

## SECONDARY MATHS COURSE MAPPING

## Supercharge learning through personalisation



www.century.tech

# **HOW CENTURY WORKS**

**Michael's Recommended Path** 

#### **Diagnostics**

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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 longterm memory retention.

#### Leadership Dashboard

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

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#### **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

 $\checkmark =$ 

×= √=

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

ß	My Dashboard		
	Overview Courses Achievements		
Ø	Hi, Emily The more regularly you learn on CENTURY, the more your brain will learg on to the information; wi've built CENTURY to fit your brain.	Want to see this in active Watch a CENTURY platform walkthrough	on?
	My Learning Activity		
	Week         Month         Year         10 May - 16 May 2021         Image: Comparison of the second sec		



# **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.



ws the plan view, front elevation, and side elevation

### 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) Edugas: C300P (QAN: 601/5503/6)







10 play both
8 don't play either
90 pupils in total

# **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

out the length of AB on the following diagram

CE = 12 cmDE = 9 cm

IGCSE Cambridge (Core): 0580 675 Nuggets

IGCSE Cambridge (Extended): 0980 1005 Nuggets

AE × BE =

 $6 \times (x+6) =$ 

6(x+6) =

x+6=

Remembe

46



### **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).





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

Nuggets in bold are present in the Higher course only.

Strand	Nugget Names	A
	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]	
Diagnostics	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	
	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]	
Simple	Times Tables: 8 and 9 [MF1.07]	
Arithmetic	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]	

	Integer Place Value [MF2.01]	
	Mathematical Symbols [MF2.02]	
	Negative Numbers [MH2.03]	
	Symmetrical Subtraction [MF2.04]	
	Adding Negatives [MF2.05]	
L luc el e verte ve el ine er	Subtracting Negatives [MF2.06]	
Understanding Number	Negatives and Positives [MH2.07]	
Number	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]	
	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]	
Four Operations	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]	
	Expressing Fractions [MF4.01]	
	Ordering Fractions [MF4.02]	
	Equivalent Fractions [MF4.03]	
Working with	Simplifying Fractions [MF4.04]	
FIGUIUNS	Shading Fractions [MF4.05]	
	Mixed and Improper Fractions [MF4.06]	
	Adding Fractions 1: Same Denominator [MF4.07]	

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## **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
	Diagnostic: Essential Four Operations [MCU0.01]
Diagnostics	Diagnostic: Catch Up [MCU0.02]
Catch Up	Diagnostic: Secondary Ready [MCU0.03]
	Number
	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]
Place Value	Counting in Multiples of 10 [PM10.04]
Catch Up	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]
	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]
Simple	3-Digit: Adding and Subtracting 100s [PM2.03]
Antimetic	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]
	Multiplying by 2 [PM10.05]
Multiplication	Multiplying by 3 [PM3.01]
and Division	Multiplying by 4 [PM3.02]

