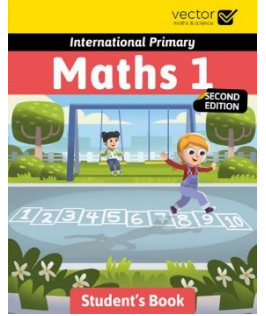
List of Approved Series and their Compulsory Components – Grades (1- 6)

	Name of series	Edition	Publisher	Components	Comments
1	International Primary Math's	Second edition	Vector	Student's Book Workbook Teacher's Book	New approval
2	Nelson Math's	Third Edition	Oxford	Pupil Book Workbook Teacher	
3	Active Math's	First Edition	Alston Education	Textbook Workbook Teacher's Guide	Teacher Guide available as digital resource
4	Cambridge Primary MATHS	Second Edition	Marshall Cavendish Education	Pupil's Book Activity Book Teacher's Guide	
5	Collins International Primary Math's	Second Edition	Collins	Student's Book Workbook Teacher's Guide	
6	Cambridge Primary Mathematics	Second Edition	Cambridge University Press	Learner's Book Teacher's Resource with digital access Games Book	
7	Hodder Cambridge Primary Mathematics	Second edition	Hodder Education	Learner's Book Workbook Teacher's Pack	


أرقام الـ (ISBNs) لمكونات السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات - الصفوف (1-6)

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

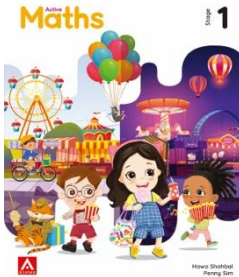


1- International Primary Maths (Second Edition) – Vector:			
Grade	Components	ISBN	Book Cover
1	Student's Book 1	9786185663643	
	Workbook 1	9786185663650	
	Teacher's Book 1	9786185663476	
2	Student's Book 2	9786185663667	
	Workbook 2	9786185663674	
	Teacher's Book 2	9786185663483	
3	Student's Book 3	9786185663681	
	Workbook 3	9786185663698	
	Teacher's Book 3	9786185663490	
4	Student's Book 4	9786185663704	
	Workbook 4	9786185663711	
	Teacher's Book 4	9786185663728	
5	Student's Book 5	9786185663735	
	Workbook 5	9786185663742	
	Teacher's Book 5	9786185663759	
6	Student's Book 6	9786185663766	
	Workbook 6	9786185663773	
	Teacher's Book 6	9786185663780	

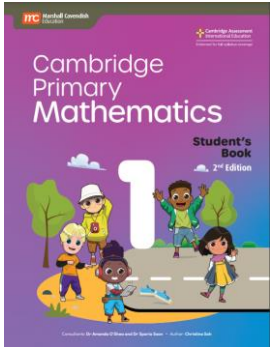
2- Nelson Maths (Third Edition) - Oxford University press

Grade	Components	ISBN	Book Cover
1	Pupil Book 1	9781382009980	
	Workbook 1	9781382010245	
	Teacher's Book 1	9781382010108	
2	Pupil Book 2	978132010009	
	Workbook 2	9781382010269	
	Teacher's Book 2	9781382010122	
3	Pupil Book 3	9781382010023	
	Workbook 3	9781382010283	
	Teacher's Book 3	9781382010146	
4	Pupil Book 4	9781382010047	
	Workbook 4	9781382010306	
	Teacher's Book 4	9781382010160	
5	Pupil Book 5	9781382010061	
	Workbook 5	9781382010320	
	Teacher's Book 5	9781382010184	
6	Pupil Book 6	9781382010085	
	Workbook 6	9781382010344	
	Teacher's Book 6	9781382010207	

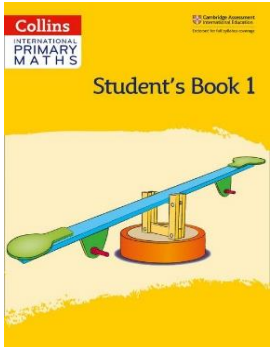
3- Active Maths (First Edition) - Alston Education:

Grade	Components	ISBN	Book Cover
1	Textbook	9789813180727	
	Workbook	9789813180789	
	Teacher's Guide	9789813180840	
2	Textbook	9789813180734	
	Workbook	9789813180796	
	Teacher's Guide	9789813180857	
3	Textbook	9789813180741	
	Workbook	9789813180802	
	Teacher's Guide	9789813180864	
4	Textbook	9789813180758	
	Workbook	9789813180819	
	Teacher's Guide	9789813180871	
5	Textbook	9789813180765	
	Workbook	9789813180826	
	Teacher's Guide	9789813180888	
6	Textbook	9789813180772	
	Workbook	9789813180833	
	Teacher's Guide	9789813180970	

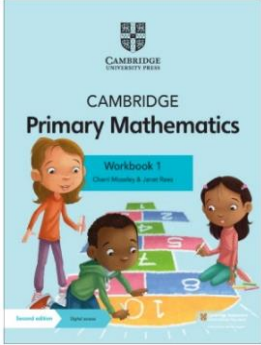
4- Cambridge Primary Mathematics (Second Edition) - Marshall Cavendish Education:

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	

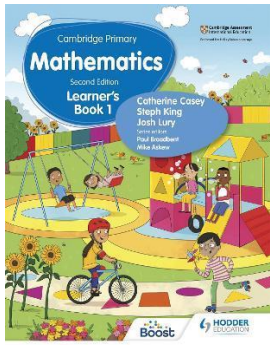
5- International Primary Maths (Second Edition) - Collins:

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	

6- 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	

7- Cambridge Primary Mathematics (Second Edition) – Hodder Education:

Grade	Components	ISBN	Book Cover
1	Learner's Book1	9781398300903	
	Workbook1	9781398301153	
	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	

توزيع المحتوى على الفصلين الدراسيين - الصفوف (1-6)

Content Distribution – Grades (1- 6)





1- International Primary Maths (Second Edition) – Vector:

