



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 terms	191, 192, 252	
3.35 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		
6.1 The language of probability	247	
6.2 Calculating probability	248	
6.3 More probability calculations	250	
6.4 Experimental probability	251	
6.5 Expected outcomes	251	
7. Ratio and Proportion		
7.1 Direct proportion	176	
7.2 Writing ratios	224	
7.3 Using ratios	225	
7.4 Ratios, proportions and fractions	176	
7.5 Proportions and percentages	172, 176	

8. Lines and Angles		
8.1 Measuring and drawing angles	109	
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	
8.7 Angles in parallel lines	63, 147, 263	
8.8 Bearings	265	
9. Sequences and Graphs		
9.1 Sequences	135, 202	
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	

Set yourself up for success with assessments...		
Chapter Assessments		End of Term/Year Assessments
Check up booklet Complete the booklet first, showing full workings. Go through the worked solutions to check your answers. Use the front cover to guide your next steps.	Topic list Identify areas to improve using the topic list. Start practising Key Skills on DFM.	Key Skills HW on DFM Two weeks before the test. Workings shown neatly in your book.
Strengthen/Extend Choose a topic from your check-up booklet to focus on first. Practise the skills, ensuring clear, step-by-step workings. Identify any weak areas for further revision at home.	Pre-test and other resources given by teacher Use pre-test and other resources from your teacher. Revise these topics using DFM numbers and QR code resources.	
Test corrections (Really important to improve exam technique) Use worked/video solutions to correct mistakes in green pen. Ask your teacher if you still don't understand a question.		
DFM key skills Identify at least three Key Skills to practise from your review sheet. Write them neatly in the front of your exercise book with full workings. Complete 10 practice questions for each Key Skill. If you have mastered the basics, use Exam Skills to extend your learning.		

General Revision Tips
Plan Your Revision: Create a timetable and stick to it - short, focused sessions work best.
Use DFM - Key skill numbers from pre-tests, topic lists etc tell you exactly what to work on.
Use Exam Style Questions: Practise under timed conditions and check your answers with mark schemes to identify gaps to prioritise.
Mix Up Revision Methods: Use flashcards, mind maps, and online quizzes (e.g. Corbett Maths, DrFrostMaths).
Understand, Don't Just Memorise: Make sure you can explain why a method works, not just how to do it.
Show Full Workings: Even if your final answer is wrong, you can still gain marks for correct steps.
Target Weak Areas: Spend extra time on the topics you find hardest rather than just repeating the ones you're comfortable with.
Use Active Recall: Cover up answers and test yourself instead of just reading through notes.
Stay Consistent: Little and often is better than last-minute cramming!

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.
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 change the difficulty and you can complete past paper questions on here too.
MathsGenie Another place where you can find worksheets filtered by topic as well as written and video solutions