Multiplying by 5 (PM10.06)           Multiplying by 7 (PM3.18)           Multiplying by 7 (PM3.18)           Multiplying by 8 (PM3.03)           Multiplying by 9 (PM3.03)           Multiplying by 9 (PM3.03)           Multiplying by 1 (PM3.07)           Multiplying by 11 (PM3.20)           Multiplying by 12 (PM3.21)           Multiplying by 12 (PM3.23)           Multiplying by 2 (PM3.05)           (cont.)           Dividing by 2 (PM3.06)           Dividing by 3 (PM3.05)           (cont.)           Dividing by 4 (PM3.06)           Dividing by 5 (PM10.09)           Dividing by 6 (PM3.23)           Dividing by 6 (PM3.23)           Dividing by 9 (PM3.25)           Dividing by 9 (PM3.26)           Dividing by 10 (PM10.10)           Dividing by 11 (PM3.26)           Dividing by 11 (PM3.26)           Dividing by 11 (PM3.26)           Dividing by 11 (PM3.26)           Dividing and Multiplying by 10 and 100 (Including Decimals) (PM4.12)           Comparing Numbers with Greater Than and Less Than Symbols <> (PM1.09)           Number         Recognising Place Value in Decimals (PM1.21)           Recognising Place Value in Decimals (PM1.21)         Recognising Place Value in Decimals (PM1.21)           Recognising ant		
Multiplying by 6 (PM317)           Multiplying by 7 (PM318)           Multiplying by 9 (PM3.03)           Multiplying by 9 (PM3.19)           Multiplying by 10 (PM10.07)           Multiplying by 10 (PM10.07)           Multiplying by 11 (PM3.20)           Multiplying by 12 (PM3.21)           Multiplying by 12 (PM3.23)           Multiplying by 12 (PM3.24)           Multiplying by 12 (PM3.25)           Dividing by 2 (PM3.05)           Cont.)           Dividing by 3 (PM3.05)           Dividing by 5 (PM3.09)           Dividing by 6 (PM3.23)           Dividing by 6 (PM3.24)           Dividing by 10 (PM10.09)           Dividing by 10 (PM10.01)           Dividing by 10 (PM10.02)           Dividing by 10 (PM10.01)           Dividing by 10 (PM10.02)           Dividing and Multiplying by 10 and 100 (Including Decimals) (PM4.02) <td rowspan="2"></td> <td>Multiplying by 5 [PM10.06]</td>		Multiplying by 5 [PM10.06]
Multiplying by 7 [PM3.18]           Multiplying by 8 [PM3.03]           Multiplying by 9 [PM3.9]           Multiplying by 10 [PM10.07]           Multiplying by 10 [PM3.20]           Multiplying by 11 [PM3.20]           Multiplying by 12 [PM3.21]           Multiplying by 12 [PM3.22]           Multiplying by 12 [PM3.23]           Multiplying by 2 [PM3.05]           Dividing by 3 [PM3.05]           Dividing by 4 [PM3.06]           Dividing by 5 [PM10.08]           Dividing by 5 [PM3.05]           Dividing by 6 [PM3.23]           Dividing by 6 [PM3.23]           Dividing by 9 [PM3.25]           Dividing by 9 [PM3.25]           Dividing by 11 [PM3.26]           Dividing by 11 [PM3.26]           Dividing by 12 [PM3.27]           Mixed Multiplying by 10 and 100 (Including Decimals) [PM4.12]           Comparing Numbers with Greater Than and Less Than Symbols > [PM1.09]           Number           Recognising Place Value in Decimals [PM1.21]           Recognising Place Value in Decimals [PM1.21]           Recognising a Haff and a Quarter [M81.21]           Fractions of Amounts [PM4.06]           Comparing and Ordering Fractions [PM4.03]           Working with           Fractions to Geometry           Identif		Multiplying by 6 [PM3.17]
Multiplying by 8 [PM3.03]           Multiplying by 9 (PM3.19)           Multiplying by 10 [PM10.07]           Multiplying by 11 [PM3.20]           Multiplying by 11 [PM3.20]           Multiplying by 12 [PM3.21]           Multiplying by 12 [PM3.21]           Multiplying by 12 [PM3.22]           Dividing by 2 [PM10.08]           Dividing by 3 [PM3.05]           Dividing by 5 [PM10.09]           Dividing by 5 [PM10.09]           Dividing by 7 [PM3.24]           Dividing by 9 [PM3.25]           Dividing by 10 [PM10.0]           Ordering Numbers with Greater Than and Less Than Symbols <> [PM1.09]           Ordering Numbers Up to 1000 [PM1.10]           Recognising Place Value in Decimals [PM1.21]           Recognising a Haff and a Quarter [MB1.21]		Multiplying by 7 [PM3.18]