Grade	Semester 1	Semester 2
One	Unit 1 1.1 Find the Position 1.2 Directions 1.3 Describe the position 1.4 Numbers 1 to 10 1.5 Count to ten 1.6 Meet zero 1.7 Order numbers up to 10 1.8 Difference	Unit 6 6.1 Numbers to 100 6.2 More and less by ten 6.3 Count in ones and tens 6.4 Count in twos 6.5 Estimate with 10 6.6 Measure length 6.7 Measure weight 6.8 Measure capacity 6.9 Measure temperature
	Unit 2 2.1 Lines 2.2 Name the 2D shapes 2.3 More 2D shapes 2.4 Symmetrical or not 2.5 Even or odd 2.6 Let's put them together! 2.7 Now let's take away!	Unit 7 7.1 Meet the number line 7.2 Walk on to add 7.3 Equal pairs 7.4 Walk back to subtract 7.5 Number line and difference 7.6 Tell the time 7.7 Times in a day 7.8 Second, minute and hour
	Unit 3 3.1 Number pairs for 10 3.2 Number pairs for 1 to 9 3.3 Play with number pairs 3.4 From short to tall and thin to wide 3.5 From light to heavy 3.6 From empty to full 3.7 Name the 3D shapes 3.8 More 3D shapes	Unit 8 8.1 Tens and ones around us 8.2 Additions to 100 8.3 Find the missing number 8.4 More coins 8.5 Same total of money 8.6 Combinations
	Unit 4 4.1 Numbers to 20 4.2 Teen numbers 4.3 Doubles 4.4 Near doubles 4.5 Order numbers up to 20 4.6 Sorting 4.7 Meet the Venn diagram 4.8 Meet the Carroll diagram 4.9 More Carroll diagrams	Unit 9 9.1 List and tables 9.2 Meet the pictogram 9.3 Meet the block graph 9.4 Halves 9.5 Sharing between 2 9.6 Half of a number
	Unit 5 5.1 Original numbers 5.2 More ordinal numbers 5.3 My week! 5.4 The months 5.5 Make ten to add 5.6 Let's check! 5.7 Coins	





Two	<p>Unit 1</p> <p>1.1 Numbers to 100</p> <p>1.2 Ordinal numbers</p> <p>1.3 Count in ones and tens</p> <p>1.4 Move on the 100 square</p> <p>1.5 Count in twos and fives</p> <p>1.6 Count in groups of 2, 5, or 10</p> <p>1.7 2D shapes</p> <p>1.8 Regular and irregular 2D shapes</p> <p>1.9 3D shapes</p>	<p>Unit 6</p> <p>6.1 Arrays and multiplication</p> <p>6.2 Multiplication by 2 and doubles</p> <p>6.3 Multiplication by 5 and 10</p> <p>6.4 Sort numbers</p> <p>6.5 Make groups to divide</p> <p>6.6 Division with remainders</p> <p>6.7 Seconds, minutes, hours and more</p> <p>6.8 Read and show the time</p> <p>6.9 Calendar</p>
	<p>Unit 2</p> <p>2.1 Number lines</p> <p>2.2 Round to the nearest ten</p> <p>2.3 Measure length</p> <p>2.4 Measure weight</p> <p>2.5 Measure capacity</p> <p>2.6 Number pairs for 10 and 100</p> <p>2.7 Number pairs for 20</p> <p>2.8 Number pairs for teen numbers</p> <p>2.9 Eyes on patterns</p>	<p>Unit 7</p> <p>7.1 Add more two-digit numbers</p> <p>7.2 Doubles and halves</p> <p>7.3 Add odd and even numbers</p> <p>7.4 Find the total of coins</p> <p>7.5 Find the total of notes</p> <p>7.6 Find the change</p> <p>7.7 Find the missing number</p> <p>7.8 Compare</p> <p>7.9 Addition and subtraction problems</p>
	<p>Unit 3</p> <p>3.1 Draw and guess the 2D shape</p> <p>3.2 Symmetry in pictures and patterns</p> <p>3.3 Addition with number pairs</p> <p>3.4 Easy ways to add and subtract</p> <p>3.5 Check your answer</p> <p>3.6 Equal or not</p> <p>3.7 Value of money</p> <p>3.8 Days and months</p> <p>3.9 Meet the arrays</p>	<p>Unit 8</p> <p>8.1 Count in threes</p> <p>8.2 Count in fours</p> <p>8.3 Number sentences and arrays</p> <p>8.4 Multiplication and division problems</p> <p>8.5 Divide and share</p> <p>8.6 Let's compare lengths!</p> <p>8.7 Let's compare weights!</p> <p>8.8 Let's compare capacities!</p> <p>8.9 Let's look at more problems!</p>
	<p>Unit 4</p> <p>4.1 Let's estimate</p> <p>4.2 Tens, ones and their digits</p> <p>4.3 Compare and put numbers in order</p> <p>4.4 Add or subtract tens</p> <p>4.5 Lists and tally charts</p> <p>4.6 Block graphs</p> <p>4.7 Pictograms</p> <p>4.8 Find the patterns</p> <p>4.9 Let's spin the spinner!</p>	<p>Unit 9</p> <p>9.1 Play with 2D shapes</p> <p>9.2 Symmetrical pictures</p> <p>9.3 Halves</p> <p>9.4 Quarters</p> <p>9.5 Half of a number</p> <p>9.6 Quarter of a number</p> <p>9.7 It's time to turn</p> <p>9.8 Tell me where to go</p>
	<p>Unit 5</p> <p>5.1 Add two-digit numbers</p> <p>5.2 Add or subtract near tens</p> <p>5.3 Subtraction and difference</p> <p>5.4 Rulers up!</p> <p>5.5 Scales up!</p> <p>5.6 Vessels up!</p> <p>5.7 Venn diagrams</p> <p>5.8 Carroll diagrams</p>	



