BLOCK 1 (21 PERIODS) (2 topics)   August – September

Numeracy	12 periods
Angles	9 periods

BLOCK 2 (33 PERIODS) (5 topics) October – November

Integers	6 periods
Coordinates	4 periods
Fractions and Percentages	12 periods
Money	5 periods
Ratio	6 Periods

BLOCK 3 (39 PERIODS) (4 topics) December – February

Algebra	15 periods
Statistics	12 periods
Special Numbers	6 periods
Patterns	6 periods

BLOCK 4 (32 PERIODS) (5 topics) February – May

Length and Area	10 periods
Circle	8 periods
Volume and Nets	8 periods
Symmetry	6 periods
Quadrilaterals	

BLOCK 1   Benchmarks in red are revision of level 2

Topic 1   Numeracy

Time	Benchmarks	CfE	Resources	Activities
12 Periods	• Rounding to nearest 10,100,1000 • Rounding to 1, 2,3... decimal places • Rounding to 1, 2, 3... significant figures • Estimate answers , problem solving using rounding • Multiply by multiples of 10 • Divide by multiples of 10 • Multiply by a 2 digit numbers • *BOOKLET Add, Subtract, Multiply and Divide decimals* • Order of Operations (BODMAS) • Mental calculations	3.01a 3.03a 3.03b 3.09a 4.03b	**TJ 3(a)** Chapter 1 Rounding Chapter 2 Whole Numbers	**MW- Number -Topic 12** Target 2, 4-12 (nearest 10,100,1000) Target 3 (1,2,3 &4 decimal places) Target 4, 1-3 (identify sig. figs) Target 4, 4-12 (round to 1, 2, 3 sig fig) **MW -Number –** Topic 4, Target 4 (x/÷ by 10, 100, 100) Topic 1, Target 3, 8-9 (long multiplication) Topic 5, All Targets (+/-/ x/÷ decimals) Topic 8, Target 1, 1-2 (BODMAS) BODMAS Colouring Problem BODMAS Activity target Worksheet

Topic 2   Angles

Time	Benchmarks	CfE	Resources	Activities
9 Periods	• *Level 2 revision-Types of Angle, Naming Angles* • Complementary, Supplementary Angles • Calculating Missing Angles, • Angles in Δ add to 180^0 • • Corresponding Angles, • Alternate Angles, • Missing Angles with parallel lines	2.17b 3.17a	**TJ 3(a)** Chapter 3 Angles **TJ 3(b)** Chapter 6 Angles	**MW- Geometry and Measures – Topic 8** Target 1, 1-6 Target 2, 1-3 Target 2, 1-7 and Target 3, 7-9 Target 3, 1-6 Target 4, 3-4 Target 4, 1-2

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BLOCK 1 ASSESSMENT (Non Calculator ONLY)

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If time permits Extension Chapter 9 TJ 3(b) on Scale Drawing and Bearings.

BLOCK 2

Topic 3   Integers

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Negative numbers in context-Money, temp, time • Adding / subtracting +ve integers, • Adding –ve integers • Subtracting –ve integers • Multiplying Integers • *Ext: Dividing Integers*	3.04a 3.03b 2.18a 4.18a 4.18b	**TJ 3(a)** Chapter 4 Integers	**MW – Number – Topic 6** Targets 1,2&3 Target 4, 1-3 Target 4, 4-5 Target 4, 6-8 Target 5, 5&7 Target 5, 6&8

Topic 4   Coordinates

Time	Benchmarks	CfE	Resources	Activities
4 Periods	• Plot and describe Coordinates in first quadrant • Reading and plotting Coordinates in four quadrants • Reflecting in x and y -axes	3.18a	**TJ 3(a)** Chapter 5 Coordinates	**MW – Algebra and Problem Solving** Topic 17, Target 1, 1-2 **MW – Geometry and Measures** Topic 20, Target 1, 1-2

Topic 5   Fractions and Percentages

In an attempt to get pupils confident with working out percentages we will ask them to calculate their HW marks as a percentage from this chapter onwards and will check their answers, this requires rounding to nearest whole also.

