



Year 8 Maths Topic Overview



Topics	DFM Key Skills	%
2. Area and volume		
2.1 Area of a triangle and compound shapes	138, 140, 182	
2.2 Area of a parallelogram and trapezium	139, 184	
2.3 Volume of cubes and cuboids	145	
2.4 2D representations of 3D solids	228	
2.5 Surface area of cubes and cuboids	232	
2.6 Measures - converting between units of length, area and volume	174, 246	
2.7 Area and circumference of circles	209, 210, 211	
3. Statistics, graphs and charts		
3.1 Pie charts	246	
3.2 Using tables - two-way tables, averages from frequency tables	235, 236, 237, 238	
3.3 Stem and leaf diagrams	240	
3.4 Comparing data	132, 207, 403	
3.5 Scatter graphs	244	
3.6 Misleading graphs	K317f	
3.7 Cumulative frequency and box plots	398, 399	
4. Expressions and equations		
4.1 Algebraic powers	191, 192, 193	
4.2 Expressions and brackets - expanding single and double brackets	252, 300	
4.3 Factorising expressions - factorising single and double brackets	253, 363, 364	
4.4 One-step equations	199	
4.5 Two-step equations	199	
4.6 The balancing method	199	
4.7 Inequalities	310, 340	
5. Straight-line graphs (actually chapter 9)		
9.2 Gradients	271	
9.1 Direct proportion on graphs	269	
9.3 Equations of straight lines	269, 272, 273, 274	
9.4 Parallel lines	275	
6. Decimals and ratio		
6.1 Ordering decimals and rounding	69, 75, 187	
6.2 Place-value calculations	69, 70, 123	
6.3 Calculations with decimals	67, 70, 123, 125	
6.4 Ratio and proportion with decimals	224	
7. Lines and angles		
7.1 Quadrilaterals	77	
7.2 Alternate angles and proof	263	
7.3 Angles in parallel lines	263	
7.4 Exterior and interior angles	262	
7.5 Solving geometric problems	262, 263	
8. Calculating with fractions		
8.1 Ordering fractions	175	
8.2 Adding and subtracting fractions	56	
8.3 Multiplying fractions	165	
8.4 Dividing fractions	121, 166	
8.5 Calculating with mixed numbers	101, 118, 167, 168	
9. Real-life graphs (actually chapter 5)		
5.1 Conversion graphs	178	
5.2 Distance-time graphs	149	
5.3 Line graphs	114	
5.4 More line graphs	114	
5.5 Real-life graphs	114, 328	
5.6 Curved graphs	n/a	
10. Percentages, decimals and fractions		
10.1 Fractions and decimals	172, 175	
10.2 Equivalent proportions	K98c	
10.3 Writing percentages	214	
10.4 Percentages of amounts	215, 219, 220, 221, 223	
10.5 Compound interest	360, 362	

Y9 Ch1. Indices and standard form	
1.1 Indices	88
1.2 Calculations and estimates	188
1.3 More indices	158, 299
1.4 Standard form	302, 303
1.5 Surds	336, 337
Y9 Ch3. Dealing with data	
3.1 Planning a survey	K347g
3.2 Collecting data	347
3.3 Calculating averages	313
3.4 Displaying and analysing data	244
3.5 Presenting and comparing data	240

Additional Resources			
Worksheets on Sharepoint		Youtube - Corbett Maths	
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.		Here you can find lots of videos on GCSE topics. Complete the questions as you watch the video.	
Corbett Maths		Dr Frost	
Here you can find worksheets filtered by topic as well as written and video solutions		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	Topic list
Complete the booklet, then go through it using the worked solutions. Use the front cover to help guide you through next steps.	Identify areas to work on. Start practising these Key Skills on DFM
Strengthen/Extend	Key Skills HW on DFM
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.	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	