	5.9 The circle	
Three	Unit 1 1.1 Numbers to 1000 1.2 1, 10, 100 more or less 1.3 Add or subtract multiples of 10 or 100 1.4 Number line marked in tens 1.5 Number line marked in hundreds 1.6 Some new 2D shapes 1.7 Symmetry	Unit 6 6.1 Doubles and halves 6.2 Multiplication and division by 4 6.3 Multiplication and division by 6 6.4 Multiplication and division by 8 6.5 Multiplication and division by 9 6.6 Multiplication and division with or without remainders 6.7 Carroll diagrams 6.8 Venn diagrams 6.9 Timetables
	Unit 2 2.1 Puzzles 2.2 Equivalent or not 2.3 Fact families for 100 and 1000 2.4 Money totals 2.5 Units of lengths 2.6 Units of mass 2.7 Units of capacity and volume 2.8 Unit of temperature 2.9 Some new 3D shapes 2.10 Make 3D shapes from nets	Unit 7 7.1 Fractions and shapes 7.2 Equivalent fractions 7.3 Mixed numbers 7.4 Put fractions and mixed numbers in order 7.5 Find the half 7.6 Fractions and division 7.7 Add and subtract fractions with the same denominator 7.8 Find and draw right angles 7.9 Compare angles 7.10 Find the chance!
	Unit 3 3.1 Doubling and halving 3.2 Multiplication and division 3.3 Multiplication and division by 2 and 3 3.4 Multiplication and division by 5 and 10 3.5 Patterns and sorting with multiples 3.6 Seconds, minutes, hours and days 3.7 Tell the time 3.8 Time intervals 3.9 Compass points	Unit 8 8.1 Round and order 8.2 Two-digit number with a total of 100 8.3 Add or subtract two two-digit numbers 8.4 More addition and subtraction 8.5 More time and puzzles 8.6 Length problems 8.7 Mass problems 8.8 Capacity and volume problems
	Unit 4 4.1 Compare numbers 4.2 Three-digit numbers in order 4.3 Round to the nearest ten or hundred 4.4 Estimate range 4.5 Multiply a two-digit number by 10 4.6 Estimate and measure length 4.7 Estimate and measure mass 4.8 Estimate and measure capacity and volume	Unit 9 9.1 More doubles and halves 9.2 Multiply teen numbers 9.3 Divide two-digit numbers 9.4 Division problems 9.5 Money problems 9.6 Grids 9.7 More grids 9.8 Symmetry on a grid 9.9 Meet the perimeter and area 9.10 Let's draw on a grid!
	Unit 5 5.1 Known methods to add 5.2 Known methods to subtract 5.3 Add and subtract with three-digit numbers	

	<p>5.4 Add three-digit and two-digit numbers</p> <p>5.5 Find the total cost</p> <p>5.6 Find the change</p> <p>5.7 Tally charts and frequency tables</p> <p>5.8 Pictograms</p> <p>5.9 Bar charts</p>	
Four	<p>UNIT 1</p> <p>1.1 Numbers to 10,000</p> <p>1.2 1, 10, 100, 1,000 more or less</p> <p>1.3 Number lines</p> <p>1.4 Addition with small numbers</p> <p>1.5 Add or subtract multiples of 10, 100, 1,000</p> <p>1.6 Venn diagrams</p> <p>1.7 Carroll diagrams</p> <p>1.8 Dot diagrams</p> <p>1.9 Tell the time</p> <p>1.10 Time intervals and timelines</p>	<p>UNIT 6</p> <p>6.1 Multiplication and checking</p> <p>6.2 More doubles and halves</p> <p>6.3 Square numbers</p> <p>6.4 Divide two-digit numbers</p> <p>6.5 Subtract to divide</p> <p>6.6 Division and multiplication problems</p> <p>6.7 Area and perimeter</p> <p>6.8 3D shapes</p> <p>6.9 Nets of 3D shapes</p>
	<p>UNIT 2</p> <p>2.1 Add two-digit numbers</p> <p>2.2 Subtract two-digit numbers</p> <p>2.3 Add three-digit numbers</p> <p>2.4 Subtract three-digit numbers</p> <p>2.5 Count to find area and perimeter</p> <p>2.6 Length</p> <p>2.7 Mass</p> <p>2.8 Capacity and volume</p> <p>2.9 Pictograms</p> <p>2.10 Bar charts</p>	<p>UNIT 7</p> <p>7.1 Equivalent fractions</p> <p>7.2 Compare and order fractions</p> <p>7.3 Sums and difference of fractions with the same denominator</p> <p>7.4 Mixed numbers</p> <p>7.5 Fractions as decimal numbers</p> <p>7.6 Fractions, decimals and mixed numbers</p> <p>7.7 More Venn diagrams</p> <p>7.8 More Carroll diagrams</p> <p>7.9 More area and perimeter</p>
	<p>UNIT 3</p> <p>3.1 Multiply and divide by 10 and 100</p> <p>3.2 Multiplication and division</p> <p>3.3 Multiplication and division by 7</p> <p>3.4 Factors</p> <p>3.5 Multiples and patterns</p> <p>3.6 Divisibility rules</p> <p>3.7 Doubles and halves</p> <p>3.8 Multiply two-digit numbers</p> <p>3.9 Multiplication with grids</p> <p>3.10 Compare angles</p>	<p>UNIT 8</p> <p>8.1 Fractions and division</p> <p>8.2 Fractions, shapes and numbers</p> <p>8.3 Percentages</p> <p>8.4 Compare the size</p> <p>8.5 Compare amounts</p> <p>8.6 More length</p> <p>8.7 More mass</p> <p>8.8 More capacity and volume</p> <p>8.9 Measurement problems</p>
	<p>UNIT 4</p> <p>4.1 Numbers to 100,000</p> <p>4.2 Mental addition</p> <p>4.3 Mental subtraction</p> <p>4.4 Add pairs of three-digit numbers</p> <p>4.5 Subtract pairs of three-digit numbers</p> <p>4.6 Even and odd numbers</p> <p>4.7 Negative numbers</p> <p>4.8 Position and direction on grids</p>	<p>UNIT 9</p> <p>9.1 Number sequences</p> <p>9.2 Negative numbers and sequences</p> <p>9.3 More pictograms</p> <p>9.4 More bar charts</p> <p>9.5 Measure and calculate time</p> <p>9.6 Time problems</p> <p>9.7 More measurement problems</p> <p>9.8 Chance and probability</p>

