

Information to Parents / Pupils

Maths: Organised and Ready for Year 8 Summer Exams

1. Before you start revising, get all your notes sorted, and draw up a list of all the topics you need to cover. Plan exactly when you are going to revise, and be strict with yourself with treats to look forward to.

<u>Unit 1- Number</u>	<u>Unit 4- Expressions and Equations</u>	<u>Unit 7- Lines and Angles</u>
Multiplication	Collecting Terms	Angles in Quadrilaterals
Rounding and Estimating	Expressions, Formula, Equations and Terms	Angles in Parallel Lines
Divisibility Rules	Algebraic Powers	Angles in Polygons
Division	Forming Expressions	Geometric Problem Solving
Negative Numbers	Expanding Single Brackets	
Calculations with Negative Numbers	Factorising	<u>Unit 8- Calculating with Fractions</u>
Powers and Roots	Solving Equations: One and Two Step	Ordering Fractions
Prime Factor Decomposition	Solving Equations with Brackets	Mixed Numbers and Improper Fractions
BIDMAS with Powers	Solving Equations with Unknowns on Both Sides	Adding and Subtracting Fractions
	Substitution	Multiplying Fractions
<u>Unit 2- Area and Volume</u>	Writing Expressions, Formula and Equations	Dividing Fractions
Area of a Triangle		
Area of a Trapezium and Parallelogram	<u>Unit 5- Real Life Graphs</u>	<u>Unit 9- Straight Line Graphs</u>
Volume of a Cuboid	Conversion Graphs	Direct Proportion on Graphs
Nets	Distance Time Graphs	Gradients
Plans and Elevations	Line Graphs	Equations of Straight Lines
Surface Area	Real World Graphs	
Measures	Curved Graphs	
Compound Area		
	<u>Unit 6- Decimals and Ratio</u>	
<u>Unit 3- Statistics Graphs and Charts</u>	Rounding and Ordering	
Pie Charts	Estimating	
Two Way Tables	Multiplying Decimals	
Averages from Tables	Dividing Decimals	
Grouped Frequency Tables	BIDMAS with Decimals	
Stem & Leaf Diagrams	Ratio and Proportion with Decimals	
Comparing Data		
Line Graphs		
Scatter Graphs		
Misleading Graphs		

2. **Don't just read through your notes!** The only way to revise maths is to do maths. You will do much better spending 20 minutes doing maths questions than spending two hours just reading a textbook. The more questions you do yourself, the more you will get right, the higher your confidence will be, the more you will enjoy your revision, and the better you will do in the exam.
3. **Use the internet.** The internet is like having your own personal teacher who is available for you whenever you like. We recommend Sparx Maths and Mymaths but there are other websites that can set you questions and mark them for you, take you through step-by-step how to tackle certain topics, and use illustrations and animations that might just make that really annoying topic finally make sense.
4. **Don't just practice the topics you can do.** If you are really good at fractions, for example, it is very tempting to keep doing lots of fractions questions and then smiling as you keep getting them right. But unfortunately the exam is probably not going to have more than one or two fractions questions. Although it can be painful, work your way through the topics that you struggle with, because it is much better to struggle on them at home, when you have time on your side and the answers available, than it is to struggle in the exam.
5. **Make sure you ask for help.** Again, once you are in the exam you are on your own, but during revision you are certainly not. If you are stuck on a topic or a question, then ask one of the people from your class, or your teacher, or someone at home, or look on the internet. Don't suffer alone!
6. **Practice doing questions under exam conditions.** Get someone to pick you a set of questions from your textbook, or get some from a maths website, and try doing them in silence, with no help, for a fixed amount of time. This will get you used to what it will be like in the exam, how fast you need to go, and is the best way of checking that you really understand a topic.
7. **Practice using your calculator!** Many people seem to assume that any question that lets you use a calculator is easy, and all calculators work the same. Those people are wrong on both counts. All calculators work differently, and unless you have used yours for lots of different types of questions (fractions, percentages, negative numbers, indices), you might come unstuck in the exam. Find out if there are any problems early enough to correct them, and don't forget to bring your calculator to the exam.
8. **Most important of all, try not to worry.** A little worry is not a bad thing as it keeps you focused, but revision certainly shouldn't be a stressful time. It should be a time where your brain gets chance to sort all the information it has been bombarded with and make sense of everything.