Multiplying by 9 [PM3.19]           Multiplying by 10 [PM10.07]           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 5 [PM3.05]           Dividing by 5 [PM3.06]           Dividing by 5 [PM3.23]           Dividing by 7 [PM3.24]           Dividing by 9 [PM3.25]           Dividing by 10 [PM10.0]           Dividing by 10 [PM1.0]           Dividing by 10 [PM1.0]           Dividing by 10 [PM1.0]           Dividing by 10 [PM1.1]           Mixed Division (Within the Times Tables) [PM3.28]           Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]           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]           Recognising Place Value in Decimals [PM4.03] </td <td></td> <td>Multiplying by 8 [PM3.03]</td>		Multiplying by 8 [PM3.03]
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]           and Division           Dividing by 2 [PM3.05]           Dividing by 3 [PM3.06]           Dividing by 5 [PM10.09]           Dividing by 8 [PM3.23]           Dividing by 9 [PM3.25]           Dividing by 10 [PM10.0]           Dividing by 10 [PM10.0]           Dividing by 11 [PM3.26]           Dividing by 12 [PM3.27]           Miked Division (Within the Times Tables) [PM3.28]           Dividing by 12 [PM3.27]           Miked Division (Within the Times Tables) [PM3.28]           Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]           Comparing Numbers with Greater Than and Less Than Symbols <> [PM1.09]           Ordering 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 [PM1.10]           Recognising a Half and a Quarter [MB1.21]           Finding Unit Fractions of Amounts [PM4.06]           Comparing and Ordering Fractions [PM4.03]           Ge		Multiplying by 9 [PM3.19]
Multiplying Multiples of 10 [PM3.09]           Multiplying by 11 [PM3.20]           Multiplication           Multiplication (Within the Times Tables) [PM3.22]           Dividing by 2 [PM3.08]           and Division           (cont.)           Dividing by 3 [PM3.05]           Dividing by 5 [PM10.09]           Dividing by 5 [PM10.09]           Dividing by 5 [PM10.09]           Dividing by 7 [PM3.24]           Dividing by 7 [PM3.24]           Dividing by 9 [PM3.25]           Dividing by 10 [PM1.01]           Dividing by 10 [PM1.02]           Dividing by 10 [PM3.26]           Dividing by 10 [PM3.26]           Dividing by 11 [PM3.26]           Dividing by 10 [PM1.01]           Dividing by 10 [PM1.02]           Comparing Numbers with Greater Than and Less Than Symbols <> [PM4.12]           Ordering Numbers Up to 1000 [PM1.10]           Number         Recognising Place Value in Decimals [PM2.11]           Recognising Place Value in Decimals [PM1.21]           Reading and Writing Numbers up to 1000 [PM1.10]           Working with         Recognising a Half and a Quarter [MB1.21]           Finding Unit Fractions [PM4.01]         Recognising a Half and a Quarter [MB1.21]           Finding Unit Fractions of Amounts [PM4.06]         Comparing and Orde		Multiplying by 10 [PM10.07]
Multiplying by 11 [PM3.20]           Multiplying by 12 [PM3.21]           Mixed Multiplication (Within the Times Tables) [PM3.22]           Dividing by 2 [PM10.08]           and Division           (cont.)           Dividing by 5 [PM10.09]           Dividing by 5 [PM10.09]           Dividing by 7 [PM3.23]           Dividing by 7 [PM3.24]           Dividing by 8 [PM3.07]           Dividing by 9 [PM3.25]           Dividing by 10 [PM10.10]           Dividing by 10 [PM1.26]           Dividing by 10 [PM3.26]           Dividing by 10 [PM3.26] </td <td></td> <td>Multiplying Multiples of 10 [PM3.09]</td>		Multiplying Multiples of 10 [PM3.09]
Multiplying by 12 [PM3.21]           Mixed Multiplication (Within the Times Tables) [PM3.22]           Multiplication (Cont.)           Dividing by 2 [PM0.08]           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 7 [PM3.24]           Dividing by 9 [PM3.25]           Dividing by 12 [PM3.27]           Mixed Division (Within the Times Tables) [PM3.28]           Dividing by 12 [PM3.27]           Mixed Division (Within the Times Tables) [PM3.28]           Dividing by 12 [PM3.27]           Mixed Division (Within the Times Tables) [PM3.28]           Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]           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]           Recognising Place Value in Decimals [PM1.21]           Recognising Place Value in Decimals [PM1.21]           Recognising Place Value in Decimals [PM4.06]           Comparing and Ordering Fractions [PM4.06]		Multiplying by 11 [PM3.20]