	<p>UNIT 5</p> <p>5.1 Tenth</p> <p>5.2 Hundredths</p> <p>5.3 Money in decimals</p> <p>5.4 Time on 12-hour and 24-hour clocks</p> <p>5.5 Timetables</p> <p>5.6 Calendars</p> <p>5.7 Polygons</p> <p>5.8 Quadrilaterals</p> <p>5.9 Name and estimate angles</p> <p>5.10 Symmetry</p>	
Five	<p>UNIT 1</p> <p>1.1 Numbers to one million</p> <p>1.2 Count on and back in multiples of 10, 100 or 1,000</p> <p>1.3 Round and order</p> <p>1.4 Multiple and divide by 10 or 100</p> <p>1.5 Sequences and patterns of multiples</p> <p>1.6 Time intervals</p> <p>1.7 Parallel and perpendicular lines</p> <p>1.8 Position with coordinates</p>	<p>UNIT 6</p> <p>6.1 Positive and negative numbers on the number line</p> <p>6.2 more sequences</p> <p>6.3 Make general statements</p> <p>6.4 Measure and calculate perimeter</p> <p>6.5 Measure and calculate area</p> <p>6.6 Calendars</p> <p>6.7 Time puzzles</p> <p>6.8 Find the mode and the median</p>
	<p>UNIT 2</p> <p>2.1 Add mentally</p> <p>2.2 Subtract mentally</p> <p>2.3 Written methods to add</p> <p>2.4 Written methods to subtract</p> <p>2.5 Types of triangles</p> <p>2.6 Symmetry in Shapes</p> <p>2.7 Reflection</p> <p>2.8 Translation</p> <p>2.9 3D shapes and nets</p>	<p>UNIT 7</p> <p>7.1 More decimals</p> <p>7.2 Equivalent fractions, decimals and percentages</p> <p>7.3 Improper fractions</p> <p>7.4 Divide to find fractions</p> <p>7.5 Find percentages</p> <p>7.6 Sums and differences of fractions</p> <p>7.7 Unit fractions and whole numbers</p> <p>7.8 Sort, estimate, and measure angles</p> <p>7.9 Angles that add up to 180°</p> <p>7.10 More triangles</p>
	<p>UNIT 3</p> <p>3.1 Multiplication facts, square and triangular numbers</p> <p>3.2 Prime and composite numbers</p> <p>3.3 Multiply mentally</p> <p>3.4 Written methods multiple</p> <p>3.5 Division of three-digit numbers</p> <p>3.6 Divisibility rules</p> <p>3.7 Calculate perimeter</p> <p>3.8 Calculate area</p>	<p>UNIT 8</p> <p>8.1 Addition and subtraction</p> <p>8.2 Add more than two three-digit numbers</p> <p>8.3 Double and halve decimals</p> <p>8.4 Multiple decimals</p> <p>8.5 Number puzzles</p> <p>8.6 The BODMAS rule and the laws of arithmetic</p> <p>8.7 Nets of pyramids and prisms</p> <p>8.8 Time</p> <p>8.9 Time around the world</p>
	<p>UNIT 4</p> <p>4.1 Decimals</p> <p>4.2 Round and order decimals</p>	<p>UNIT 9</p> <p>9.1 Ratio and proportion</p> <p>9.2 Problems with ratio and proportion</p>

	<p>4.3 Calculations with decimals</p> <p>4.4 Add decimals</p> <p>4.5 Subtract decimals</p> <p>4.6 Collect data for a survey</p> <p>4.7 Bar line chart</p> <p>4.8 Compare line graphs and dot diagrams</p> <p>4.9 Waffle diagrams and dot diagrams</p> <p>4.10 Bar charts and frequency diagrams</p>	<p>9.3 Meet the calculator</p> <p>9.4 Problems and puzzles with area and perimeter</p> <p>9.5 Measurement problems</p> <p>9.6 Rational and reflective symmetry</p> <p>9.7 Reflection and coordinates</p> <p>9.8 Translation and coordinates</p>
	<p>UNIT 5</p> <p>5.1 Double and halve</p> <p>5.2 Multiplication methods</p> <p>5.3 More multiplication methods</p> <p>5.4 Multiply pairs of two-digit numbers</p> <p>5.5 Division with grouping</p> <p>5.6 Length measurements</p> <p>5.7 Mass measurements</p> <p>5.8 Capacity measurements</p>	
Six	<p>Unit 1</p> <p>1.1 Whole numbers up to one million</p> <p>1.2 Round and estimate whole numbers</p> <p>1.3 Sums of whole numbers</p> <p>1.4 Differences between whole numbers</p> <p>1.5 Letters and numbers</p> <p>1.6 From polygons to quadrilaterals</p> <p>1.7 Plot coordinates in all four quadrants</p> <p>1.8 Reflect 2D shapes</p> <p>1.9 Translate 2D shapes</p>	<p>UNIT 6</p> <p>6.1 More about decimals</p> <p>6.2 Multiplication and division by 10 100 and ,1000</p> <p>6.3 More calculations with decimals</p> <p>6.4 Multiply and divide by a two-digit number</p> <p>6.5 Multiplication and division</p> <p>6.6 length measurements and problems</p> <p>6.7 Mass measurement defined problems</p> <p>6.8 Capacity measurement and problems</p> <p>6.9 Perimeter of composite and rectilinear shapes.</p> <p>6.10 Area of composite and rectilinear shapes</p>
	<p>Unit 2</p> <p>2.1 Multiples</p> <p>2.2 Common factors, highest Common factor and fractions</p> <p>2.3 Square and cube numbers</p> <p>2.4 Choose multiplication strategy</p> <p>2.5 Divide tow and three-digit numbers quickly</p> <p>2.6 Even and odd numbers</p> <p>2.7 Describe polyhedral</p> <p>2.8 Explore Nets</p> <p>2.9 Units of time</p> <p>2.10 Time intervals</p>	<p>UNIT 7</p> <p>7.1 Whole numbers and decimals</p> <p>7.2 Additional and subtraction</p> <p>7.3 Multiplication with decimals</p> <p>7.4 Division with decimals</p> <p>7.5 The order of operations yes</p> <p>7.6 More negative numbers</p> <p>7.7 Explore 2D shapes</p> <p>7.8 Explore 3D shapes</p> <p>7.9 Compound 3D shapes</p> <p>7.10 Make a calendar of the future</p>

