CENTURY

SECONDARY MATHS COURSE MAPPING

Supercharge learning through personalisation

www.century.tech

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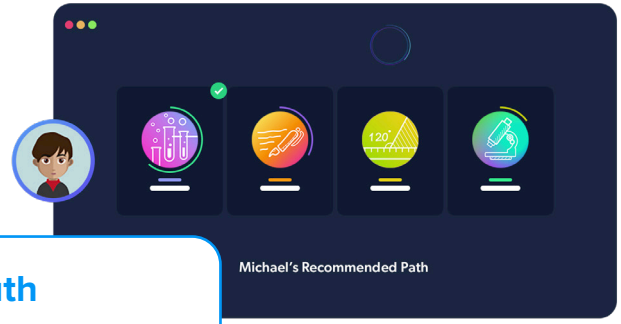
HOW CENTURY WORKS



Diagnostics

Learners begin by completing diagnostics that quickly identify knowledge gaps and misconceptions, and help CENTURY recommend the best learning materials for each individual learner.

Recommended Path

This constantly adapting personalised pathway contains micro-lessons designed to address gaps in knowledge, provide stretch and challenge and promote long-term memory retention.

Leadership Dashboard

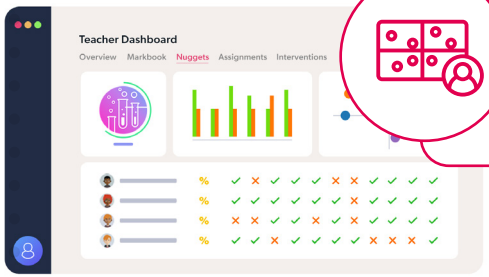
Senior and middle leaders get an overview of performance and engagement on a subject, class and learner level.

Achievements

Learners get rewarded with badges and streaks for completing micro-lessons or using CENTURY over a certain period of time to increase their motivation and engagement.

Automated Marking

Teachers can view data in real time, to help you quickly identify which learners require additional support or further stretch.

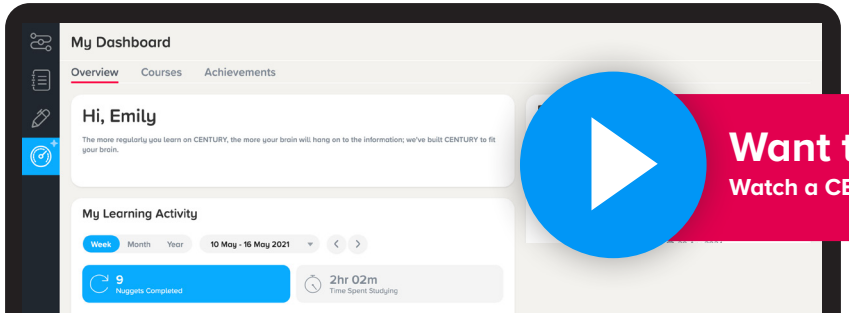


Teacher Dashboard

Use the markbook to monitor individual learners and whole-class trends with a range of dashboards.

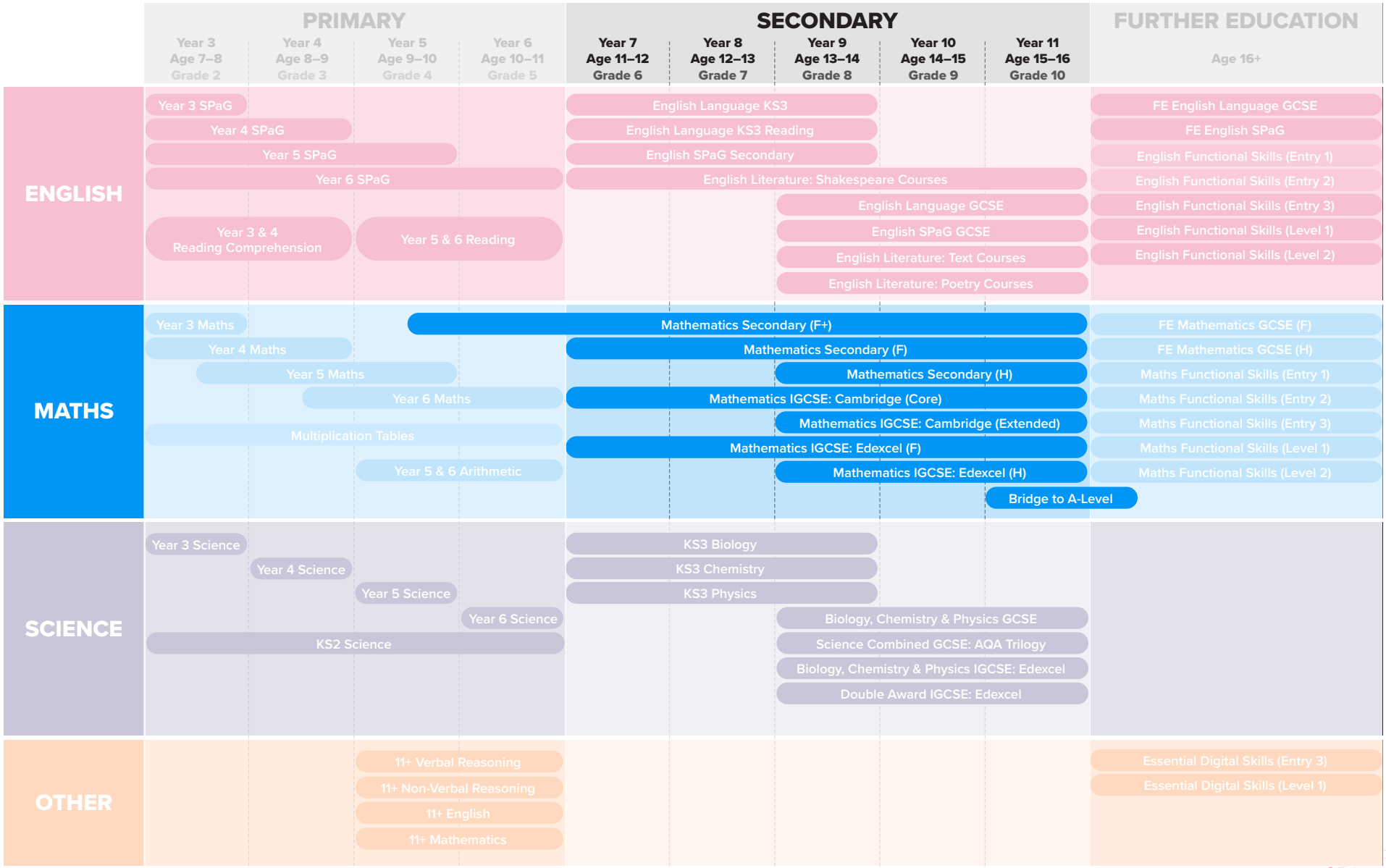
Learner Dashboard & Guardian Portal

Learners can identify their strengths and areas for improvement. Parents and guardians can monitor their learner's progress, completed work, and see work set.



Want to see this in action?
Watch a CENTURY platform walkthrough

CURRICULUM OVERVIEW



Secondary Mathematics

Mathematics Secondary (F)

685 Nuggets

Suitable for KS3 & KS4 students sitting the Foundation GCSE paper. This course is a subset of the Higher course, allowing data transfer between the courses.

Mathematics Secondary (H)

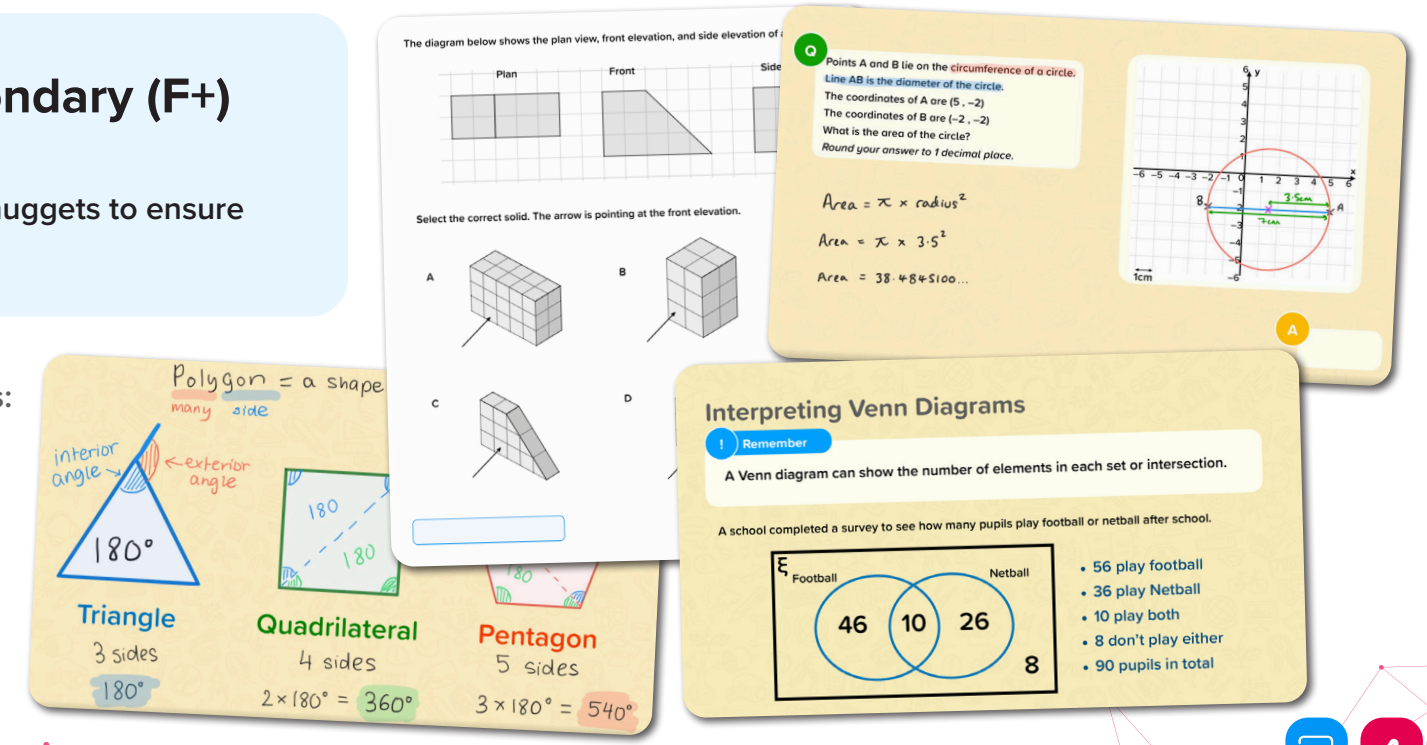
970 Nuggets

Suitable for any student expected to sit the Higher GCSE paper. Course contains the full Foundation course, allowing easy movement between courses if necessary.