Mixed Multiplication (Within the Times Tables) [PM3.22]MultiplicationDividing by 2 [PM10.08]and DivisionDividing by 3 [PM3.05](cont.)Dividing by 4 [PM3.06]Dividing by 5 [PM10.09]Dividing by 5 [PM10.09]Dividing by 6 [PM3.23]Dividing by 7 [PM3.24]Dividing by 9 [PM3.25]Dividing by 9 [PM3.25]Dividing by 10 [PM10.10]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]Verting Numbers With Greater Than and Less Than Symbols <> [PM1.09]NumberRecognising Place Value in Decimals [PM1.21]Recognising Place Value in Decimals [PM1.21]Reading and Writing Numbers up to 1000 [PM1.11]Working withRecognising a Half and a Quarter [MB1.21]FractionsComparing and Ordering Fractions [PM4.03]Putroduction to GeometryIdentifying Lines [PM8.06]Lines of Symmetry (PM8.07]Identifying Angles [PM8.05]12D ShapesDescribing 3D Shapes [PM8.02]		Multiplying by 12 [PM3.21]
Multiplication and Division (cont.)Dividing by 2 [PM10.08](cont.)Dividing by 3 [PM3.05](cont.)Dividing by 4 [PM3.06]Dividing by 5 [PM10.09]Dividing by 5 [PM10.09]Dividing by 6 [PM3.23]Dividing by 7 [PM3.24]Dividing by 7 [PM3.24]Dividing by 9 [PM3.25]Dividing by 9 [PM3.25]Dividing by 10 [PM10.10]Dividing by 10 [PM10.10]Dividing by 11 [PM3.26]Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]Maked Division (Within the Times Tables) [PM3.28]Dividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]Vordering Numbers With Greater Than and Less Than Symbols $\diamond$ [PM1.09]Ordering Numbers Up to 1000 [PM1.10]Recognising Place Value in Decimals [PM1.21]Recognising Place Value in Decimals [PM1.21]Reading and Writing Numbers up to 1000 [PM1.11]Reading and Writing Numbers up to 1000 [PM1.10]Working withhFractions [PM4.04]Recognising at Half and a Quarter [MB1.21]Fractions of Amounts [PM4.06]Comparing and Ordering Fractions [PM4.03]Ceometry and MeasureIntroduction to GeometryIdentifying Lines [PM8.06]Lines of Symmetry [PM8.07]Identifying Angles [PM8.05]2D ShapesDescribing 2D Shapes [PM8.01]3D ShapesDescribing 3D Shapes [PM8.02]		Mixed Multiplication (Within the Times Tables) [PM3.22]
and Division (cont.) Dividing by 3 [PM3.05] Dividing by 4 [PM3.06] Dividing by 5 [PM10.09] Dividing by 5 [PM10.09] Dividing by 6 [PM3.23] Dividing by 7 [PM3.24] Dividing by 7 [PM3.24] Dividing by 9 [PM3.25] Dividing by 9 [PM3.25] Dividing by 10 [PM10.10] 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] Comparing Numbers with Greater Than and Less Than Symbols <> [PM1.09] Understanding Number Comparing Numbers With Greater Than and Less Than Symbols <> [PM1.09] Ordering Numbers With Greater Than and Less Than Symbols <> [PM1.09] Vinding and Writing Numbers up to 1000 [PM1.10] Recognising Place Value in Decimals [PM1.21] Reading and Writing Numbers up to 1000 [PM1.11] Recognising a Half and a Quarter [MB1.21] Fractions Fractions Feometry and Measure Introduction to Geometry Identifying Lines [PM8.06] Lines of Symmetry [PM8.07] Identifying Angles [PM8.05] 2D Shapes Describing 2D Shapes [PM8.02]	Multiplication	Dividing by 2 [PM10.08]
(cont.)         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 [PM10.0]           Dividing by 10 [PM3.26]           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]           Comparing Numbers with Greater Than and Less Than Symbols <> [PM1.09]           Understanding         Ordering Numbers Up to 1000 [PM1.10]           Recognising Place Value in Decimals [PM1.21]         Reading and Writing Numbers up to 1000 [PM1.11]           Recognising Place Value in Decimals [PM1.21]         Reading and Writing Numbers up to 1000 [PM1.11]           Working with         Recognising a Half and a Quarter [MB1.21]           Fractions         Finding Unit Fractions [PM4.01]           Working with         Recognising and Ordering Fractions [PM4.03]           Understanding Geometry         Identifying Lines [PM8.06]           Introduction to Geometry         Identifying Lines [PM8.06]           Lines of Symmetry [PM8.05]         Lines of Symmetry [PM8.06]           Describing 2D Shapes [PM8.01]         Describing 2D Shapes [PM8.01]	and Division	Dividing by 3 [PM3.05]
bividing 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]Comparing Numbers Up to 1000 [PM1.10]NumberRecognising Place Value in Decimals [PM1.21]Reading and Writing Numbers up to 1000 [PM1.10]Recognising and Writing Numbers up to 1000 [PM1.11]Recognising and Writing Numbers up to 1000 [PM1.12]Reading and Writing Numbers up to 1000 [PM1.11]Recognising and Writing Numbers up to 1000 [PM1.12]Recognising and Writing Numbers up to 1000 [PM1.11]Recognising and Ordering Fractions [PM4.03]Working withFractionsIntroduction to GeometryIntroduction to Geometry2D Shapes2D ShapesDescribing 2D Shapes [PM8.02]	(cont.)	Dividing by 4 [PM3.06]