	<p>UNIT 3</p> <p>3.1 Place value and factors for decimals</p> <p>3.2 Sums of decimals</p> <p>3.3 Difference between decimals</p> <p>3.4 Sequences</p> <p>3.5 More sequences</p> <p>3.6 Estimate and measure angles</p> <p>3.7 Some of angles and a triangle</p> <p>3.8 Rotate 2D shapes</p> <p>3.9 length measurement</p> <p>3.10 Perimeter and area</p>	<p>UNIT 8</p> <p>8.1 Improper fractions and mixed numbers</p> <p>8.2 Compare and order fractions and mixed numbers</p> <p>8.3 From fractions to decimals</p> <p>8.4 Division and fractions</p> <p>8.5 Sums and differences of fractions</p> <p>8.6 Proper fractions and whole numbers</p> <p>8.7 Find fractions of a quantity</p> <p>8.8 Draw angles and triangles</p> <p>8.9 Explore angles</p> <p>8.10 Imperial units of measurements</p>
	<p>UNIT 4</p> <p>4.1 Our number system</p> <p>4.2 More addition</p> <p>4.3 More subtraction</p> <p>4.4 Practice with positive and negative numbers</p> <p>4.5 Differences between positive and negative numbers</p> <p>4.6 Time measurements</p> <p>4.7 Bar charts and pie charts</p> <p>4.8 line graphs and conversation tables</p> <p>4.9 Scatter graphs</p> <p>4.10 Waffle diagrams and frequency diagrams</p>	<p>UNIT 9</p> <p>9.1 Percentages and fractions</p> <p>9.2 Find the percentages</p> <p>9.3 Ratio and proportion problems</p> <p>9.4 Probability</p> <p>9.5 Perimeters and areas of more ships</p> <p>9.6 Formulas for area and perimeter</p> <p>9.7 Circles</p> <p>9.8 Drawing a circle</p> <p>9.9 Make travel plans</p> <p>9.10 Mathematics in the past</p>
	<p>UNIT 5</p> <p>5.1 Common multiplies and factors</p> <p>5.2 Tests of divisibility</p> <p>5.3 More test Of divisibility</p> <p>5.4 Multiply and divide mentally</p> <p>5.5 Written methods for multiplication</p> <p>5.6 Written methods for division</p> <p>5.7 Find the probability of an event</p> <p>5.8 Find mode median and range</p> <p>5.9 Types of average</p> <p>5.10 Use statistics</p>	

2. Nelson Math's - Oxford University press (First Edition)

Grade	Semester 1	Semester 2
One	Unit 2: Measure and compare. Unit 3: Count to 10 and beyond Unit 4: 2D shapes Unit 5: Order and position Unit 6: Count to 20 Unit 7: Mass Unit 8: Add and take away Unit 9: Time	Unit 10: More adding and taking away Unit 11: Capacity and temperature Unit 12: 3D shapes Unit 15: Position and direction Unit 16: Money Unit 17: Sort shapes Unit 19: More about time Unit 20: data
Two	Unit 2: Working with numbers Unit 3: Place value Unit 4: 2D and 3D shapes Unit 5: Patterns and Sequence Unit 6: Add and subtract Unit 7: Length Unit 8: Mass Unit 9: Lists and tables Unit 10: Show data	Unit 11: Multiply Unit 12: Divide Unit 13: Fractions Unit 14: Time Unit 15: Possible outcomes Unit 16: Symmetry Unit 17: Capacity and temperature Unit 18: More about time Unit 19: Position and movement Unit 20: Money
Three	Unit 2: Number and place value Unit 3: Length Unit 4: Patterns and Sequences Unit 5: Lines and angles Unit 6: Polygons Unit 7: Addition and subtraction Unit 8: Money Unit 9: Mass Unit 10: Multiplication and division	Unit 11: Perimeter and area Unit 12: Data Unit 13: 3D shapes Unit 14: position, direction and movement Unit 15: Fractions Unit 16: Capacity and temperature Unit 17: Probability Unit 18: Time
Four	Unit 2: Number and place value Unit 3: 2D shapes Unit 4: Time Unit 5: Decimals Unit 6: measures and money Unit 7: Count and calculate Unit 8: Symmetry Unit 9: Data and charts Unit 10: Addition and subtraction	Unit 11: Angles and triangles Unit 12: Multiplication and division facts Unit 13: Negative numbers Unit 14: Perimeter and area Unit 15: Fractions Unit 16: Position and movement Unit 17: Multiplication Unit 18: Work with a line graph
Five	Unit 2: Number and place value Unit 3: properties of shapes	Unit 11: fractions Unit 12: position, direction, and movement

	Unit 4: Addition and subtraction Unit 5: Decimals and percentages Unit 6: Time Unit 7: Multiplication and division 1 Unit 8: Measures and money Unit 9: perimeter and area Unit 10: Statistics	Unit 13: Multiplication and division 2 Unit 14: Work with negative numbers Unit 15: Calculate with decimals Unit 16: Volume and capacity Unit 17: Ratio and proportion Unit 18: Probability
Six	Unit 2: Numbers and Place Value Unit 3: Multiples, factors, and special numbers. Unit 4: Shapes, lines and angles Unit 5: The four operations. Unit 6: Fractions Unit 7: Position, direction and movement Unit 8: Decimals	Unit 9: Percentages Unit 10: Measures and money Unit 11: Data Unit 12: Ratio and proportion Unit 13: perimeter, area, and volume Unit 15: Probability