Time	Benchmarks	CfE	Resources	Activities
12 Periods	• Equivalent fractions • Simplifying Fractions, • *BOOKLET* Fractions of a quantity • Changing top-heavy to mixed fractions and vice versa • Adding fractions with same denominator • Adding fractions with different denominators • *Ext: multiplying fractions, 4.8; dividing fractions* • Finding common percentages • Calculating Percentages with a calculator • Linking Fractions <--> Decimal <--> %	3.03a 3.03b 3.10a 3.07b 3.07c 3.08a 4.07a 4.07b	**TJ 3(a)** Chapter 9 Fractions L3 BOOKLET –Fractions of a quantity **TJ 3(b)** Chapter 8 Fractions (*x /÷*) **TJ 3(a)** Chapter 6 %ages, Fractions and Decimals	**MW – Number – Topic 17** Target 2 Target 3 Target 5 Target 4 **MW – Number – Topic 18** Targets 3&4 Target 5 (mult/div fractions) www.math-drills.com Converting between fractions, decimals and percentage worksheet Topic 19 – Target 3 Topic 19 – Target 4 Topic 20 – Target 1, 7-8

Topic 6   Money

Time	Benchmarks	CfE	Resources	Activities
5 Periods	• Foreign Exchange • Compares costs-Best Buys, Best Deal • Demonstrates understanding of the benefits and risks of using bank card	2.09a 2.09b 3.09a 3.09b	**TJ 3(b) ONLY** Chapter 2 Money	Best Buy challenge Questions

Topic 7   Ratio

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Expresses quantities as a ratio • Simplifying Ratios • Ratio Calculations • Proportional division	3.08a 4.08a	**TJ 3(a)** Chapter 11 Ratio **TJ 3(b)** Chapter 10 Proportion (Ex1, 2, 3 ONLY)	**MW – Number – Topic 21** Targets 2&3 Target 1 Target 4, 3-4 Target 3

BLOCK 2 ASSESSMENT

BLOCK 3

Topic 8   Algebra

Ensure that you teach pupils to distinguish between times(x) and variable (x). Solving equations should be taught using the balance method and, when class are ready, moving onto doing the opposite or undoing the equation

Time	Benchmarks	CfE	Resources	Activities
15 Periods	**Chapter 7** • Simplifying expressions • Breaking brackets • Breaking brackets and tidying up • Solving simple equations • Solving equations with brackets • Substitution, • Evaluating formulae **Chapter 5** • Solving equations with x on both sides Ex.2 • *Ext: Solving equations with fractions* • Solving inequalities	3.14a 3.15a 3.15b 4.15a 4.15b 4.14a 4.15a	**TJ 3(a)** Chapter 7 Algebra **TJ 3(b)** Chapter 5 Algebra	**MW – Algebra and Problem Solving** Topic 3 Topic 4 Topic 4 Topic 6 Topic 8, Target 1, 3-5 and Targets 2&3 Topic 9, Targets 2-4 Topic 16, Target 1, 1-2 Topic 16, Target 3, 1-4 Topic 25, Target 3, 1-4 www.math-drills.com

Topic 9   Statistics

Time	Benchmarks	CfE	Resources	Activities
12 Periods	**Chapter 12** • Bar Graphs and Line Graphs • Interpreting and Drawing Pie Charts • Drawing Pie Charts with a protractor • Mean and Range • Median and Mode • Stem and Leaf • Conducting a survey **Chapter 13** • Probability as a Fraction Ex 3 ONLY • *Ex: Independent and Dependant Events*	3.20a 3.20b 3.21a 4.20a 4.20b 4.21a	**TJ 3(b)** Chapter 12 Statistics **TJ 3(b)** Chapter 13 Probability	**MW – Statistics and Probablity** Topic 5 and Topic 6, Target 1, 1-2 Topic 8 Topic 3, Target 3(mean), Target 4(range) Topic 3, Target 3(median),Target 1 (mode) Topic 9 Topic 10, Target 1 and Target 2, 1 & 9-11