Mathematics Secondary (F+)

770 Nuggets

Contains additional diagnostics and nuggets to ensure students are secondary ready.



Courses suitable for all GCSE specifications:

- Edexcel: 1MA1 (QAN: 601/4700/3)
- AQA: 8300 (QAN: 601/4608/4)
- OCR: J560 (QAN: 601/4606/0)
- Eduqas: C300P (QAN: 601/5503/6)

Advanced Mathematics

Mathematics IGCSE

Suitable for students following the Edexcel or Cambridge IGCSE specifications. Designed to allow transfer between courses if necessary.

IGCSE Edexcel (F): 4MA1
660 Nuggets

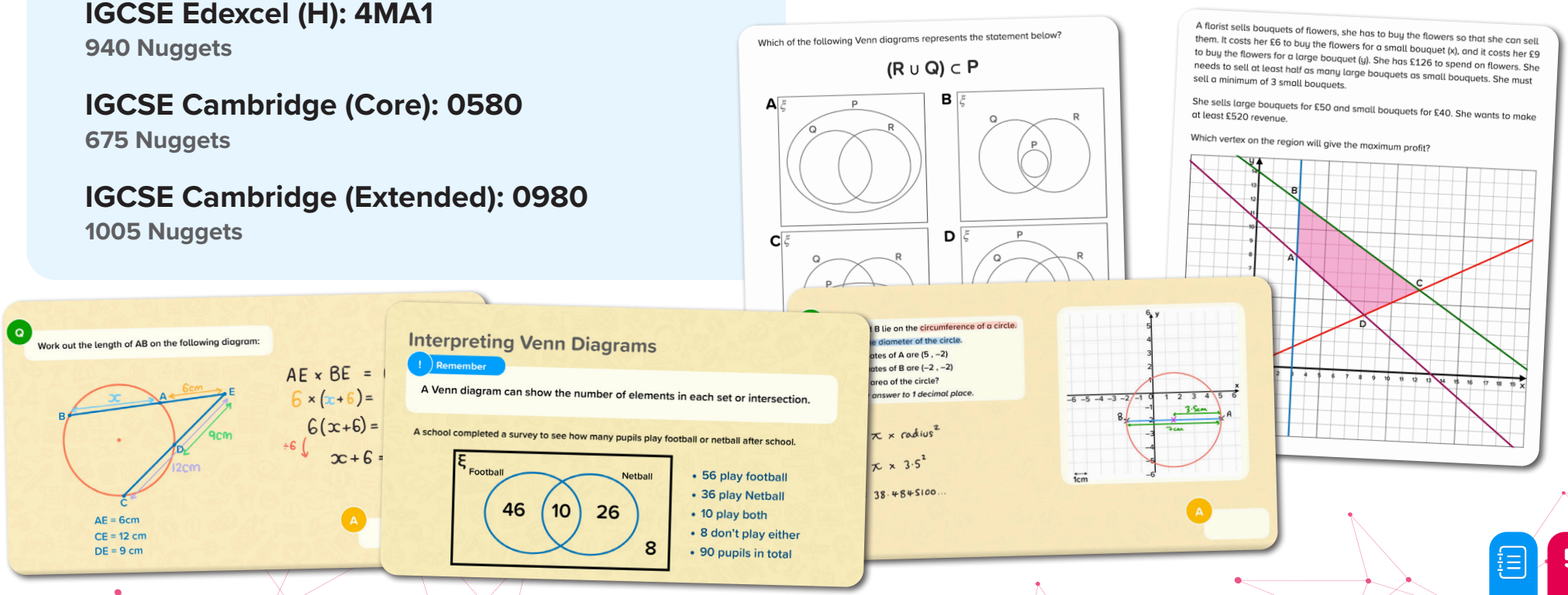
IGCSE Edexcel (H): 4MA1
940 Nuggets

IGCSE Cambridge (Core): 0580
675 Nuggets

IGCSE Cambridge (Extended): 0980
1005 Nuggets

Bridge to A-Level
445 Nuggets

Suitable for GCSE grade 7–9 students who are in need of additional challenge, or students in their first term of A-Level maths. Covers the essential GCSE skills required before students begin A-Level as well as some content beyond the GCSE syllabus (e.g. differentiation).



CENTURY

Nuggets included in Mathematics Secondary (F) & (H)

Nuggets in bold are present in the Higher course only.

Strand	Nugget Names
Diagnostics	Diagnostic: Number 1 [MF0.01]
	Diagnostic: Algebra 1 [MF0.02]
	Diagnostic: Geometry 1 [MF0.03]
	Diagnostic: Number 2 [MF0.04]
	Diagnostic: Probability 1 [MF0.05]
	Diagnostic: Statistics 1 [MF0.06]
	Diagnostic: Algebra 2 [MF0.07]
	Diagnostic: Geometry 2 [MF0.08]
	Diagnostic: Number 3 [MH0.09]
	Diagnostic: Number 4 [MH0.10]
	Diagnostic: Algebra 3 [MH0.11]
	Diagnostic: Algebra 4 [MH0.12]
	Diagnostic: Algebra 5 [MH0.13]
	Diagnostic: Geometry 3 [MH0.14]
	Diagnostic: Geometry - Circles and Circle Theorems [MH0.15]
	Diagnostic: Statistics 2 [MH0.16]
	Diagnostic: Probability 2 [MH0.17]
	Diagnostic: Geometry - Advanced Trigonometry [MH0.18]
Number	
Simple Arithmetic	Addition [MF1.01]
	Subtraction [MF1.02]
	Addition and Subtraction [MF1.03]
	Times Tables: 2, 5 and 10 [MF1.04]
	Times Tables: 3 and 4 [MF1.05]
	Times Tables: 6 and 7 [MF1.06]
	Times Tables: 8 and 9 [MF1.07]
	Times Tables: 11 and 12 [MF1.08]
	Commutative Law [MF1.09]
	Associative Law [MF1.10]
	Division: 1, 2, 3, 4, 5 and 10 [MF1.11]
	Division: 6, 7, 8, 9, 11 and 12 [MF1.12]
	Division: Mixed [MF1.13]
	Distributive Law [MF1.14]

Understanding Number	Integer Place Value [MF2.01]
	Mathematical Symbols [MF2.02]
	Negative Numbers [MH2.03]
	Symmetrical Subtraction [MF2.04]
	Adding Negatives [MF2.05]
	Subtracting Negatives [MF2.06]
	Negatives and Positives [MH2.07]
	Ordering Integers [MF2.08]
	Ordering Decimals [MF2.09]
	Ordering Negatives [MF2.10]
	Multiplying by Powers of Ten [MF2.11]
	Dividing by Powers of Ten [MF2.12]
	Rounding to the nearest 10, 100 and 1000 [MF2.13]
Four Operations	Column Addition [MF3.01]
	Column Subtraction [MF3.02]
	Addition and Subtraction: Worded Questions [MF3.03]
	Multiplying Negatives [MF3.04]
	Dividing Negatives [MF3.05]
	Multiplying and Dividing with Negatives [MF3.06]
	Column Multiplication [MF3.07]
	Grid Multiplication [MF3.08]
	Multiplication with Napier's Bones [MF3.09]
	Testing for Divisibility [MF3.10]
	Short Division [MF3.11]
	Dividing by Multi-Digit Numbers [MF3.12]
	Multiplication and Division: Worded Questions [MF3.13]
	BIDMAS Introduction [MF3.14]
	BIDMAS Intermediate [MF3.15]
	BIDMAS Advanced [MF3.16]
	Using a Calculator 1: Powers and Roots of a Single Number [MF3.17]
	Using a Calculator 2: Multiple Numbers [MF3.18]
	Long Division [MF3.19]
Working with Fractions	Expressing Fractions [MF4.01]
	Ordering Fractions [MF4.02]
	Equivalent Fractions [MF4.03]
	Simplifying Fractions [MF4.04]
	Shading Fractions [MF4.05]
	Mixed and Improper Fractions [MF4.06]
	Adding Fractions 1: Same Denominator [MF4.07]