3. Active Math's Alston Education (First Edition)		
Grade	Semester 1	Semester 2
One	Chapter1: Number to 20 Chapter2: More about numbers to 20 Chapter3: Time Chapter4: Shapes and Solids Chapter5: Addition	Chapter6: Double and halves Chapter7: Subtraction Chapter8: Position and Movement Chapter9: Measured Chapter10: Money Chapter11: Handling Data
Two	Chapter1: Numbers to 100 Chapter2: More about Numbers to 100 Chapter3: Time Chapter4: Shapes and Solids Chapter5: Addition and Subtraction Chapter6: Measurement Chapter7: Position and Movement	Chapter8: Multiplication Chapter9: Money Chapter10: Division Chapter11: Fractions Chapter12: Handling Data Chapter13: Chance
Three	Chapter1: Numbers to 1000 Chapter2: Time Chapter3: Addition and Subtraction Chapter4: Shapes and Solids Chapter5: Multiplication and Division Chapter6: Position and Movement	Chapter7: Perimeter and Area Chapter8: Mass and Capacity Chapter9: Money Chapter10: Fractions Chapter11: Handling Data Chapter12: Chance
Four	Chapter1: Number to 100 000 Chapter2: Time Chapter3: Addition and Solids Chapter4: Angles, Shapes and Solids Chapter5: Multiplication and Division	Chapter6: Perimeter and Area Chapter7: Position and Movement Chapter8: Fractions Chapter9: Percentage Chapter10: Handling Data Chapter11: Chance
Five	Chapter1: Number to 1000 000 Chapter2: Number Operations Chapter3: Angles, Shapes and Solids Chapter4: Perimeter and Area Chapter5: Fractions Chapter6: Decimals	Chapter7: Time Chapter8: Position and Movement Chapter9: Percentage Chapter10: Ratio and Proportion Chapter11: Handling Data Chapter12: Probability
Six	Chapter1: Number to 10 000 000 Chapter2: Number Operations Chapter3: Angles, Shapes and Solids Chapter4: Fractions Chapter5: Decimals	Chapter6: Position and Movement Chapter7: Percentage Chapter8: Ratio and Proportion Chapter9: Handling Data Chapter10: Probability



4. Cambridge Primary Math's 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 5: Addition and Subtraction Chapter 6: Multiplication and Division Chapter 7: Number Patterns Chapter 9: Fractions, Percentages and Decimals Chapter 10: Calculations with Fractions	Chapter 11: Ratio and Proportion Chapter 3: 2d Shapes and Angles Chapter 4: 3d Shapes, Volume and Capacity Chapter 12: Data Handling and Statistical Inquiry Chapter 13: The Coordinate Grid Chapter 14: Reflection and Rotation Chapter 8: Probability

5. Collins International Primary Math's 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 9-10: 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 25: 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



5. Collins International Primary Math's 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 12-13: Fractions A and B Unit 15-16: Fractions	Unit 26-27: Statistics and Probability Unit 8-9: Division Whole Numbers A and B Unit 10-11: Place, Value and Decimals 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 11: 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. Cambridge Primary Mathematics Second Edition - Cambridge University Press:

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



6. 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





6. 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

7. Hodder Cambridge Primary Mathematics Second Edition - Hodder Education:		
Grade	Semester 1	Semester 2
One	Unit 1: Numbers to 20	Unit 10: Time and Measurement

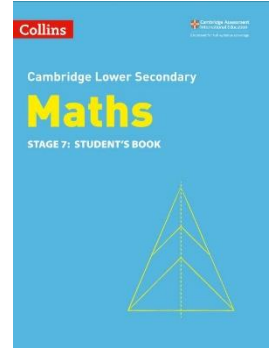
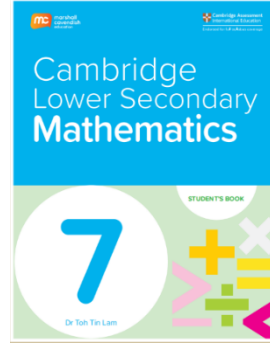
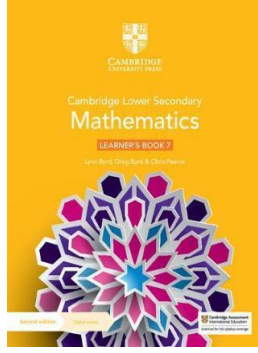
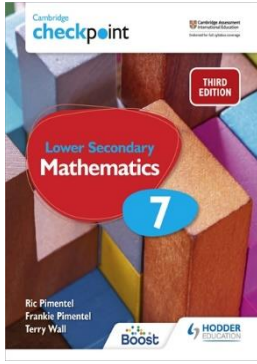


7. Hodder Cambridge Primary Mathematics Second Edition - Hodder Education:

Grade	Semester 1	Semester 2
	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 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 (7-8)

Section (3): Grades (7-8)



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قائمة السلاسل التعليمية الأساسية المعتمدة ومكوناتها الإلزامية لمادة الرياضيات – الصفوف (7-8)

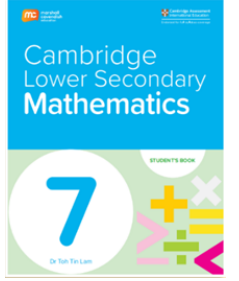
List of Approved Series and their Compulsory Components – Grades (7- 8)

	Titles	Publisher	Components	Grade	Comments
1	Cambridge Lower Secondary Mathematics 1 st Edition	Marshall Cavendish Education	Student's Book 7	7	
			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					
2	Cambridge Lower Secondary Mathematics 2 nd Edition	Cambridge University Press	Learner's Book 7	7	
			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	Cambridge Checkpoint Lower Secondary Math's 3 rd Edition	Hodder Education	Student's Book 7	7	
			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					
4	Cambridge Lower Secondary Math's 2 nd Edition	Collins	Student Book 7	7	
			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					

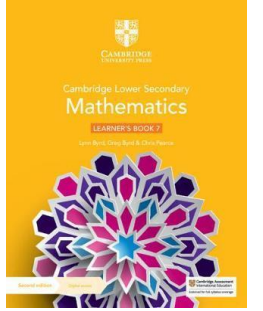
أرقام الـ ISBNs لمكونات السلاسل التعليمية الأساسية المعتمدة لمادة الرياضيات - الصفوف (7-8)