Topic 10   Special Numbers

Time	Benchmarks	CfE	Resources	Activities
6 Periods	**Chapter 1** • Squares, Cubes and Powers • Roots **Chapter 3** • Multiples, l.c.m • Factors and h.c.f. • Prime Numbers • *Ext: Prime Decomposition*	3.03a 3.05a 3.05b 3.06a	**TJ 3(b)** Chapter 1 Powers and Roots **TJ 3(b)** Chapter 3 Multiples and Factors	**MW – Number** Topic 10, Target 1, 1-5 and Targets 3&5 Topic 10, Targets 2&4 Topic 9 Topic 7 Topic 8, Target 1 Topic 8, Target 2&3

Topic 11   Patterns

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Sequences • Simple linear patterns, $y = mx$ • More complicated patterns, $y = mx + c$ • *Ext: Linear Graphs*	3 .13a	**TJ 3(b)** Chapter 4 Patterns and Relationships	**MW -Algebra & Problem Solving –** Topic 14

BLOCK 3 ASSESSMENT

BLOCK 4
Topic 12   Length and Area

Time	Benchmarks	CfE	Resources	Activities

10 Periods	**Chapter 8**
	• Perimeter & Area of rectangle, Square and Triangle
	• Area of:-
	  o Rhombus
	  o Kite
	  o Parallelogram
	  o Trapezium
	• Area of composite shapes
	
	• BOOKLET:-
	  o Units of Length,
	  o Perimeter,
	  o Weight
	  o Calculations using kg, g
	  o Capacity
		2.11a
		2.11b
		2.11c
		2.16a
		3.11a
		3.11b
			TJ 3(a)
			Chapter 8 Perimeter/Area
			
			L3 BOOKLET Converting Units
				MW – Geometry and Measures
				
				Topic 10, Target 1 (Perimeter)
				Topic 11, Target 1, Tgt 2, 1-2, Tgt3, 1-4 (Area)
				
				Topic 11, Target 5, 5-6
				Topic 11, Target 5, 1-2
				Topic 11, Target 5, 2-4
				Topic 11, Target 5, 7-8
				Topic 11, Target 2, 3-7 and Target 3, 5-6
				
				Topic 2, Targets 1-3
				
				Topic 12, Target 1, 1-5

Topic 13   Circles

Time	Benchmarks	CfE	Resources	Activities
8 Periods	**Chapter 10** • Parts of a Circle • Circumference of Circle • Finding the Diameter **Chapter 14** • Area of Circle • Problems involving part circles	4.16b	**TJ 3(a)** Chapter 10 Circle 1 **TJ 3(a)** Chapter 14 Circle 2	**MW – Geometry and Measures** Topic 25, Target 1 and Target 2, 1-2 Topic 25, Target 1, 3-4 Topic 25, Target 2, 3-4

Topic 14   3D Shapes

Time	Benchmarks	CfE	Resources	Activities
8 Periods	• Revision : Dimensions, faces, edges, vertices • Volume of a cuboid and composite shapes • Volumes of Triangular Prism and composite shapes • Net and Surface Area of a Cuboid • Net and Surface Area of a △ prism	2.16b 3.16a	**TJ 3(a)** Chapter 12 Volume L3 BOOKLET **3D Shapes**	**MW – Geometry and Measures** Topic 7, Target 2 Topic 12, Targets 3-5

Topic 15   Symmetry

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Identifies all lines of symmetry • Rotational symmetry • Create half turn symmetry • Slide symmetry	2.19a 3.19a	**TJ 3(b)** Chapter 11 Symmetry	**MW – Geometry and Measures** Topic 3, Targets 4-5 Topic 4, Targets 1-2 Topic 4, Target 3 Topic 19, Target 3

BLOCK 4 ASSESSMENT