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]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]Recognising Place Value in Decimals [PM1.21]Reading and Writing Numbers up to 1000 [PM1.11]Recognising a Half and a Quarter [MB1.21]FractionsFinding Unit Fractions of Amounts [PM4.06]Comparing and Ordering Fractions [PM4.03]Geometry and MeasureIntroduction to GeometryIdentifying Lines [PM8.06]Lines of Symmetry [PM8.07]Identifying Angles [PM8.05]2D ShapesDescribing 2D Shapes [PM8.02]		Dividing by 5 [PM10.09]
Dividing by 7 [PM3.24]Dividing by 8 [PM3.07]Dividing by 9 [PM3.25]Dividing by 10 [PM10.10]Dividing by 10 [PM10.26]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 NumberRecognising Place Value in Decimals [PM1.01]Reading and Writing Numbers up to 1000 [PM1.10]Recognising Place Value in Decimals [PM1.21]Reading and Writing Numbers up to 1000 [PM1.11]Reading and Writing Numbers up to 1000 [PM1.12]FractionsFinding Unit Fractions [PM4.01]Recognising a Half and a Quarter [MB1.21]Finding Unit Fractions of Amounts [PM4.06]Comparing and Ordering Fractions [PM4.03]Ceometry and MeasureIntroduction to GeometryQartifying Lines [PM8.05]Lines of Symmetry [PM8.05]Lines of Symmetry [PM8.05]2D ShapesApp ShapesDiscribing 3D Shapes [PM8.02]		Dividing by 6 [PM3.23]
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]UnderstandingNumberRecognising Place Value in Decimals [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]Recognising Place Value in Decimals [PM1.21]Recognising a Half and a Quarter [MB1.21]FractionsFinding Unit Fractions of Amounts [PM4.06]Comparing and Ordering Fractions [PM4.03]Ceometry and MeasureIntroduction to GeometryQartifying Lines [PM8.06]Lines of Symmetry [PM8.07]Identifying 2D Shapes [MA2.06]2D ShapesAlcentifying 2D Shapes [PM8.01]3D ShapesDescribing 3D Shapes [PM8.02]		Dividing by 7 [PM3.24]
bividing by 9 [PM3.25]           bividing by 10 [PM1010]           bividing by 11 [PM3.26]           bividing by 12 [PM3.27]           Mixed Division (Within the Times Tables) [PM3.28]           bividing and Multiplying by 10 and 100 (Including Decimals) [PM4.12]           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]           Recognising a Half and a Quarter [MB1.21]           Fractions           Finding Unit Fractions of Amounts [PM4.06]           Comparing and Ordering Fractions [PM4.03]           Geometry and Measure           Identifying Lines [PM8.06]           Lines of Symmetry [PM8.07]           Identifying Angles [PM8.05]           2D Shapes         Identifying 2D Shapes [PM8.01]           3D Shapes         Describing 3D Shapes [PM8.02]		Dividing by 8 [PM3.07]
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 NumberOrdering 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]Recognising and Writing Numbers up to 1000 [PM1.11]Recognising a Half and a Quarter [MB1.21]Finding Unit Fractions of Amounts [PM4.06] Comparing and Ordering Fractions [PM4.03]Geometry and MeasureIntroduction to GeometryIdentifying Lines [PM8.06] Lines of Symmetry [PM8.07] Identifying Angles [PM8.05]2D ShapesIdentifying 2D Shapes [MA2.06] Describing 2D Shapes [PM8.01]3D ShapesDescribing 3D Shapes [PM8.02]		Dividing by 9 [PM3.25]
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Comparing and Ordering Fractions [PM4.03]Geometry and MeasureIntroduction to GeometryIdentifying Lines [PM8.06]Lines of Symmetry [PM8.07]Lines of Symmetry [PM8.07]Identifying Angles [PM8.05]Identifying Angles [PM8.05]2D ShapesIdentifying 2D Shapes [MA2.06]Describing 2D Shapes [PM8.01]Describing 3D Shapes [PM8.02]	Fractions	Finding Unit Fractions of Amounts [PM4.06]
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Identifying Angles [PM8.05]2D ShapesIdentifying 2D Shapes [MA2.06]Describing 2D Shapes [PM8.01]3D ShapesDescribing 3D Shapes [PM8.02]	Introduction to	Lines of Symmetry [PM8.07]
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2D Shapes     Describing 2D Shapes [PM8.01]       3D Shapes     Describing 3D Shapes [PM8.02]		Identifying 2D Shapes [MA2.06]
3D Shapes Describing 3D Shapes [PM8.02]	20 Shapes	Describing 2D Shapes [PM8.01]
	3D Shapes	Describing 3D Shapes [PM8.02]