Working with Fractions (cont.)	Adding Fractions 2: Convert 1 Denominator [MF4.08]
	Adding Fractions 3: Convert 1 Denominator (Sum >1) [MF4.09]
	Adding Fractions 4: Convert all Denominators [MF4.10]
	Fractions: Subtracting from 1 [MF4.36]
	Subtracting Fractions [MF4.11]
	Adding and Subtracting Fractions [MF4.12]
	Adding Improper Fractions [MF4.13]
	Adding Mixed Numbers [MF4.14]
	Adding Improper Fractions and Mixed Numbers [MF4.15]
	Subtracting Improper Fractions [MF4.16]
	Subtracting Mixed Numbers [MF4.17]
	Subtracting Improper Fractions and Mixed Numbers [MF4.18]
	Adding and Subtracting Improper Fractions [MF4.19]
	Adding and Subtracting Mixed Numbers [MF4.20]
	Adding and Subtracting Improper Fractions and Mixed Numbers [MF4.21]
	Fractions on a Number Line 1: Between 0 and 1 [MF4.37]
	Fractions on a Number Line 2: Beyond 1 [MF4.38]
	Reciprocals [MF4.22]
	Multiplying Fractions 1 [MF4.23]
	Multiplying Fractions 2 [MF4.24]
	Dividing Fractions [MF4.25]
	Multiplying and Dividing Mixed Numbers [MF4.26]
	Multiplying with Whole Numbers and Fractions [MF4.27]
	Dividing with Whole Numbers and Fractions [MF4.28]
	Fraction of Amounts: Modelling [MF4.39]
	Fraction of Amounts: Non-Calculator [MF4.29]
	Fraction of Amounts: Calculator [MF4.30]
	Increasing and Decreasing by Fractions [MF4.31]
	Fraction of Amounts: Modelling Finding the Whole [MF4.40]
	Reverse Fractions [MF4.32]
	Reverse Fractions: Worded Questions [MF4.33]
	Estimating Products of Fractions [MF4.34]
	Dividing Fractions (Bar Model) [MF4.35]
	Applied Fractions [MH4.34]
Factors, Multiples and Primes	Odds and Evens with Addition and Subtraction [MF5.01]
	Odds and Evens with Multiplication [MF5.02]
	Primes [MF5.03]
	Multiples [MF5.04]
	Factors [MF5.05]

Factors, Multiples and Primes (cont.)	Multiples and Factors [MF5.06]
	Lowest Common Multiple - Listing Technique [MF5.07]
	Highest Common Factor - Listing Technique [MF5.08]
	Prime Factorisation 1: Factor Tree Given [MF5.09]
	Prime Factorisation 2 [MF5.10]
	Uses of Prime Factorisation [MF5.11]
	HCF Using Prime Factorisation: Venn Diagrams [MF5.12]
	HCF Using Prime Factorisation: Product of Prime Factors [MF5.13]
	LCM Using Prime Factorisation: Venn Diagrams [MF5.14]
	LCM Using Prime Factorisation: Product of Prime Factors [MF5.15]
	HCF and LCM with Prime Factorisation [MF5.16]
	HCF and LCM of 3 Numbers [MH5.17]
	Solving Problems with HCF and LCM 1 [MH5.18]
	Solving Problems with HCF and LCM 2 [MH5.19]
	Solving Problems with HCF and LCM 3: Reverse [MH5.20]
Working with Decimals	Decimal Place Value [MF6.01]
	Adding Decimals 1: Calculations [MF6.02]
	Adding Decimals 2: Worded Problems [MF6.03]
	Subtracting Decimals 1: Calculations [MF6.04]
	Subtracting Decimals 2: Worded Problems [MF6.05]
	Multiplying Decimals 1 [MF6.06]
	Multiplying Decimals 2 [MF6.07]
	Multiplying Decimals: Worded Questions [MF6.08]
	Dividing Decimals [MF6.09]
	Dividing Decimals by Decimals [MF6.10]
	Dividing by Large Numbers [MF6.11]
	Manipulating Decimal Calculations with Multiplication [MF6.12]
	Manipulating Decimal Calculations with Division [MF6.13]
	Multiplying Decimals with Napier's Bones [MF6.14]
Introduction to Percentages (NC)	Understanding Percentages [MF7.01]
	Finding 50% [MF7.02]
	Finding 25% [MF7.03]
	Finding 10% [MF7.04]
	Finding 5% [MF7.05]
	Finding 1% [MF7.06]
	Finding Multiples of Tens in Percentages [MF7.07]
	Percentages of Amounts: Modelling [MF7.15]
	Finding Percentages of Amounts 1 [MF7.08]
	Finding Percentages of Amounts 2 [MF7.09]

Introduction to Percentages (NC) (cont.)	Finding Percentages of Amounts 3 [MF7.10]
	Comparing Percentages 1: Multiples of 5% [MF7.11]
	Comparing Percentages 2 [MF7.12]
	Finding Decimal Percentages [MF7.13]
	Estimate with Percentages [MF7.14]
Fractions, Decimals and Percentages	Introduction to Fractions, Decimals and Percentages [MF8.01]
	Converting Fractions to Denominator 100 [MF8.02]
	Fractions to Percentage [MF8.03]
	Decimals to Percentage [MF8.04]
	Percentage to Decimals [MF8.05]
	Fractions to Decimals 1: Equivalent Fractions [MF8.06]
	Fractions to Decimals 2: Division [MF8.07]
	Percentage to Fractions [MF8.08]
	Decimals to Fractions [MF8.09]
	Fractions to Decimals (Calculator) [MF8.10]
	Fractions to Percentages (Calculator) [MF8.11]
	Percentage to Fractions (Calculator) [MF8.12]
	Decimals to Fractions (Calculator) [MF8.13]
	Ordering Fractions, Decimals and Percentages 1: Unit Fractions (Non-Calculator) [MF8.14]
	Ordering Fractions, Decimals and Percentages 2: Non-Unit Fractions (Non-Calculator) [MF8.15]
	Ordering Fractions, Decimals and Percentages 3: Numbers Less than 1 (Calculator) [MF8.16]
	Ordering Fractions, Decimals and Percentages 4: Numbers More than 1 (Calculator) [MF8.17]
	Converting Percentage (Less than 1%) [MF8.18]
	Converting Percentage (Greater than 100%) [MF8.19]
Recurring Decimals	**Fractions to Recurring Decimals 1: Special Cases [MH51.01]**
	Fractions to Recurring Decimals 2: Long Division [MH51.02]
	Fractions to Recurring Decimals 3: Long Division (Numbers > 1) [MH51.03]
	Recurring Decimals 1: 1–2 Digits [MH51.04]
	Recurring Decimals 2: 2–4 Digits [MH51.05]
	Recurring Decimals 3: Non-Recurring and Recurring Digits [MH51.06]
	Recurring Decimals 4: Special Cases [MH51.07]
	Recurring Decimals 5: Calculations [MH51.08]
Rounding	Rounding to the Nearest Whole Number [MF9.01]
	Rounding to 1 Decimal Place [MF9.02]
	Rounding to 2 Decimal Places [MF9.03]
	Rounding to Mixed Decimal Places [MF9.04]
	Rounding to 1 Significant Figure [MF9.05]
	Rounding to 2 Significant Figures [MF9.06]

Rounding (cont.)	Rounding to 3 Significant Figures [MF9.07]
	Rounding to Mixed Significant Figures [MF9.08]
	Mixed Rounding [MF9.09]
	Rounding to Appropriate Degrees of Accuracy [MF9.10]
	Introduction to Estimation [MF9.11]
	Estimation [MF9.12]
	Bounds 1: Introduction [MF9.13]
	Bounds 2: Simple Calculation [MF9.14]
	Bounds 3: Intervals [MF9.15]
	Bounds 4: Addition [MH9.16]
	Bounds 5: Subtraction [MH9.17]
	Bounds 6: Multiplication [MH9.18]
	Bounds 7: Division [MH9.19]
	Bounds 8: Mixed Operations [MH9.20]
	Bounds 9: Formulae [MH9.21]
	Bounds 10: Suitable Degrees of Accuracy [MH9.22]
	Bounds 11: Discrete Variables [MH9.23]
	Truncation [MH9.24]
Percentages Non-Calculator	Percentage Increase and Decrease: Modelling [MF10.06]
	Percentage Increase [MF10.01]
	Percentage Decrease [MF10.02]
	Percentage Increase and Decrease [MF10.03]
	Finding Percentages greater than 100 [MF10.04]
	Simple Interest [MF10.05]
Percentages Calculator	Finding Percentages 1: Integer Percentages < 100% (Calculator) [MF11.01]
	Finding Percentages 2: > 100% or Non-Integer Percentages (Calculator) [MF11.02]
	Percentage Increase and Decrease (Calculator) [MF11.03]
	Percentage Change [MF11.04]
	Repeated Percentage Increase and Decrease (Calculator) [MF11.05]
	Simple Interest (Calculator) [MF11.06]
	Compound Interest (Calculator) [MF11.07]
	Depreciation (Calculator) [MF11.08]
	Compound Interest and Depreciation (Calculator) [MF11.09]
	Simple and Compound Interest (Calculator) [MF11.10]
	Reverse Percentages Introduction: Modelling [MF11.18]
	Reverse Percentages: Modelling [MF11.19]
	Reverse Percentage [MF11.11]
	Percentage Error [MF11.12]
	Express One Amount as a Percentage of Another [MF11.13]

Percentages Calculator (cont.)	Percentage Problems [MF11.14]
	Exponential Growth [MH11.14]
	Exponential Decay [MH11.15]
	Exponential Growth and Decay [MH11.16]
Powers and Roots	Squares [MF12.01]
	Cubes [MF12.02]
	Squaring and Cubing Negatives [MF12.03]
	Powers [MF12.04]
	Roots of Squares and Cubes [MF12.05]
	Roots [MF12.06]
	Estimating Powers and Roots [MH12.07]
Surds	**Surds: Introduction [MH52.01]**
	Surds: Multiplication and Division [MH52.02]
	Surds: Simplifying 1 [MH52.03]
	Surds: Simplifying 2 (Products of Surds) [MH52.04]
	Surds: Simplifying 3 (Dividing Surds) [MH52.05]
	Surds: Simplifying 4 (Sum and Difference) [MH52.06]
	Surds: Expanding 1 (Single Bracket) [MH52.07]
	Surds: Expanding 2 (Sum/Difference of Single Brackets) [MH52.08]
	Surds: Expanding 3 (Double Brackets) [MH52.09]
	Surds: Expanding 4 (Double Brackets, Surds with Coefficients) [MH52.10]
	Surds: Expanding 5 (Difference of Two Squares) [MH52.11]
	Surds: Rationalising 1 (Monomial Denominator) [MH52.12]
	Surds: Rationalising 2 (Binomial Denominator) [MH52.13]
	Surds: Rationalising 3 (Sum/Difference with Binomial Denominators) [MH52.14]
	Surds: Rationalising 4 (Sum/Difference with Binomial Denominators) [MH52.15]
	Surds: Rationalising 5 (Surd within Fraction within Denominator) [MH52.16]
Indices	Powers of 0 and 1 [MF13.01]
	Raising a Fraction to a Power [MF13.02]
	Multiplying Indices [MF13.03]
	Dividing Indices [MF13.04]
	Power of a Power [MF13.05]
	Negative Indices [MF13.06]
	Combination of Indices [MF13.07]
	Fractional Indices 1: Square and Cube Root [MH13.08]
	Fractional Indices 2: Non-Unit Fraction [MH13.09]
	Fractional Indices 3: Negative Unit Fractions [MH13.10]
	Fractional Indices 4: Negative Non-Unit Fractions [MH13.11]

