

Maths Personal Learning Checklist

Algebra	Grade 9	R	A	G
	Approximate solutions to equations using iteration.			
	Equation of a circle			
	Equation of a tangent			
	Grade 8	R	A	G
	Algebra and Proof G			
	Gradients and area under a graph			
	Graphs of trigonometric functions			
	Quadratic equations (completing the square)			
	Grade 7	R	A	G
	Composite functions			
	Expand the product of two or more binomials			
	Factorising difficult quadratic expressions			
	Geometric Sequences			
	Graphs of exponential functions			
	Quadratic equations (needing re arrangement)			
	Quadratic equations (quadratic formula)			
	Real-life exponential graphs			
	Represent quadratic inequalities			
	Simultaneous equations (non-linear)			
	Solve quadratic inequalities			
	Translations and reflections of a function			
	Turning points & completing the squar			
	Grade 6	R	A	G
	Algebraic fractions inequalities 6 Simultaneous equations (linear			
	Identifying parallel lines			
	Inverse functions			
	Linear inequalities in two variables			
	nth term of a quadratic sequence			
	Quadratic equations (factorisation)			
	Quadratic equations (graphical methods)			
	Represent linear inequalities			
	Simultaneous equations (linear)			
	Grade 5	R	A	G
	Algebraic argument			
	Algebraic terminology			
	Cubic and Reciprocal graphs			
	Deduce quadratic roots algebraically			
	Derive an equation			
	Equation of a line			
	Expand the product of two binomials			
	Factorising quadratic expressions			
	Fibonacci, quadratic and simple geometric sequences			
	Graphical solution to equations			
	Inequalities on number lines			
	Linear equations			
	Quadratic graphs			
	Reciprocal real-life grap			
	Simplify indices			
	Simplify surds			
	Solve linear inequalities in one variable			
	Writing formulae and expressions			
	Grade 4	R	A	G
	Changing the subject			
	Collecting like terms			
	Expressions			
	Factorise single bracket 4 Finding the equation of a lin			
	Graphs of linear functions			
	Graphs of quadratic functions			
	Linear equations one unknown			
	Multiplying single brackets			
	Non-standard real life graphs			
	nth term of a linear sequence			
	Number machines			
	Substitution			
	Using "y = mx + c"			
	Grade 3	R	A	G
	Using Formulae			
	Grade 2	R	A	G
	Sequences and Rules			

Geometry & Measures

Grade 8	R	A	G
Circle theorems			
Vector arguments and proof			
Grade 7	R	A	G
Area of a triangle			
Cosine Rule			
Pythagoras and trig 2D and 3D			
Sine Rule			
Grade 6	R	A	G
Combined transformations			
Congruence and Similarity			
Standard trigonometric ratios			
Grade 5	R	A	G
Arc lengths and sectors			
Derive triangle results			
Enlargements and negative SF			
Loci			
Pythagoras			
Similarity and Congruence			
Standard constructions			
Surface Area			
Trigonometric ratios			
Volume			
Grade 4	R	A	G
Alternate and corresponding angles			
Area of a circle			
Areas of composite shapes			
Areas of triangles, trapezia and parallelograms			
Bearings			
Circle terminology			
Circumference of a circle			
Congruent triangles			
Enlargements and fractional SF			
Perimeter of 2D shapes			
Plans and elevations			
Polygons			
Solve geometrical problems			
Vector arithmetic			
Volume of prisms			
Grade 3	R	A	G
3-D Shapes			
Congruent and similar shapes			
Geometric terminology and diagrams			
Measuring lines and angles			
Properties of quadrilaterals			
Properties of triangles			
Translations and vectors			
Using standard units			

Number	Grade 8	R	A	G
	Surds			
	Grade 7	R	A	G
	Index Laws (negative and fractional)			
	Product rule			
	Recurring Decimals			
	Upper and lower bounds			
	Grade 6	R	A	G
	Finance 1			
	Powers and Roots			
	Product of prime factors			
	Using Pi			
	Grade 5	R	A	G
	Calculating with fractions			
	Error intervals			
	Index Laws			
	Limits of accuracy			
	Grade 4	R	A	G
	Adding and subtracting fraction			
	Checking calculations			
	Compound measures			
	Converting metric units			
	Estimation			
	Fractions and percentages			
	Fractions and ratio problems			
	Interpret calculator displays			
	LCM and HCF			
	Multiples and factors			
	Multiplying fractions			
	Operations			
	Order of operations			
	Powers			
	Rounding			
	Standard Form			
	Terminating decimals and fraction			
	Grade 3	R	A	G
	Decimals			
	Listing outcomes			
	Prime numbers			
	Using standard units			
	Grade 2	R	A	G
	Multiplying integers			
	Ordering numbers			
	Place value			
Probability	Grade 7	R	A	G
	Conditional Probability			
	Grade 5	R	A	G
	Probability of dependent events			
	Probability of independent events			
	Grade 4	R	A	G
	Mutually exclusive sum			
	Relative Frequency			
	Tables and Grids			
	Theoretical Probability			
	Unbiased Samples			
	Venn Diagrams			
	Grade 3	R	A	G
	Frequency Trees			
	Probability of equally likely outcomes			

Ratio, Proportion and Rates of change	Grade 9	R	A	G
	Gradients and the rate of change			
	Grade 7	R	A	G
	General iterative processes			
	Grade 6	R	A	G
	Direct and inverse proportion			
	Grade 5	R	A	G
	Compound Units			
	Gradient & the rate of change			
	Growth and decay			
	Interpret Proportion			
	Percentage change			
	Problems with compound units			
	Scale factors and similarity			
	Simple Interest and Financial Maths			
	Solve Proportion Problems			
	Grade 4	R	A	G
	Compare Fractions, Decimals and Percentages			
	Compare lengths, area, volume			
	Comparing quantities as a ratio			
	Division of a quantity as a ratio			
	Express one quantity as a % of another			
	Percentage change			
	Problems involving ratio			
	Proportion and ratio			
	Ratio and fractions			
	Ratio Sharing			
	Grade 3	R	A	G
	Convert standard units			
	Express one quantity as a fraction of another			
	Use ratio notation			
	Use scale factors, diagrams and maps			
Statistics	Grade 6	R	A	G
	Boxplots			
	Cumulative frequency			
	Histograms with unequal class widths			
	Quartiles and Interquartile Range			
	Grade 5	R	A	G
	Histograms with equal class widths			
	Scatter graphs			
	Grade 4	R	A	G
	Comparing data using graphs			
	Comparing Distributions			
	Correlation			
	Population			
	Sampling			
	Scatter Diagram			
	Time series			
	Grade 3	R	A	G
	Charts and Diagrams			
	Pie Charts			
	Types of data			
	Vertical Line Charts			