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	Length [PM5.02]	$\mathcal{N}$
	Solving Length Problems [PM5.03]	
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	Solving Mass Problems [PM5.05]	NA7
	Volume and Capacity [PM5.06]	
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	Perimeter by Counting [PM5.08]	
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	Units of Time [PM7.01]	
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Time and Manau	Telling the Time in Words [PM7.03]	
Time and Money	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		
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	Bar Charts [PM9.03]	



## **Nuggets included in Mathematics Secondary (F+)**

Strand	Nugget Names
	Diagnostic: Essential Four Operations [MCU0.01]
Diagnostics Catch Up	Diagnostic: Catch Up [MCU0.02]
	Diagnostic: Secondary Ready [MCU0.03]
	Diagnostic: Number 1 [MF0.01]
	Diagnostic: Algebra 1 [MF0.02]
	Diagnostic: Geometry 1 [MF0.03]
	Diagnostic: Number 2 [MF0.04]
Diagnostics	Diagnostic: Probability 1[MF0.05]
	Diagnostic: Statistics 1 [MF0.06]
	Diagnostic: Algebra 2 [MF0.07]
	Diagnostic: Geometry 2 [MF0.08]
	Number
	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]
Place Value	Counting in Multiples of 10 [PM10.04]
Catch Up	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]
	Addition [MF1.01]
Simple Arithmetic	Single Digit Addition [PM10.11]
	Subtraction [MF1.02]
	Addition and Subtraction [MF1.03]
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	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]
Simple Arithmetic (cont.)	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]
	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]
Multiplication	Multiplying by 10 [PM10.07]
and Division	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]

	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]
Multiplication	Dividing by 10 [PM10.10]
and Division	Dividing by 11 [PM3.26]
(cont.)	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]
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	Symmetrical Subtraction [MF2.04]
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	Negatives and Positives [MF2.07]
	Ordering Integers [MF2.08]
	Ordering Numbers up to 1000 [PM1.10]
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	Ordering Decimals [MF2.09]

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	Reading and Writing Numbers up to 1000 [PM1.11]
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Nuggets in **bold** are present in the Extended course only