Indices (cont.)	**Fractional Indices 5: Fraction Base [MH13.12]**
	Fractional Indices: Calculator [MH13.13]
	Solving Problems with Indices 1: Combination of Rules [MH13.14]
	Solving Problems with Indices 2: Combination of Rules [MH13.15]
	Solving Problems with Indices 3: Working Backwards [MH13.16]
	Solving Problems with Indices 4: Solving Equations [MH13.17]
	Solving Problems with Indices 5: Including Square/Cube Root Form [MH13.18]
	Solving Problems with Indices 6: Challenge [MH13.19]
	Solving Problems with Indices 7: Challenge [MH13.20]
	Exponential Equations 1: Introduction [MH13.21]
	Exponential Equations 2: Quadratics (Changing One Base) [MH13.22]
	Exponential Equations 3: Quadratics (Changing Multiple Bases) [MH13.23]
	Exponential Equations 4: Challenge [MH13.24]
Standard Form	The Positive Powers of 10 [MF14.01]
	The Negative Powers of 10 [MF14.02]
	Standard Form to Ordinary [MF14.03]
	Ordinary to Standard Form [MF14.04]
	Fixing into Standard Form [MF14.05]
	Ordering Standard Form [MF14.06]
	Adding and Subtracting with Standard Form [MF14.07]
	Multiplying with Standard Form [MF14.08]
	Dividing with Standard Form [MF14.09]
	Standard Form: Worded problems with calculator [MF14.10]
Ratio	Introduction to Ratio [MF15.01]
	Simplifying Ratios [MF15.02]
	Converting Ratios into the Form 1:n [MF15.03]
	Converting Ratios into the form n:1 [MF15.04]
	3 Part Ratios [MF15.05]
	Simplifying Ratios with Units [MF15.06]
	Sharing with a Given Ratio: Modelling [MF15.15]
	Ratio Fluency: Modelling [MF15.16]
	Sharing with a Given Ratio 1 [MF15.07]
	Sharing with a Given Ratio 2 (Calculator) [MF15.08]
	Sharing with a Given Ratio 3 (Calculator): Working Backwards [MF15.09]
	Sharing with a Given Ratio 4 (Calculator): 3 Part Ratios [MF15.10]
	Converting Ratios into Fractions [MF15.11]
	Converting Fractions into Ratios [MF15.12]
	Part of a Ratio to the Whole [MF15.13]
	Ratio and Algebra [MF15.14]

Ratio (cont.)	Ratio: Problem Solving [MF15.17]
	Ratio: Two Ratios [MF15.18]
	Ratio: Angles [MF15.19]
	Ratio: Applied [MF15.20]
	Ratio: Applied (Advanced) [MH15.21]
	Ratio: Changing Ratios [MH15.22]
Ratio and Proportion	Introduction to Proportion [MF16.01]
	Recipe Ratio 1: Find Amount of Ingredients [MF16.02]
	Recipe Ratio 2: Find the Number of People [MF16.03]
	Better Value [MF16.04]
	Direct Proportion 1: Conversions [MF16.05]
	Direct Proportion 2: y = kx [MF16.06]
	Inverse Proportion 1: Introduction [MF16.07]
	Inverse Proportion 2: y = k/x [MF16.08]
	Proportions on a Graph [MF16.09]
	Ratio and Rate Problems 1: Testing for Equivalence [MF16.10]
	Direct Proportion 3: $y = kx^a$ and $y = k\sqrt{x}$ [MH16.10]
	Inverse Proportion 3: $y = k/x^a$ and $y = k/\sqrt{x}$ [MH16.11]
	Interpreting Direct and Inverse Proportion 1: $y = kx$ and $y = k/x^a$ [MH16.12]
	Interpreting Direct and Inverse Proportion 2: Problem Solving [MH16.13]
	Proportions on a Graph 2: Linear, Quadratic, Cubic and Root [MH16.14]
	Two Step Direct and Inverse Proportion [MH16.15]
Algebra	
Introduction to Algebra	Forming Algebraic Expressions: One Step [MF17.01]
	Forming Algebraic Expressions: Two Step [MF17.02]
	Algebraic Terminology [MF17.03]
	Collecting Like Terms 1: Add and Subtract [MF17.04]
	Collecting Like Terms 2: Add and Subtract (Including Squared/Cubed Variables) [MF17.05]
	Collecting Like Terms 3: In Context (Perimeter) [MF17.06]
	Simplifying Expressions 1: Multiplication [MF17.07]
	Simplifying Expressions 2: Multiplication (In Context) [MF17.08]
	Simplifying Expressions 3: Division [MF17.09]
	Simplifying Expressions 4: Division [MF17.10]
	Simplifying Expressions 5: Multiplication and Division [MF17.11]
	Simplifying Expressions 6: Index Laws [MH17.17]
	Simplifying Expressions 7: Index Laws [MH17.18]
	Function Machines [MF17.12]
	Substitution into Expressions 1: One Term [MF17.13]

Introduction to Algebra (cont.)	Substitution into Expressions 2: Two Terms [MF17.14]
	Substitution into Expressions 3: Two Terms incl. Squares [MF17.15]
	Substitution into Expressions 4: Calculator [MF17.16]
Expanding and Factorising	Expanding Single Brackets: Introduction [MF18.25]
	Expanding Single Brackets 1: a(x ± b) [MF18.01]
	Expanding Single Brackets 2: ±a(x ± b) [MF18.02]
	Expanding Single Brackets 3: ±a(±bx ± cy) [MF18.03]
	Expanding Single Brackets 4: ±x(±y ± a) [MF18.04]
	Expanding Single Brackets 5: ±ax(±ax^2 ± x ± a) [MF18.05]
	Expanding and Simplifying [MF18.06]
	Factorising into a Single Bracket 1: x ± a or a ± x [MF18.07]
	Factorising into a Single Bracket 2: ax ± bx [MF18.08]
	Factorising into a Single Bracket 3: axy(bx^2 ± cx ± d) [MF18.09]
	Expanding Double Brackets 1: (x ± a)(x ± b) [MF18.10]
	Expanding Double Brackets 2: (ax ± b)(cx ± d) [MF18.11]
	Expanding Double Brackets 3: (x ± a)^2 [MF18.12]
	Expanding Double Brackets 4: a(bx ± c)(dx ± e) [MF18.13]
	Expanding Double Brackets 5: a(bx ± c)^2 [MF18.14]
	Expanding Double Brackets 6: (ax ± b)(cy ± d) [MH18.18]
	Expanding More Brackets [MH18.19]
	Factorising Quadratics 1: (x + a)(x + b) [MF18.15]
	Factorising Quadratics 2: (x ± a)(x ± b) [MF18.16]
	Factorising Quadratics 3: (ax ± b)(x ± c) [MH18.20]
	Factorising Quadratics 4: (ax ± b)(x ± c) [MH18.21]
	Factorising Quadratics 5: (ax ± b)(x ± c) [MH18.22]
	Factorising Quadratics 6: (ax ± b)(cx ± d) [MH18.23]
	Factorising Quadratics 7: (ax ± b)(cx ± d) [MH18.24]
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	Similar Polygons: Missing Sides [MF43.04]
	Similar Triangles 1: Same Orientation [MF43.05]
	Similar Triangles 2: Different Orientations [MF43.06]
	Similar Area 1 [MH43.07]
	Similar Area 2: Including Ratio [MH43.08]
	Similar Volume [MH43.09]
	Similar Area and Volume [MH43.10]
Pythagoras	Pythagoras' Theorem [MF44.01]
	Pythagoras: Finding the Hypotenuse [MF44.02]
	Pythagoras: Finding a Short Side [MF44.03]
	Pythagoras: Mixed Sides [MF44.04]
	Pythagoras: Using Coordinates [MF44.05]
	Pythagoras: Worded Questions [MF44.06]
	Pythagoras: Applied Questions [MF44.07]
Right-Angled Trigonometry	Introduction to SOHCAHTOA [MF45.01]
	Trigonometry: Using a Calculator [MF45.02]
	Trigonometry: Missing Side 1 (Variable is Numerator) [MF45.03]
	Trigonometry: Missing Side 2 (Variable is Denominator) [MF45.04]
	Trigonometry: Missing Angle [MF45.05]
	Trigonometry: Worded Questions [MF45.06]
	Exact Trigonometric Values [MF45.07]
	Trigonometry and Pythagoras [MF45.08]
Advanced Trigonometry	**Area using 1/2(ab)sin(C): Proof [MH58.01]**
	1/2(ab)sin(C): Finding the area [MH58.02]
	1/2(ab)sin(C): Area with Missing Value [MH58.03]
	1/2(ab)sin(C): Applied [MH58.04]
	Sine Rule: Proof [MH58.05]
	Sine Rule: Sides [MH58.06]
	Sine Rule: Angles [MH58.07]
	Sine Rule: Applied [MH58.08]
	Cosine Rule: Proof [MH58.09]
	Cosine Rule: Finding a [MH58.10]
	Cosine Rule: Finding A [MH58.11]
	Cosine Rule: Applied [MH58.12]
	Choosing the Correct Trigonometric Rule [MH58.13]
	Mixed Trigonometry 1 [MH58.14]

