



Year 7 Maths Topic Overview



Topics	DFM Key Skills	%
1. Analysing and Displaying Data		
1.1 Mode, median and range	207	
1.2 Displaying data - Bar charts, pictograms, bar-line charts, frequency tables	31, 65, 133, 235, 237	
1.3 Grouping data - Grouped frequency tables, discrete and continuous data	312, 314	
1.4 Averages and comparing data - mode, median, range and mean	132, 207	
1.5 Line graphs and more bar charts	30, 114, 65	
2. Number Skills		
2.1 Mental maths - Priority of operations (GEMS), estimating	45, 188, 115, 39	
2.2 Addition and subtraction	40, 41	
2.3 Multiplication	67, 156	
2.4 Division	89, 156	
2.5 Money and time	50, 127, 61, 113, 59	
2.6 Negative numbers	86, 87, 155, 156	
2.7 Factors, multiples and primes	97, 161, 162	
2.8 Square numbers	88, 157	
3. Expressions, Functions and Formulae		
3.1 Functions - function machines	133, 432	
3.2 Simplifying expressions - Collecting like terms	193	
3.3 Simplifying expressions 2 - Expanding single brackets, multiplying and dividing algebraic	191, 192, 252	
3.3.5 Factorising single brackets	253	
3.4 Writing expressions	198	
3.5 Substituting into formulae	136, 196	
3.6 Writing formulae	198	
3.7 Solve one and two step equations	199, 257	
3.8 Expand double brackets	300	
4. Decimals and Measures		
4.1 Decimals and rounding (inc significant figures)	69, 75, 187	
4.4 Working with decimals mentally - multiplying	70, 123	
4.2 Length, mass and capacity	15, 107	
4.3 Scale diagrams and measures	108, 137	
4.5 Working with decimals - add, subtract, multiply, divide	70, 74, 123, 125	
4.6 Perimeter	79, 180	
4.7 Area - rectangles, compound shapes, triangles	80, 138, 139, 140, 181, 182	
4.8 More units of measure	15, 107	
5. Fractions and Percentages		
5.1 Comparing fractions	55, 98, 99, 116	
5.2 Simplifying fractions	98	
5.3 Working with fractions - Add, subtract, multiply, divide, mixed numbers, fractions of amounts	56, 57, 101, 118, 167, 168	
5.4 Equivalent fractions and decimals	172	
5.5 Understanding percentages - convert to a fraction or percentage	172	
5.6 Percentages of amounts	130, 214, 219	
6. Probability		
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6.5 Expected outcomes	251	
7. Ratio and Proportion		
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7.5 Proportions and percentages	172, 176	
8. Lines and Angles		
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8.2 Lines, angles and triangles	76, 149, 150	
8.3 Drawing triangles accurately	287b	
8.4 Calculating angles	110, 149, 150, 151	
8.5 Angles in a triangle	149	
8.6 Quadrilaterals - angles and properties of	77	
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8.8 Bearings	265	

9. Sequences and Graphs	
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9.2 Pattern sequences	135
9.6 Position-to-term rules	204
9.4 Extending sequences	203
9.3 Coordinates and midpoints	83, 266
9.5 Straight-line graphs	269, 270, 271, 272, 273, 274
10. Transformations	
10.1 Congruency and enlargements	295, 296, 297, 298
10.2 Symmetry	78b, 281
10.3 Reflection	153, 279, 280
10.4 Rotation	281, 282, 283
10.5 Translations and combined transformations	375, 376

Additional Resources			
Worksheets on Sharepoint These include most of the topics covered in the year. They each have three levels of difficulty (support, core and then depth) and the answers are at the end of the document.		Youtube - Corbett Maths Here you can find lots of videos on GCSE topics. Complete the questions as you watch the video.	
Corbett Maths Here you can find worksheets filtered by topic as well as written and video solutions		Dr Frost Use the Dr Frost numbers to the left to complete questions on these topics. You can also complete past paper questions on here too.	

Set yourself up for success with assessments...	
Chapter Assessments	End of Term/Year Assessments
Check up booklet Complete the booklet, then go through it using the worked solutions. Use the front cover to help guide you through next steps.	Topic list Identify areas to work on. Start practising these Key Skills on DFM
Strengthen/Extend Decide from your check up booklet which one to attempt first. Complete, ensuring full workings are done on paper/in your books. Use this to identify topics for further revision at home. Use resources from QR codes above to practise them.	Key Skills HW on DFM Two weeks before the test. Workings shown neatly in your book.
	Pre-test and other resources given by teacher Use these to identify topics for further revision at home. Use resources from QR codes above to practise them.
Test corrections (Really important to improve exam technique) Use worked/video solutions to make any necessary corrections in green pen Ask your teacher if you still don't understand	
DFM key skills Identify a minimum of 3 Key Skills for further practice from your review sheet Write these out neatly in the front of your exercise book with full workings 10 questions from each Key Skill Use the Exam Skills to extend your learning if you don't have 3 Key Skills	