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	Box Plots 5: Evaluate and Compare [MH60.13]
	Cumulative Frequency and Box Plots [MH60.14]
	Frequency Density 1: Calculating [MH61.01]
	Frequency Density 2: Problem Solving [MH61.02]
	Histograms 1: Choosing Axes [MH61.03]
Histograms	Histograms 2: Plotting [MH61.04]
	Histograms 3: Calculating Frequency [MH61.05]
	Histograms 4: Calculating Frequency within a Given Range [MH61.06]

to to

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]	
	Histograms 9: Mean [MH61.11]	
	Histograms 10: Mixed Exercise (Consolidates 6-9) [MH61.12]	



## **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
	Diagnostic 1: Essentials [BR0.01]
	Diagnostic 2: Essentials [BR0.02]
	Diagnostic 3 [BR0.03]
	Diagnostic 4 [BR0.04]
Diamanting	Diagnostic 5: Physics for Mechanics [BR0.05]
Diagnostics	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]
	Compound Interest (Calculator) [MF11.07]
	Depreciation (Calculator) [MF11.08]
Percentages	Compound Interest and Depreciation (Calculator) [MF11.09]
Calculator	Exponential Growth [MH11.14]
	Exponential Decay [MH11.15]
	Exponential Growth and Decay [MH11.16]
	Squares [MF12.01]
	Cubes [MF12.02]
Powers and	Squaring and Cubing Negatives [MF12.03]
Roots	Powers [MF12.04]
	Roots of Squares and Cubes [MF12.05]
	Roots [MF12.06]
	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	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]
	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	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]
	Simplifying Expressions 1: Multiplication [MF17.07]
	Simplifying Expressions 2: Multiplication (In Context) [MF17.08]
	Simplifying Expressions 3: Division [MF17.09]
Introduction to	Simplifying Expressions 4: Division [MF17.10]
Algebia	Simplifying Expressions 5: Multiplication and Division [MF17.11]
	Simplifying Expressions 6: Index Laws [MH17.17]
	Simplifying Expressions 7: Index Laws [MH17.18]
	Expanding Single Brackets 5: $\pm ax(\pm ax^2 \pm x \pm a)$ [MF18.05]
Expanding and	Expanding and Simplifying [MF18.06]
Factorising	Expanding Double Brackets 1: (x $\pm$ a)(x $\pm$ b) [MF18.10]
	Expanding Double Brackets 2: $(ax \pm b)(cx \pm d)$ [MF18.11]

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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 ± c) <sup>2</sup> [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 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]
Solving Linear	Simultaneous Equations 1 [MF19.21]
Equations	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 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]
Solving Quadratic	Quadratic Formula 1: Identify A, B and C [MH20.06]
Equations	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	Solving Quadratics 5: Challenge [MH20.13]
Equations (cont.)	Quadratic Simultaneous Equations [MH20.14]
	Completing the Square 1: (x + q) <sup>2</sup> + 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	Completing the Square to Solve Equations 1: x <sup>2</sup> + bx + c [MH53.05]
Square	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 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	Algebraic Fractions 6: Add and Subtract (Monomial as Denominator) [MH54.06]
Fractions	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]
	Using Kinematics [MF21.03]
	Recalling and Using Formulae 1 [MF21.04]
	Recalling and Using Formulae 2 [MH21.11]
	Rearranging Formulae: One Step [MF21.05]
Formulae	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]
	Rearranging Formulae: Unknown on Both Sides [MF21.10]
	Introduction to Algebraic Proof [MH55.01]
	Algebraic Proof 1: Complete the Proof [MH55.02]
Algebraic Proof	Algebraic Proof 2 [MH55.03]
	Algebraic Proof: Disproving by Example [MH55.04]
Functions	Functions: Key Concept [MH56.01]

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	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]
Functions	Composite Functions: Substitution 2 (2 Non-Linear Functions) [MH56.08]
Functions	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]
	Composite and Inverse Functions [MH56.17]
	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]
	Important Sequences: Squares, Cubes and Triangular Numbers [MF22.10]
Sequences	Important Sequences: Geometric [MF22.11]
	Quadratic Sequences: Using the nth Term [MF22.13]
	Subscript Notation [MH22.14]
	Unusual Sequences [MH22.15]
	Quadratic Sequences 1: n <sup>2</sup> + c [MH22.16]
	Quadratic Sequences 2: an <sup>2</sup> + c [MH22.17]
	Quadratic Sequences 3: an <sup>2</sup> + bn + c [MH22.18]
	Quadratic Sequences 4: $an^2 + bn + c$ and $(an + b)^2$ [MH22.19]
	Coordinates and Ratios [MH23.20]
Churcher L L	Horizontal and Vertical Graphs [MF23.04]
Straight Line Graphs	Other Important Linear Graphs [MF23.05]
	Plotting Straight Line Graphs: 1st Quadrant [MF23.06]
	Plotting Straight Line Graphs: 4 Quadrants [MF23.07]