Advanced Trigonometry (cont.)	**Mixed Trigonometry 2: Multi-Step Problems [MH58.15]**
	Mixed Trigonometry 3: Multi-Step Problems [MH58.16]
	Mixed Trigonometry 4: Non-Calculator [MH58.17]
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3D Trigonometry	**3D Pythagoras 1: Cuboids [MH59.01]**
	3D Pythagoras 2: Pyramids and Cylinders [MH59.02]
	3D SOH CAH TOA [MH59.03]
	3D Trigonometry [MH59.04]
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Probability	
Probability	Probability Scale in Words [MF46.01]
	Probability Scale in Numbers [MF46.02]
	Calculating Probability [MF46.03]
	Mutually Exclusive Events [MF46.04]
	Two Way Tables: Probability [MF46.05]
	Listing Outcomes [MF46.06]
	Product Rule for Counting [MH46.18]
	Sample Spaces [MF46.07]
	Relative Frequency [MF46.08]
	Expected Frequency [MF46.09]
	Frequency Trees [MF46.10]
	Interpreting Frequency Trees [MF46.11]
	Multiplication Law of Probability (AND) [MF46.12]
	Addition Law of Probability (OR) [MF46.13]
	Addition Law of Probability (General OR) [MH46.19]
	Tree Diagrams 1: Completing Diagrams [MF46.14]
	Tree Diagrams 2: Calculating Probability of Single Outcome [MF46.15]
	Tree Diagrams 3: Calculating Probability of Multiple Outcomes [MF46.16]
	Tree Diagrams 4: AND/OR Statements (2 Branch Trees) [MF46.17]
	Tree Diagrams 5: AND/OR Statements (3 Branch Trees) [MH46.20]
	Tree Diagrams 6: AND/OR Statements (No Tree Given) [MH46.21]
	Tree Diagrams 7: NOT Statements [MH46.22]
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	Tree Diagrams 9: Conditional Probability (Single Outcome) [MH46.24]
	Tree Diagrams 10: Conditional Probability (Multiple Outcomes) [MH46.25]
	Tree Diagrams 11: Conditional Probability (Problem Solving) [MH46.26]
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Sets and Venn Diagrams (cont.)	Set Notation [MF47.01]
	Elements in a Set 1: Identifying Elements [MF47.02]
	Elements in a Set 2: Unions and Intersections [MF47.03]
	Elements in a Set 3: Complements [MF47.04]
	Introduction to Venn Diagrams [MF47.05]
	Constructing Venn Diagrams 1: Listing Elements [MF47.06]
	Constructing Venn Diagrams 2: Writing Values [MF47.07]
	Constructing Venn Diagrams 3: 3-Set Diagrams [MH47.12]
	Interpreting Venn Diagrams 1: 2-Set Diagrams [MF47.09]
	Interpreting Venn Diagrams 2: 3-Set Diagrams (From Set Notation) [MH47.13]
	Venn Diagrams: Complements [MH47.14]
	Venn Diagrams with Algebra [MH47.15]
	Probabilities with Venn Diagrams 1: 2-Set Diagrams [MF47.10]
	Probabilities with Venn Diagrams 2: 2-Set Diagrams (A given B) [MF47.11]
	Probabilities with Venn Diagrams 3: 3-Set Diagrams (From Set Notation) [MH47.16]
	Probabilities with Venn Diagrams 4: 3-Set Diagrams (Constructing) [MH47.17]
	Probabilities with Venn Diagrams 5: 3-Set Diagrams (A given B) [MH47.18]
	Shading Venn Diagrams 1: 2-Set Diagrams (From Words) [MF47.08]
	Shading Venn Diagrams 2: 2-Set Diagrams (From Set Notation) [MH47.19]
	Shading Venn Diagrams 3: 3-Set Diagrams (From Set Notation) [MH47.20]
Statistics	
Collecting Data	Hypotheses, Primary Data and Secondary Data [MF48.01]
	Discrete and Continuous Data [MF48.02]
	Tally Chart [MF48.03]
	Questionnaires [MF48.04]
	Types of Random Sampling [MF48.05]
	Fair Samples [MF48.06]
	Grouped Tally Charts: Discrete and Continuous [MF48.07]
Analysing Data	Mode [MF49.01]
	Median [MF49.02]
	Mean 1: Positive Integers [MF49.03]
	Mean 2: Decimals and Negatives [MF49.04]
	Mean 3: Finding Missing Values [MF49.05]
	Mean 4: Changing Means [MF49.06]
	Range 1: Positive Integers [MF49.07]
	Range 2: Decimals and Negatives [MF49.08]
	Applying Averages and the Range 1: Raw Data [MF49.09]
	Mode from Frequency Table [MF49.10]
	Median from Frequency Table [MF49.11]

Analysing Data	Mean from Frequency Table [MF49.12]
	Range from Frequency Table [MF49.13]
	Modal Class from Grouped Frequency Table [MF49.14]
	Median from Grouped Frequency Table [MF49.15]
	Mean from Grouped Frequency Table 1: Discrete and Continuous Data [MF49.16]
	Mean from Grouped Frequency Table 2: Continuous Data [MF49.17]
	Range from Grouped Frequency Table [MF49.18]
	Applying Averages and the Range 2: Tables [MF49.19]
	Using Averages and Range [MF49.20]
	Using Averages and Range: Comparing Two Data Sets [MF49.21]
Displaying Data	Completing Two Way Tables [MF50.01]
	Interpreting Two Way Tables [MF50.02]
	Pictograms [MF50.03]
	Bar Charts [MF50.04]
	Multiple and Composite Bar Charts [MF50.05]
	Vertical Line Graphs [MF50.06]
	Creating Stem and Leaf Diagrams [MF50.07]
	Interpreting Stem and Leaf Diagrams [MF50.08]
	Creating Pie Charts (No Calculator) [MF50.09]
	Creating Pie Charts (Calculator) [MF50.10]
	Interpreting Pie Charts [MF50.11]
	Time Series Graphs [MF50.12]
	Drawing Scatter Graphs [MF50.13]
	Interpreting Scatter Graphs 1: Introduction [MF50.14]
	Interpreting Scatter Graphs 2: Outliers [MF50.15]
	Frequency Polygons: Drawing [MF50.16]
	Frequency Polygons: Interpreting [MF50.17]
	Interpreting Misleading Data Representations [MF50.18]
Cumulative Frequency and Box Plots	**Cumulative Frequency 1: Calculating [MH60.01]**
	Cumulative Frequency 2: Drawing [MH60.02]
	Cumulative Frequency 3: Calculating Frequency [MH60.03]
	Cumulative Frequency 4: Finding Values [MH60.04]
	Cumulative Frequency 5: Median [MH60.05]
	Cumulative Frequency 6: Quartiles [MH60.06]
	Cumulative Frequency 7: Interquartile Range [MH60.07]
	Cumulative Frequency 8: Plot and Evaluate [MH60.08]
	Box Plots 1: Interpret [MH60.09]
	Box Plots 2: Finding Values to Plot [MH60.10]
	Box Plots 3: Draw from List [MH60.11]

Cumulative Frequency and Box Plots (cont.)	**Box Plots 4: Draw from Data [MH60.12]**
	Box Plots 5: Evaluate and Compare [MH60.13]
	Cumulative Frequency and Box Plots [MH60.14]
Histograms	**Frequency Density 1: Calculating [MH61.01]**
	Frequency Density 2: Problem Solving [MH61.02]
	Histograms 1: Choosing Axes [MH61.03]
	Histograms 2: Plotting [MH61.04]
	Histograms 3: Calculating Frequency [MH61.05]
	Histograms 4: Calculating Frequency within a Given Range [MH61.06]
	Histograms 5: Mixed Exercise (Consolidates 1-4) [MH61.07]
	Histograms 6: Finding Fractions and Percentages [MH61.08]
	Histograms 7: Finding Proportions [MH61.09]
	Histograms 8: Median [MH61.10]
	Histograms 9: Mean [MH61.11]
	Histograms 10: Mixed Exercise (Consolidates 6-9) [MH61.12]

Nuggets included in Mathematics Secondary (F+)

Foundation+ contains the same material as Foundation, in addition to the following nuggets from primary mathematics.