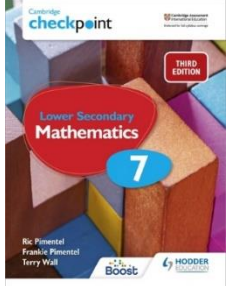
ISBNs of the Approved Series Components - Grades (7- 8)

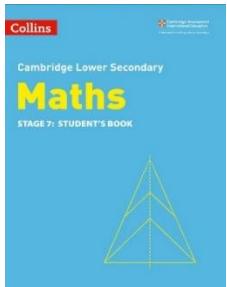
1. Cambridge Lower Secondary Mathematics (1st edition) - Marshall Cavendish Education:

Component	Grade	ISBN	Book Cover
Student's Book 7	7	9789815090390	
Workbook 7		9789815090420	
Teacher's Guide 7		9789815090451	
Student's Book 8	7 – 8	9789815090406	
Workbook 8		9789815090437	
Teacher's Guide 8		9789815090468	
Student's Book 9	8	9789815090413	
Workbook 9		9789815090444	
Teacher's Guide 9		9789815090475	

2. Cambridge Lower Secondary Mathematics (2nd edition) - Cambridge University Press:

Component	Grade	ISBN	Book Cover
Learner's Book 7	7	9781108771436	
Workbook 7		9781108746366	
Teacher's Resource 7		9781108771405	
Learner's Book 8	7 & 8	9781108771528	
Workbook 8		9781108746403	
Teacher's Resource 8		9781108771450	
Learner's Book 9	8	9781108783774	
Workbook 9		9781108746502	
Teacher's Resource 9		9781108783897	

3. Cambridge Checkpoint Mathematics (3 rd edition) - Hodder Education:			
Component	Grade	ISBN	Book Cover
Student's Book 7	7	9781398301948	
Workbook 7		9781398301269	
Teacher's Guide 7		9781398300729	
Student's Book 8	7 – 8	9781398301993	
Workbook 8		9781398301283	
Teacher's Guide 8		9781398300736	
Student's Book 9	8	9781398302044	
Workbook 9		9781398301306	
Teacher's Guide 9		9781398300743	

4. Cambridge Lower Secondary Mathematics (2 nd edition) – Collins:			
Component	Grade	ISBN	Book Cover
Student Book 7	7	9780008340858	
Workbook 7		9780008378561	
Teacher's Guide 7		9780008378592	
Student Book 8	7 – 8	9780008378547	
Workbook 8		9780008378578	
Teacher's Guide 8		9780008378608	
Student Book 9	8	9780008378554	
Workbook 9		9780008378585	
Teacher's Guide 9		9780008378615	

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. أدوات هندسية بحجم كبير لاستخدام المعلم على السبورة: المثلث الثلاثيني الستيني والمثلث متساوي الساقين، منقلة، مسطرة، فرجار.
2. A range of measurement tools for: Weight, length, distances, and capacity. مجموعة أدوات القياس لكل مما يلي: الأوزان، الأطوال، المسافات، السعة.
3. Grid whiteboard (In addition to the normal whiteboard). سبورة الرسم البياني (بالإضافة للسبورة العادية في الفصل).
4. Different sets of dices with different number of sides. مجموعة من أحجار النرد متنوعة في عدد الأوجه.
5. A laptop for each teacher. جهاز حاسوب لكل معلم.
6. Projectors. أجهزة عرض.
7. Internet connection. شبكة إنترنت متاحة.

توزيع المحتوى على الفصلين الدراسيين - الصفوف (7-8)

Content Distribution - Grades (7- 8)



1. Cambridge Lower Secondary Mathematics 1st Edition – Marshall Cavendish Education:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Chapter 1: Numbers Chapter 2: Fractions , Decimals and Percentages . Chapter 3: Ratio and Proportion. Chapter 4: Algebra Chapter 5: Inequalities, Sequences ,Function and Graphs Chapter 6 : Statistics Chapter 7 : Probabiility Chapter 8 : 2D and 3D Shapes. Chapter 9 :Maps , Scales and Transformation . Chapter 10 : Measurement of 2D and 3D Shapes .	Student Book 7 Work book 7
2 nd Semester	Chapter 1: Numbers Chapter 2 : Fractions, Decimals and Percentages . Chapter 3 : Ratio and Proportion . Chapter 4 : Algebraic Manipulation. Chapter 6 : Measurement , Distance and Angles . Chapter 9 :Statistics . Chapter 10 : Probabiility	Work Book 8 [From Page 1 to page 45] [From Page 69 to page 89] [From Page 133 to page 164]

Grade 8

1 st Semester	Chapter 3 : Ratio and Proportion . Chapter 4: Algebraic Manipulation. Chapter 5 : Inequalities ,Sequences, Function and Graphs. Chapter 7 :3D shapes Chapter 8 : Coordinates and Transformation .	Work Book8 [From Page 46 to page 68] [From Page 90 to page 132]
	Chapter 1 : Numbers Chapter 2 : Fractions, Decimals and Percentages . Chapter 3 :Ratio and Proportion . Chapter 4 : Algebra .	Work Book 9 [from Page 1 to page 71]
2 nd Semester	Chapter 5: Inequalities ,Sequences ,Function and Graphs Chapter 6 2D and 3D Shapes . Chapoter 7 : Angles , Bearings and Scale Drawings. Chapoter 8 : Coordinates and Transformation. Chapter 9 : Statistics . Chapter 10 : Probability .	Work Book 9 [from Page 72 to page 184]

2. Cambridge Lower Secondary 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 transformation . 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: 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	Workbook 8: From page 7 to page 105
Grade 8		
1 st Semester	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: Shapes, area, and volume Unit 16: Interpreting and results	WorkBook8: From page 112 to page 232
	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 page63
2 nd Semester	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

3. Cambridge Checkpoint Math's 3rd Edition - Hodder Education:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Unit 1: Addition, subtraction, Multiplication and Division	Student's Book 7: From page 1 to page 185
	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	
2 nd Semester	Unit 24: Introduction to functions	Student's Book 7: From page 192 to page 247
	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	Student's Book 8: From page 1 to page 127
	Unit 30: Graphs and rates of change	
	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 events		
Unit 11 : Decimals and place value		
Unit 12: Comparing and interpreting.		
Unit 13: Transformation of 2D shapes		
Unit 14: Fractions and decimals		
Unit 15: Manipulating algebraic expressions.		

