



Year 7 Mathematics Examination

The mathematics exam will be divided into two papers:

Paper 1: Calculator (40 minutes)

Paper 2: Non-calculator (40 minutes)

The following is a list of suggested revision activities:

YEAR 7			
Topic and Blocks		Main Small Steps	Sparx
	1. Sequences	Describe and continue sequences	M241
		Find the next term(s)	M241
		Linear and non-linear sequences	M813
		Continue linear sequences	M381
		Continue non-linear sequences	M241
		Term-to-term rules	M381
		Find missing terms (E)	M981
	2. Algebraic Notation	1-step function machines (number)	M175
		1-step function machines (algebra)	M830
		Find a function (one step)	M429
		Substitution (one step)	M417
		2-step function machines (number)	M166
		2-step function machines (algebra)	M428
		Find a function (two step)	M166
		Substitution (two step)	M327
	3. Equality and Equivalence	Equality and equivalence	
		Related facts	
		Like and unlike terms	M795
		Collect like terms	M795
		Solve 1-step equations (+/-)	M707
		Solve 1-step equations (x/÷)	M855
		Solve 2-step equations	M509
	4. Place Value, Ordering and Rounding	Write integers in numerals and words	M704
		Intervals on a number line	M763
		Compare and order integers	M527
		Place value for decimals	M522
		Decimals on a number line	M763
		Compare and order decimals	M527
		Round to powers of 10	M111



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		Round to the nearest integer	M111
		Round to decimal places	M431
		Powers of 10 (E)	M719
		Numbers greater than 1 in standard form (E)	M719
		Negative powers of 10 (E)	M678
		Numbers between 0 and 1 in standard form (E)	M678
	5. Four Operations	Add and subtract integers	M928
		Add and subtract decimals	M429
		Multiply and divide by 10, 100 and 1000	M911
		Multiply by 0.1 and 0.01 (E)	M911
		Multiply integers	M187
		Divide integers	M354
		Multiply decimals	M803
		Divide decimals by integers	M262
		Divide by a decimal (E)	M491
		Order of operations	M521
	6. Averages and Range	Mode	M841
		Mean	M940
		Median	M934
		Range	M328
		Solve problems with averages and range	M440
	7. Rounding and Estimation	Round to 1 significant figure	M994
		Round to 2 or more significant figures	M994
		Estimate answers to calculations	M878
		Solve problems with estimation	M878
		Understand and use error interval notation (E)	M730
	8. Graphing Data	Pictograms	M644
		Bar charts	M460
		Dual bar charts	M738
		Composite bar charts	M738
		Coordinates in the first quadrant	M618
		Scatter graphs	M769
		Correlation	M596
		Lines of best fit	U128
		Time series graphs	
		Non-linear relationships	
	9. Fractions, Decimals	Represent tenths and hundredths	M958
		Number lines with fractions and decimals	M335
		Tenths, hundredths, fifths and quarters	M958



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		Eighths and thousandths	M958
		Understand percentages	M553
		Convert simple fractions, decimals and percentages	M264
		Fractions as diagrams	M158
		Fractions on a number line	M410
		Equivalent fractions	M410
		Fractions as division	M671
		Convert fractions, decimals and percentages	M264
		Fractions, decimals and percentages greater than 1 (E)	M958
	10. Directed Number	Directed number and number lines	M704
		Compare and order directed numbers	M704
		Calculations that cross zero	M160
		Directed number and zero pairs	M160
		Add directed numbers	M106
		Subtract directed numbers	M106
		Multiply and divide directed numbers	M288
		Order of operations with directed numbers	M521
		Use a calculator with directed numbers	
	11. Fractions and percentages of amounts	Fraction of an amount	M695
		Use a fraction to find the whole	
		Percentage of an amount (non-calculator)	M437
		Percentage of an amount (calculator)	M905
		Percentage increase and decrease	M905
		Use a percentage to find the whole (E)	M528
		Solve problems with fractions and percentages greater than 1 (E)	
	12. Perimeter and Area	Convert metric units of length	M772
		2 Perimeter of a polygon	M635
		Perimeter of a compound shape	M690
		Area of rectangles and parallelograms	M291
		Area of a triangle	M610
		Area of a trapezium	M705
		Solve problems with perimeter and area	M303
		Form expressions with perimeter and area (E)	