Strand	Nugget Names
Diagnostics Catch Up	Diagnostic: Essential Four Operations [MCU0.01]
	Diagnostic: Catch Up [MCU0.02]
	Diagnostic: Secondary Ready [MCU0.03]
Number	
Place Value Catch Up	Counting in Multiples of 2 [PM10.01]
	Counting in Multiples of 3 [PM10.02]
	Counting in Multiples of 4 [PM1.01]
	Counting in Multiples of 5 [PM10.03]
	Counting in Multiples of 8 [PM1.02]
	Counting in Multiples of 10 [PM10.04]
	Counting in Multiples of 50 [PM1.03]
	Counting in Multiples of 100 [PM1.04]
	Recognising Place Value [PM1.05]
	3-Digit: Representing Numbers up to 1000 [PM1.06]
	3-Digit: Finding 10 More or 10 Less [PM1.07]
	Finding 100 More or 100 Less [PM1.08]
Simple Arithmetic	Single Digit Addition [PM10.11]
	2 Digit Addition [PM10.12]
	Single Digit Subtraction [PM10.13]
	2 Digit Subtraction [PM10.14]
	3-Digit: Adding and Subtracting 1s [PM2.01]
	3-Digit: Adding and Subtracting 10s [PM2.02]
	3-Digit: Adding and Subtracting 100s [PM2.03]
	3-Digit: Column Addition (no Exchanging) [PM2.04]
	3-Digit: Column Addition (with Exchanging) [PM2.05]
	3-Digit: Column Subtraction (no Exchanging) [PM2.06]
	3-Digit: Column Subtraction (with Exchanging) [PM2.07]
	3-Digit: Addition and Subtraction Practice 1 [PM2.08]
	3-Digit: Addition and Subtraction Word Problems 1 [PM2.09]
Multiplication and Division	Multiplying by 2 [PM10.05]
	Multiplying by 3 [PM3.01]
	Multiplying by 4 [PM3.02]

Multiplication and Division (cont.)	Multiplying by 5 [PM10.06]
	Multiplying by 6 [PM3.17]
	Multiplying by 7 [PM3.18]
	Multiplying by 8 [PM3.03]
	Multiplying by 9 [PM3.19]
	Multiplying by 10 [PM10.07]
	Multiplying Multiples of 10 [PM3.09]
	Multiplying by 11 [PM3.20]
	Multiplying by 12 [PM3.21]
	Mixed Multiplication (Within the Times Tables) [PM3.22]
	Dividing by 2 [PM10.08]
	Dividing by 3 [PM3.05]
	Dividing by 4 [PM3.06]
	Dividing by 5 [PM10.09]
	Dividing by 6 [PM3.23]
	Dividing by 7 [PM3.24]
	Dividing by 8 [PM3.07]
	Dividing by 9 [PM3.25]
	Dividing by 10 [PM10.10]
	Dividing by 11 [PM3.26]
	Dividing by 12 [PM3.27]
	Mixed Division (Within the Times Tables) [PM3.28]
	Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]
Understanding Number	Comparing Numbers with Greater Than and Less Than Symbols <> [PM1.09]
	Ordering Numbers Up to 1000 [PM1.10]
	Recognising Place Value in Decimals [PM1.21]
	Reading and Writing Numbers up to 1000 [PM1.11]
Working with Fractions	Identifying Fractions [PM4.01]
	Recognising a Half and a Quarter [MB1.21]
	Finding Unit Fractions of Amounts [PM4.06]
	Comparing and Ordering Fractions [PM4.03]
Geometry and Measure	
Introduction to Geometry	Identifying Lines [PM8.06]
	Lines of Symmetry [PM8.07]
	Identifying Angles [PM8.05]
2D Shapes	Identifying 2D Shapes [MA2.06]
	Describing 2D Shapes [PM8.01]
3D Shapes	Describing 3D Shapes [PM8.02]

Measure	Units of Measure [PM5.01]
	Length [PM5.02]
	Solving Length Problems [PM5.03]
	Mass and Weight [PM5.04]
	Solving Mass Problems [PM5.05]
	Volume and Capacity [PM5.06]
	Solving Volume and Capacity Problems [PM5.07]
	Perimeter by Counting [PM5.08]
	Calculating the Perimeter [PM5.09]
Time and Money	Units of Time [PM7.01]
	Times of Day [PM7.02]
	Telling the Time in Words [PM7.03]
	Telling the Time to the Nearest 5 Minutes [PM7.04]
	Money 2: Exam-Style Questions [MC2.05]
	Money 3: Coins and Notes Problems [MB2.01]
Data	
Displaying Data	Pictograms [PM9.01]
	Tables [PM9.02]
	Bar Charts [PM9.03]

CENTURY

Nuggets included in Mathematics Secondary (F+)

Strand	Nugget Names
Diagnostics Catch Up	Diagnostic: Essential Four Operations [MCU0.01]
	Diagnostic: Catch Up [MCU0.02]
	Diagnostic: Secondary Ready [MCU0.03]
Diagnostics	Diagnostic: Number 1 [MF0.01]
	Diagnostic: Algebra 1 [MF0.02]
	Diagnostic: Geometry 1 [MF0.03]
	Diagnostic: Number 2 [MF0.04]
	Diagnostic: Probability 1 [MF0.05]
	Diagnostic: Statistics 1 [MF0.06]
	Diagnostic: Algebra 2 [MF0.07]
	Diagnostic: Geometry 2 [MF0.08]
Number	
Place Value Catch Up	Counting in Multiples of 2 [PM10.01]
	Counting in Multiples of 3 [PM10.02]
	Counting in Multiples of 4 [PM1.01]
	Counting in Multiples of 5 [PM10.03]
	Counting in Multiples of 8 [PM1.02]
	Counting in Multiples of 10 [PM10.04]
	Counting in Multiples of 50 [PM1.03]
	Counting in Multiples of 100 [PM1.04]
	3-Digit: Recognising Place Value [PM1.05]
	3-Digit: Representing Numbers up to 1000 [PM1.06]
	3-Digit: Finding 10 More or 10 Less [PM1.07]
	Finding 100 More or 100 Less [PM1.08]
Simple Arithmetic	Addition [MF1.01]
	Single Digit Addition [PM10.11]
	Subtraction [MF1.02]

Simple Arithmetic (cont.)	Addition and Subtraction [MF1.03]
	2 Digit Addition [PM10.12]
	Single Digit Subtraction [PM10.13]
	2 Digit Subtraction [PM10.14]
	3-Digit: Adding and Subtracting 1s [PM2.01]
	3-Digit: Adding and Subtracting 10s [PM2.02]
	3-Digit: Adding and Subtracting 100s [PM2.03]
	3-Digit: Column Addition (no Exchanging) [PM2.04]
	3-Digit: Column Addition (with Exchanging) [PM2.05]
	3-Digit: Column Subtraction (no Exchanging) [PM2.06]
	3-Digit: Column Subtraction (with Exchanging) [PM2.07]
	3-Digit: Addition and Subtraction Practice 1 [PM2.08]
	3-Digit: Addition and Subtraction Word Problems 1 [PM2.09]
Multiplication and Division	Multiplying by 2 [PM10.05]
	Multiplying by 3 [PM3.01]
	Multiplying by 4 [PM3.02]
	Multiplying by 5 [PM10.06]
	Multiplying by 6 [PM3.17]
	Multiplying by 7 [PM3.18]
	Multiplying by 8 [PM3.03]
	Multiplying by 9 [PM3.19]
	Multiplying by 10 [PM10.07]
	Multiplying Multiples of 10 [PM3.09]
	Multiplying by 11 [PM3.20]
	Multiplying by 12 [PM3.21]
	Times Tables: 2, 5 and 10 [MF1.04]
	Times Tables: 3 and 4 [MF1.05]
	Times Tables: 6 and 7 [MF1.06]
	Times Tables: 8 and 9 [MF1.07]
	Times Tables: 11 and 12 [MF1.08]
	Mixed Multiplication (Within the Times Tables) [PM3.22]

Multiplication and Division (cont.)	Dividing by 2 [PM10.08]
	Dividing by 3 [PM3.05]
	Dividing by 4 [PM3.06]
	Dividing by 5 [PM10.09]
	Dividing by 6 [PM3.23]
	Dividing by 7 [PM3.24]
	Dividing by 8 [PM3.07]
	Dividing by 9 [PM3.25]
	Dividing by 10 [PM10.10]
	Dividing by 11 [PM3.26]
	Dividing by 12 [PM3.27]
	Mixed Division (Within the Times Tables) [PM3.28]
	Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]
	Division: 1, 2, 3, 4, 5 and 10 [MF1.11]
	Division: 6, 7, 8, 9, 11 and 12 [MF1.12]
	Division: Mixed [MF1.13]
	Distributive Law [MF1.14]
	Commutative Law [MF1.09]
	Associative Law [MF1.10]
Understanding Number	Comparing Numbers with Greater Than and Less Than Symbols <> [PM1.09]
	Integer Place Value [MF2.01]
	Mathematical Symbols [MF2.02]
	Negative Numbers [MF2.03]
	Symmetrical Subtraction [MF2.04]
	Adding Negatives [MF2.05]
	Subtracting Negatives [MF2.06]
	Negatives and Positives [MF2.07]
	Ordering Integers [MF2.08]
	Ordering Numbers up to 1000 [PM1.10]
	2dp: Recognising Place Value in Decimals [PM1.21]
	Ordering Decimals [MF2.09]

Understanding Number (cont.)	Ordering Negatives [MF2.10]
	Multiplying by Powers of Ten [MF2.11]
	Dividing by Powers of Ten [MF2.12]
	Rounding to the nearest 10, 100 and 1000 [MF2.13]
	Reading and Writing Numbers up to 1000 [PM1.11]
Four Operations	Column Addition [MF3.01]
	Column Subtraction [MF3.02]
	Addition and Subtraction: Worded Questions [MF3.03]
	Multiplying Negatives [MF3.04]
	Dividing Negatives [MF3.05]
	Multiplying and Dividing with Negatives [MF3.06]
	Column Multiplication [MF3.07]
	Grid Multiplication [MF3.08]
	Multiplication with Napier's Bones [MF3.09]
	Testing for Divisibility [MF3.10]
	Short Division [MF3.11]
	Long Division [MF3.19]
	Dividing by Multi-Digit Numbers [MF3.12]
	Multiplication and Division: Worded Questions [MF3.13]
	BIDMAS Introduction [MF3.14]
	BIDMAS Intermediate [MF3.15]
	BIDMAS Advanced [MF3.16]
	Using a Calculator 1: Powers and Roots of a Single Number [MF3.17]
	Using a Calculator 2: Multiple Numbers [MF3.18]
Working with Fractions	Identifying Fractions [PM4.01]
	Recognising a Half and a Quarter [MB1.21]
	Expressing Fractions [MF4.01]
	Ordering Fractions [MF4.02]
	Equivalent Fractions [MF4.03]
	Simplifying Fractions [MF4.04]
	Shading Fractions [MF4.05]