	Finding the Gradient of a Line Segment: Using the Graph [MF23.08]
	Finding the Gradient of a Line Segment: Using the Formula [MF23.09]
	Understanding y = mx + c [MF23.10]
	Graphing y = mx + c (1) [MF23.11]
	Graphing y = mx + c (2) [MF23.12]
	Finding y = mx + c from a Gradient and a Point [MF23.13]
	Finding y = mx + c from Two Points [MF23.14]
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Straight Line	Finding Parallel Lines [MF23.16]
Graphs (cont.)	Finding Perpendicular Lines 1: Gradient [MH23.21]
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	Finding Perpendicular Lines 3: Problem Solving [MH23.23]
	Equation of a Tangent 1: Circle Given [MH23.24]
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	Solving Using Straight Line Graphs [MF23.17]
	Solving Simultaneous Equations Using Straight Line Graphs 1: Graphs Given
	[MF23.18] Solving Simultaneous Equations Using Straight Line Graphs 2: Graphs Not
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	Plotting Simple Quadratic Graphs 1: $y = ax^2 + c$ [MF24.01]
	Plotting Simple Quadratic Graphs 2: $y = ax^2 + bx + c$ [MF24.02]
	Quadratic Graphs: Finding the y-intercept [MF24.03]
	Quadratic Graphs: Finding the Line of Symmetry [MF24.04]
	Quadratic Graphs: Finding the Turning Point [MF24.05]
	Quadratic Graphs: Finding the Roots [MF24.06]
	Quadratic Graphs: Turning Point from Completing Square 1: $y = (x + q)^2 + r$ Given [MH24.13]
	Quadratic Graphs: Turning Point from Completing Square 2: $y = (x + q)^2 + r$ Not Given [MH24.14]
Quadratic and	Quadratic Graphs: Turning Point from Completing Square 3: $y = \pm p(x + q)^2 + r$ Not Given [MH24.15]
Other Graphs	Estimating Gradients [MH24.16]
Other Graphs	Exponential Functions [MH24.17]
	Trigonometric Functions: Sin Graph [MH24.18]
	Trigonometric Functions: Cos Graph [MH24.19]
	Trigonometric Functions: Tan Graph [MH24.20]
	Trigonometric Functions: Combined [MH24.21]
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	Plotting Other Polynomial Graphs [MF24.07]
	Plotting Reciprocal Graphs [MF24.08]
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	Approximate Solutions Using a Graph [MF24.10]
	Transforming Graphs: Translating Vertical [MH24.24]
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	Transforming Graphs: Reflections [MH24.26]
	Transforming Graphs: Stretching y-direction [MH24.27]
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Quadratic and	Transforming Graphs: Mixed Translations [MH24.29]
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	Transforming Graphs: Mixed [MH24.31]
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	Quadratic Simultaneous Equations Graphically [MH24.35]
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	Solving Inequalities: Two Step [MF25.08]
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	Solving Inequalities: Finding Integer Solutions with Two Sides [MF25.11]
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	Solving Inequalities: Quadratics 1 [MH25.14]
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	Area and Perimeter of Composite Shapes with Sectors 1 [MF32.16]
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	Distance-Time Graphs: Interpreting [MF38.20]
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	Velocity-Time Graph: Acceleration [MH38.24]
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	Angle in a Semicircle and Angle at Tangent [MH57.01]
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	Tangents from an External Point [MH57.03]
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	Pythagoras: Applied Questions [MF44.07]
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	Trigonometry: Using a Calculator [MF45.02]
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3D Trigonometry	3D Pythagoras 1: Cuboids [MH59.01]
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