3. Cambridge Checkpoint Math's 3rd 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

4. Cambridge Lower Secondary Mathematics – Collins:

Grade 7

Semester	Chapters	Main Resource
1 st Semester	Chapter 1: Factors	Student's Book 7: From page 2 to page 229
	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	
2 nd Semester	Chapter 21: Equations and inequalities	Student's Book 7: From page 223 to page 318
	Chapter 22: Ratio and proportion	
	Chapter 23: Probability	
	Chapter 24: Sequences	
	Chapter 25: Accurate drawing	
	Chapter 26: Thinking statistically.	
	Chapter 27: Relationships and graphs	
2 nd Semester	Chapter 1: Negative numbers, indices, and roots	Student's Book 8: From page 2 to page 165
	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	

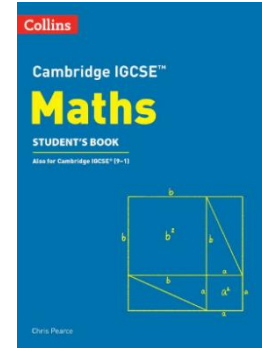
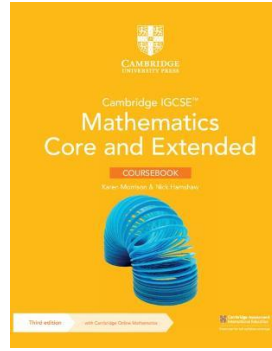
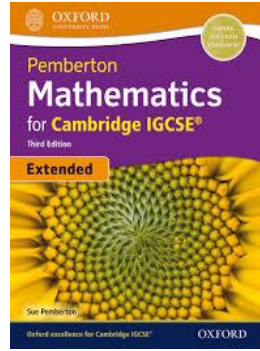
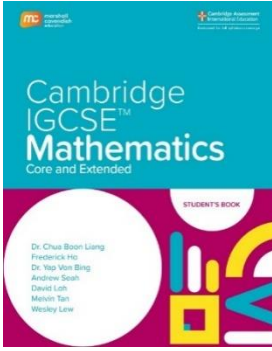
4. Cambridge Lower Secondary Mathematics – Collins:

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 2. 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

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توزيع المخرجات التعليمية على الفصلين الدراسيين



قائمة المصادر التعليمية الأساسية المعتمدة لمادة الرياضيات – الصفوف (9-10)

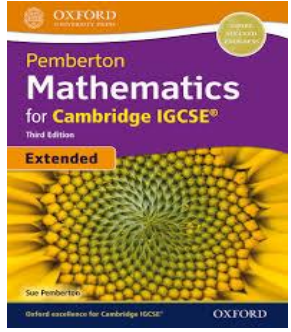
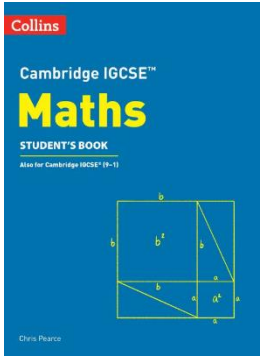
List of Approved Essential Resources – Math – Grades (9- 10)

No	Titles	Publisher	Components	Comments
1	Cambridge IGCSE Mathematics Core and Extended (First Edition)	Marshall Cavendish Education	Student's Book	
			Workbook	
			Teacher's Guide	
2	Cambridge IGCSE Mathematics Core and Extended (Third Edition)	Cambridge University Press	Coursebook	
			Practice Book	
			Digital Teacher's Resource	
3	Pemberton Mathematics for Cambridge IGCSE – Extended (Third Edition)	Oxford University Press	Coursebook	
			Teacher Resource Pack	
4	Cambridge IGCSE Maths (Fourth Edition)	Collins	Student Book	
			Student Workbook	
			Teacher's Guide	

مكونات السلاسل التعليمية الأساسية المعتمدة مع أرقام (ISBNs) لمادة الرياضيات – الصفوف (9-10)

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

	Components	Publisher	ISBN	Book Cover
1	Cambridge IGCSE Mathematics Core and Extended Student's Book (First Edition)	Marshall Cavendish Education	9789814913065	
	Cambridge IGCSE Mathematics Core and Extended Workbook (First Edition)		9789814913072	
	Cambridge IGCSE Mathematics Core and Extended Teacher's Book (First Edition)		9789814913089	
2	Cambridge IGCSE Mathematics Core and Extended Coursebook (Third Edition)	Cambridge University Press	9781009343671	
	Cambridge IGCSE Mathematics Core and Extended Practice Book		9781009297974	
	Cambridge IGCSE Mathematics Core and Extended Digital Teacher's Resource		9781009298209	

3	Pemberton Mathematics for Cambridge IGCSE - Extended (Third Edition)	Oxford University Press	9780198424802	
	Pemberton Mathematics for Cambridge IGCSE Teacher Resource Pack – Extended (Third Edition)		9780198428473	
4	Cambridge IGCSE math's - Student book (Fourth Edition)	Collins	9780008546052	
	Cambridge IGCSE math's - Teacher Guide (Fourth Edition)		9780008546069	
	Cambridge IGCSE math's - Workbook (Fourth Edition)		9780008670849	

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.

1. أدوات هندسية بمجم كبير لاستخدام المعلم على السبورة: المثلث الثلاثيني السنتي والمثلث متساوي الساقين، منقلة، مسطرة، فرجار.
2. سبورة الرسم البياني (بالإضافة للسبورة العادية في الفصل).
3. جهاز حاسوب لكل معلم.
4. جهاز عرض.
5. 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.

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) Transformation

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

نهاية النشرة

End of the Newsletter