Working with Fractions (cont.)	Mixed and Improper Fractions [MF4.06]
	Adding Fractions 1: Same Denominator [MF4.07]
	Adding Fractions 2: Convert 1 Denominator [MF4.08]
	Adding Fractions 3: Convert 1 Denominator (Sum >1) [MF4.09]
	Adding Fractions 4: Convert all Denominators [MF4.10]
	Fractions: Subtracting from 1 [MF4.36]
	Subtracting Fractions [MF4.11]
	Adding and Subtracting Fractions [MF4.12]
	Adding Improper Fractions [MF4.13]
	Adding Mixed Numbers [MF4.14]
	Adding Improper Fractions and Mixed Numbers [MF4.15]
	Subtracting Improper Fractions [MF4.16]
	Subtracting Mixed Numbers [MF4.17]
	Subtracting Improper Fractions and Mixed Numbers [MF4.18]
	Adding and Subtracting Improper Fractions [MF4.19]
	Adding and Subtracting Mixed Numbers [MF4.20]
	Adding and Subtracting Improper Fractions and Mixed Numbers [MF4.21]
	Fractions on a Number Line 1: Between 0 and 1 [MF4.37]
	Fractions on a Number Line 2: Beyond 1 [MF4.38]
	Reciprocals [MF4.22]
	Multiplying Fractions 1 [MF4.23]
	Multiplying Fractions 2 [MF4.24]
	Dividing Fractions [MF4.25]
	Multiplying and Dividing Mixed Numbers [MF4.26]
	Multiplying with Whole Numbers and Fractions [MF4.27]
	Dividing with Whole Numbers and Fractions [MF4.28]
	Finding Unit Fractions of Amounts [PM4.06]
	Fraction of Amounts: Modelling [MF4.39]
	Fraction of Amounts: Non-Calculator [MF4.29]
	Fraction of Amounts: Calculator [MF4.30]
	Increasing and Decreasing by Fractions [MF4.31]

Working with Fractions (cont.)	Fraction of Amounts: Modelling Finding the Whole [MF4.40]
	Reverse Fractions [MF4.32]
	Reverse Fractions: Worded Questions [MF4.33]
	Estimating Products of Fractions [MF4.34]
	Dividing Fractions (Bar Model) [MF4.35]
	Comparing and Ordering Fractions [PM4.03]
Factors, Multiples and Primes	Odds and Evens with Addition and Subtraction [MF5.01]
	Odds and Evens with Multiplication [MF5.02]
	Primes [MF5.03]
	Multiples [MF5.04]
	Factors [MF5.05]
	Multiples and Factors [MF5.06]
	Lowest Common Multiple - Listing Technique [MF5.07]
	Highest Common Factor - Listing Technique [MF5.08]
	Prime Factorisation 1: Factor Tree Given [MF5.09]
	Prime Factorisation 2 [MF5.10]
	Uses of Prime Factorisation [MF5.11]
	HCF Using Prime Factorisation: Venn Diagrams [MF5.12]
	HCF Using Prime Factorisation: Product of Prime Factors [MF5.13]
	LCM Using Prime Factorisation: Venn Diagrams [MF5.14]
	LCM Using Prime Factorisation: Product of Prime Factors [MF5.15]
	HCF and LCM with Prime Factorisation [MF5.16]
Working with Decimals	Decimal Place Value [MF6.01]
	Adding Decimals 1: Calculations [MF6.02]
	Adding Decimals 2: Worded Problems [MF6.03]
	Subtracting Decimals 1: Calculations [MF6.04]
	Subtracting Decimals 2: Worded Problems [MF6.05]
	Multiplying Decimals 1 [MF6.06]
	Multiplying Decimals 2 [MF6.07]
	Multiplying Decimals: Worded Questions [MF6.08]
	Dividing Decimals [MF6.09]

Working with Decimals (cont.)	Dividing Decimals by Decimals [MF6.10]
	Dividing by Large Numbers [MF6.11]
	Manipulating Decimal Calculations with Multiplication [MF6.12]
	Manipulating Decimal Calculations with Division [MF6.13]
	Multiplying Decimals with Napier's Bones [MF6.14]
Introduction to Percentages (NC)	Understanding Percentages [MF7.01]
	Finding 50% [MF7.02]
	Finding 25% [MF7.03]
	Finding 10% [MF7.04]
	Finding 5% [MF7.05]
	Finding 1% [MF7.06]
	Finding Multiples of Tens in Percentages [MF7.07]
	Percentages of Amounts: Modelling [MF7.15]
	Finding Percentages of Amounts 1 [MF7.08]
	Finding Percentages of Amounts 2 [MF7.09]
	Finding Percentages of Amounts 3 [MF7.10]
	Comparing Percentages 1: Multiples of 5% [MF7.11]
	Comparing Percentages 2 [MF7.12]
	Finding Decimal Percentages [MF7.13]
	Estimate with Percentages [MF7.14]
Fractions, Decimals and Percentages	Introduction to Fractions, Decimals and Percentages [MF8.01]
	Converting Fractions to Denominator 100 [MF8.02]
	Fractions to Percentage [MF8.03]
	Decimals to Percentage [MF8.04]
	Percentage to Decimals [MF8.05]
	Fractions to Decimals 1: Equivalent Fractions [MF8.06]
	Fractions to Decimals 2: Division [MF8.07]
	Percentage to Fractions [MF8.08]
	Decimals to Fractions [MF8.09]
	Fractions to Decimals (Calculator) [MF8.10]
	Fractions to Percentages (Calculator) [MF8.11]

Fractions, Decimals and Percentages (cont.)	Percentage to Fractions (Calculator) [MF8.12]
	Decimals to Fractions (Calculator) [MF8.13]
	Ordering Fractions, Decimals and Percentages 1: Unit Fractions (Non-Calculator) [MF8.14]
	Ordering Fractions, Decimals and Percentages 2: Non-Unit Fractions (Non-Calculator) [MF8.15]
	Ordering Fractions, Decimals and Percentages 3: Numbers Less than 1 (Calculator) [MF8.16]
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Nuggets in **bold** are present in the Extended course only

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	Interpreting Two Way Tables [MF50.02]
	Pictograms [MF50.03]
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	Multiple and Composite Bar Charts [MF50.05]
	Vertical Line Graphs [MF50.06]
	Creating Stem and Leaf Diagrams [MF50.07]
	Interpreting Stem and Leaf Diagrams [MF50.08]
	Creating Pie Charts (No Calculator) [MF50.09]
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	Interpreting Pie Charts [MF50.11]
	Time Series Graphs [MF50.12]
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	Cumulative Frequency 2: Drawing [MH60.02]
	Cumulative Frequency 3: Calculating Frequency [MH60.03]
	Cumulative Frequency 4: Finding Values [MH60.04]
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	Cumulative Frequency 6: Quartiles [MH60.06]
	Cumulative Frequency 7: Interquartile Range [MH60.07]
	Cumulative Frequency 8: Plot and Evaluate [MH60.08]
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	Box Plots 1: Interpret [MH60.09]
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Histograms	**Frequency Density 1: Calculating [MH61.01]**
	Frequency Density 2: Problem Solving [MH61.02]
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	Histograms 3: Calculating Frequency [MH61.05]
	Histograms 4: Calculating Frequency within a Given Range [MH61.06]

Histograms (cont.)	**Histograms 5: Mixed Exercise (Consolidates 1-4) [MH61.07]**
	Histograms 6: Finding Fractions and Percentages [MH61.08]
	Histograms 7: Finding Proportions [MH61.09]
	Histograms 8: Median [MH61.10]
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	Histograms 10: Mixed Exercise (Consolidates 6-9) [MH61.12]

CENTURY

Nuggets included in Mathematics – Bridge to A-Level

Diagnostics contain mixed topics increasing in difficulty. The exception to this is Diagnostic 5 which contains only physics topics.

Strand	Nugget Names
Diagnostics	Diagnostic 1: Essentials [BR0.01]
	Diagnostic 2: Essentials [BR0.02]
	Diagnostic 3 [BR0.03]
	Diagnostic 4 [BR0.04]
	Diagnostic 5: Physics for Mechanics [BR0.05]
	Diagnostic 6 [BR0.06]
	Diagnostic 7 [BR0.07]
	Diagnostic 8 [BR0.08]
	Diagnostic 9 [BR0.09]
	Diagnostic 10 [BR0.10]
Rounding	Bounds 3: Intervals [MF9.15]
Percentages Calculator	Compound Interest (Calculator) [MF11.07]
	Depreciation (Calculator) [MF11.08]
	Compound Interest and Depreciation (Calculator) [MF11.09]
	Exponential Growth [MH11.14]
	Exponential Decay [MH11.15]
	Exponential Growth and Decay [MH11.16]
Powers and Roots	Squares [MF12.01]
	Cubes [MF12.02]
	Squaring and Cubing Negatives [MF12.03]
	Powers [MF12.04]
	Roots of Squares and Cubes [MF12.05]
	Roots [MF12.06]
Surds	Surds: Introduction [MH52.01]
	Surds: Multiplication and Division [MH52.02]
	Surds: Simplifying 1 [MH52.03]
	Surds: Simplifying 2 (Products of Surds) [MH52.04]
	Surds: Simplifying 3 (Dividing Surds) [MH52.05]
	Surds: Simplifying 4 (Sum and Difference) [MH52.06]
	Surds: Expanding 1 (Single Bracket) [MH52.07]
	Surds: Expanding 2 (Sum/Difference of Single Brackets) [MH52.08]
	Surds: Expanding 3 (Double Brackets) [MH52.09]
	Surds: Expanding 4 (Double Brackets, Surds with Coefficients) [MH52.10]
	Surds: Expanding 5 (Difference of Two Squares) [MH52.11]

