

The Spires College Mathematics Department Scheme of Learning

Summer Term 1 [April to May] – MathsWatch Clips

	Topic 1 MathsWatch Clips		Topic 2 MathsWatch Clips		Topic 3 MathsWatch Clips	
Year 7	Constructing, Measuring & Geometric Notation	G1 - Basic Geometric Definitions G10a - Measuring and Drawing Angles - Introduction G10b - Measuring Angles G10c - Drawing Angles G11 - Polygons G14 - Properties of Quadrilaterals G16 - Properties of Special Triangles S9 - Pie Charts	Geometric Reasoning	G13 - Angle Facts G17 - Angles in a Triangle - Calculation G18 - Angles and Parallel Lines		
Year 8	Angles in Parallel Lines & Polygons	G11 - Polygons G13 - Angle Facts G14 - Properties of Quadrilaterals G16 - Properties of Special Triangles G17 - Angles in a Triangle - Calculation G18 - Angles and Parallel Lines G19 - Angle Sum of Polygons	Area of trapezia & Circles	G20a - Area - Rectangles G20b - Area - Parallelograms G20c - Area - Triangles G20d - Area - Trapeziums G22a - Circles - Circumference G22b - Circles - Area G24 - Area - Composite Shapes	Line & Reflective Symmetry	G3 - Line Symmetry G4a - Reflection - Horizontal and Vertical Lines G4b - Reflection - Diagonal Lines
Year 9	Enlargement & Similarity	144 - Similar Shapes 148 - Enlargements	Solving Ratio & Proportion Problems	39 - Using Ratio for Recipe Questions 41 - Value for Money 42 - Introduction to Proportion 106 - Sharing using Ratio 107 - Ratios, Fractions and Graphs	Rates	142 - Compound Units 143 - Distance-Time Graphs
Year 10	Collecting, Representing & Interpreting Data	15 - Tally Charts and Bar Charts 61 - Two-Way Tables 62 - Averages and the Range 63 - Data - Discrete and Continuous 64 - Vertical Line Charts 65 - Frequency Tables and Diagrams 128a - Representing Data - Pie Charts 128b - Representing Data - Stem and Leaf Diagrams 153 - Time Series	Non-Calculator Methods	17 - Adding Integers and Decimals 18 - Subtracting Integers and Decimals 19 - Multiplying Integers 20 - Dividing Integers 66 - Multiplying Decimals 67 - Dividing Decimals 68a - Four Rules of Negatives - Adding and Subtracting 68b - Four Rules of Negatives - Multiplying and Dividing 71a - Adding and Subtracting Fractions - A Standard Method 71b - Adding and Subtracting Fractions - An Alternative Method 132 - Introduction to Bounds		

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Summer Term 2 [June to July] – MathsWatch Clips

	Topic 1 MathsWatch Clips		Topic 2 MathsWatch Clips		Topic 3 MathsWatch Clips	
Year 7	Developing Number Sense	N3a - Adding Integers - Mentally N4a - Subtracting Integers - Mentally N5 - Multiplication by 2, 3, 4, 5 and 10 N6 - Division by 2, 3, 4, 5 and 10 N10 - Factors N13b - Addition - Decimals N14b - Subtraction - Decimals N27a - Rounding - Nearest 10, 100, 1000 N43a - Estimating Answers - Multiplication N43b - Estimating Answers - Division	Sets & Probability	P1 - The Probability Scale P2a - Outcomes - Basics P6 - Venn Diagrams	Primes & Proof	N10 - Factors N11 - Multiples N12 - Number Patterns N30a - Prime Numbers - Introduction N30b - Prime Numbers - Factorisation N31a - HCF and LCM - Highest Common Factor N31b - HCF and LCM - Lowest Common Multiple
Year 8	The Data Handling Cycle	S1a - Pictograms - Interpreting S1b - Pictograms - Drawing S2a - Bar Charts - Interpreting S2b - Bar Charts - Drawing S3 - Frequency Tables - Ungrouped Data S4 - Frequency Tables - Grouped Data S5 - Frequency Diagrams	Measures of Location & Dispersion	S6 - Median, Mode and Range S7 - The Mean Average S10a - Averages from Tables - Mode, Median, Mean		
Year 9	Probability	14 - The Probability Scale 57 - Frequency Trees 58 - Listing Outcomes 59 - Calculating Probabilities 65 - Frequency Tables and Diagrams 125 - Experimental Probabilities 151 - Simple Tree Diagrams	Algebraic Representation	138 - Inequalities on a Number Line 157 - Factorising and Solving Quadratics 160 - Roots and Turning Points of Quadratics		
Year 10	Types of Number & Sequences	28 - Factors, Multiples and Primes 37 - Generating a Sequence - Term to Term 78 - Product of Primes 79 - Highest Common Factor (HCF) 80 - Lowest Common Multiple (LCM) 102 - Generating a Sequence from the nth Term 103 - Finding the nth Term 104 - Special Sequences 163 - Geometric Progressions	Indices & Roots	29 - Introduction to Powers/Indices 81 - Squares, Cubes and Roots 82 - Working with Indices 83 - Standard Form 131 - Index Notation 154 - Negative Indices	Manipulating Expressions	33 - Simplifying - Addition and Subtraction 34 - Simplifying - Multiplication 35 - Simplifying - Division 100 - Solving Equations using Flowcharts 135a - Solving Equations - Balancing 135b - Solving Equations - Float & Ping 139 - Solve Linear Inequalities 193 - Algebraic Proof

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