Surds (cont.)	Surds: Rationalising 1 (Monomial Denominator) [MH52.12]
	Surds: Rationalising 2 (Binomial Denominator) [MH52.13]
	Surds: Rationalising 3 (Sum/Difference with Binomial Denominators) [MH52.14]
	Surds: Rationalising 4 (Sum/Difference with Binomial Denominators) [MH52.15]
	Surds: Rationalising 5 (Surd within Fraction within Denominator) [MH52.16]
Indices	Powers of 0 and 1 [MF13.01]
	Raising a Fraction to a Power [MF13.02]
	Multiplying Indices [MF13.03]
	Dividing Indices [MF13.04]
	Power of a Power [MF13.05]
	Negative Indices [MF13.06]
	Combination of Indices [MF13.07]
	Fractional Indices 1: Square and Cube Root [MH13.08]
	Fractional Indices 2: Non-Unit Fraction [MH13.09]
	Fractional Indices 3: Negative Unit Fractions [MH13.10]
	Fractional Indices 4: Negative Non-Unit Fractions [MH13.11]
	Fractional Indices 5: Fraction Base [MH13.12]
	Solving Problems with Indices 1: Combination of Rules [MH13.14]
	Solving Problems with Indices 2: Combination of Rules [MH13.15]
	Solving Problems with Indices 3: Working Backwards [MH13.16]
	Solving Problems with Indices 4: Solving Equations [MH13.17]
	Solving Problems with Indices 5: Including Square/Cube Root Form [MH13.18]
	Solving Problems with Indices 6: Challenge [MH13.19]
	Solving Problems with Indices 7: Challenge [MH13.20]
	Exponential Equations 1: Introduction [MH13.21]
	Exponential Equations 2: Quadratics (Changing One Base) [MH13.22]
	Exponential Equations 3: Quadratics (Changing Multiple Bases) [MH13.23]
	Exponential Equations 4: Challenge [MH13.24]
Introduction to Algebra	Simplifying Expressions 1: Multiplication [MF17.07]
	Simplifying Expressions 2: Multiplication (In Context) [MF17.08]
	Simplifying Expressions 3: Division [MF17.09]
	Simplifying Expressions 4: Division [MF17.10]
	Simplifying Expressions 5: Multiplication and Division [MF17.11]
	Simplifying Expressions 6: Index Laws [MH17.17]
	Simplifying Expressions 7: Index Laws [MH17.18]
Expanding and Factorising	Expanding Single Brackets 5: $\pm ax(\pm ax^2 \pm x \pm a)$ [MF18.05]
	Expanding and Simplifying [MF18.06]
	Expanding Double Brackets 1: $(x \pm a)(x \pm b)$ [MF18.10]
	Expanding Double Brackets 2: $(ax \pm b)(cx \pm d)$ [MF18.11]

Expanding and Factorising (cont.)	Expanding Double Brackets 3: $(x \pm a)^2$ [MF18.12]
	Expanding Double Brackets 4: $a(bx \pm c)(dx \pm e)$ [MF18.13]
	Expanding Double Brackets 5: $a(bx \pm c)^2$ [MF18.14]
	Expanding Double Brackets 6: $(ax \pm b)(cy \pm d)$ [MH18.18]
	Expanding More Brackets [MH18.19]
	Factorising Quadratics 1: $(x + a)(x + b)$ [MF18.15]
	Factorising Quadratics 2: $(x \pm a)(x \pm b)$ [MF18.16]
	Factorising Quadratics 3: $(ax \pm b)(x \pm c)$ [MH18.20]
	Factorising Quadratics 4: $(ax \pm b)(x \pm c)$ [MH18.21]
	Factorising Quadratics 5: $(ax \pm b)(x \pm c)$ [MH18.22]
	Factorising Quadratics 6: $(ax \pm b)(cx \pm d)$ [MH18.23]
	Factorising Quadratics 7: $(ax \pm b)(cx \pm d)$ [MH18.24]
	The Difference of Two Squares [MF18.17]
Solving Linear Equations	Solving Equations: Three Steps (Unknown on One Side) [MF19.13]
	Solving Equations: Three Steps (Including Brackets) [MF19.14]
	Solving Equations: Three Steps (Unknown on Both Sides) [MF19.15]
	Solving Equations: Four Steps (Including Expanding) [MF19.16]
	Solving Equations: Four Steps (Including Fractions) [MF19.17]
	Simultaneous Equations: Introduction [MF19.20]
	Simultaneous Equations 1 [MF19.21]
	Simultaneous Equations 2: Scale One Equation [MF19.22]
	Simultaneous Equations 3: Scale Both Equations [MF19.23]
	Simultaneous Equations 4: Rearranging [MF19.24]
	Simultaneous Equations: Substitution [MF19.25]
	Iteration 1: Find Solution Between [MH19.27]
	Iteration 2: Rearrange Iterative Formula [MH19.28]
	Iteration 3: Recursive Iteration [MH19.29]
Solving Quadratic Equations	Solving Quadratics: $x^2 + b = 0$ [MF20.01]
	Solving Quadratics: $ax^2 + bx = 0$ [MF20.02]
	Solving Quadratics 1: $x^2 + bx + c = 0$ [MF20.03]
	Solving Quadratics 2: $x^2 + bx + c = 0$ (incl. Rearranging) [MF20.04]
	The Discriminant [MH20.05]
	Quadratic Formula 1: Identify A, B and C [MH20.06]
	Quadratic Formula 2: Applying the Formula [MH20.07]
	Quadratic Formula 3: Applying the Formula [MH20.08]
	Quadratic Formula 4: Give Answer in Form $(p \pm \sqrt{q})/r$ [MH20.09]
	Quadratic Formula 5: In Context [MH20.10]
	Solving Quadratics 3: $ax^2 + bx + c = 0$ (a is Prime) [MH20.11]
	Solving Quadratics 4: $ax^2 + bx + c = 0$ (a is Not Prime) [MH20.12]

Solving Quadratic Equations (cont.)	Solving Quadratics 5: Challenge [MH20.13]
	Quadratic Simultaneous Equations [MH20.14]
Completing the Square	Completing the Square 1: $(x + q)^2 + r$ [MH53.01]
	Completing the Square 2: $(x + q/2)^2 + r$ [MH53.02]
	Completing the Square 3: $p(x + q)^2 + r$ [MH53.03]
	Completing the Square 4: $-p(x + q/2)^2 + r$ [MH53.04]
	Completing the Square to Solve Equations 1: $x^2 + bx + c$ [MH53.05]
	Completing the Square to Solve Equations 2: $x^2 + bx + c$ (Including Fractions) [MH53.06]
	Completing the Square to Solve Equations 3: $ax^2 + bx + c$ [MH53.07]
	Completing the Square to Solve Equations 4: Mixed Exercise [MH53.08]
	Completing the Square: Turning Points [MH53.09]
Algebraic Fractions	Algebraic Fractions 1: Simplify (Monomial Factors) [MH54.01]
	Algebraic Fractions 2: Simplify (Monomial Factors incl. Negatives) [MH54.02]
	Algebraic Fractions 3: Simplify (Binomial Factors) [MH54.03]
	Algebraic Fractions 4: Simplify (Binomial Factors) [MH54.04]
	Algebraic Fractions 5: Add and Subtract (Constant as Denominator) [MH54.05]
	Algebraic Fractions 6: Add and Subtract (Monomial as Denominator) [MH54.06]
	Algebraic Fractions 7: Add and Subtract (Binomial as Denominator) [MH54.07]
	Algebraic Fractions 8: Multiply [MH54.08]
	Algebraic Fractions 9: Multiply [MH54.09]
	Algebraic Fractions 10: Factorise then Multiply [MH54.10]
	Algebraic Fractions 11: Divide [MH54.11]
	Algebraic Fractions 12: Solve [MH54.12]
	Algebraic Fractions 13: Problem Solving [MH54.13]
Formulae	Using Kinematics [MF21.03]
	Recalling and Using Formulae 1 [MF21.04]
	Recalling and Using Formulae 2 [MH21.11]
	Rearranging Formulae: One Step [MF21.05]
	Rearranging Formulae: Two Step [MF21.06]
	Rearranging Formulae: Negative Subject [MF21.07]
	Rearranging Formulae: Unknown in Denominator [MF21.08]
	Rearranging Formulae: With Powers [MF21.09]
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Algebraic Proof	Introduction to Algebraic Proof [MH55.01]
	Algebraic Proof 1: Complete the Proof [MH55.02]
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	Algebraic Proof: Disproving by Example [MH55.04]
Functions	Functions: Key Concept [MH56.01]

Functions	Functions: Domain [MI56.18]
	Functions: Range [MI56.19]
	Functions: Substitution 1 (Linear Functions) [MH56.02]
	Functions: Substitution 2 (Quadratic Functions) [MH56.03]
	Functions: Substitution 3 (Challenge) [MH56.04]
	Functions: Solving [MH56.05]
	Functions: Algebraic [MH56.06]
	Composite Functions: Substitution 1 (2 Linear Functions) [MH56.07]
	Composite Functions: Substitution 2 (2 Non-Linear Functions) [MH56.08]
	Composite Functions: Substitution 3 (3 Functions) [MH56.09]
	Composite Functions: Substitution 4 (Quadratic Functions) [MH56.10]
	Composite Functions: Solving [MH56.11]
	Composite Functions: Algebraic [MH56.12]
	Inverse Functions 1: Linear [MH56.13]
	Inverse Functions 2: Non-Linear [MH56.14]
	Inverse Functions: Substitution [MH56.15]
	Inverse Functions: Solving [MH56.16]
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Sequences	Linear Sequences: Using the nth Term 1 (Substitute) [MF22.05]
	Linear Sequences: Using the nth Term 2 (Solve) [MF22.06]
	Sequences: a + (n – 1)d [MI22.20]
	Linear Sequences: Finding the nth Term 1 (Increasing) [MF22.07]
	Linear Sequences: Finding the nth Term 2 (Decreasing) [MF22.08]
	Sum of Arithmetic Sequences 1 [MI22.21]
	Sum of Arithmetic Sequences 2: Reverse [MI22.22]
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