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
Time	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) (4 topics) February – May

Length, Area & Volume	12 periods
Symmetry	3 periods
2D Shapes	8 periods
3D Shapes	5 periods

BLOCK 1

Topic 1   Whole Number

Time	Benchmarks	CfE	Resources	Activities
10 Periods	• Place Value • Add Subtract • Rounding to nearest 10,100, Extend to 1000 • Estimate answers , problem solving using rounding • Multiply by a single digit • Divide by a single digit • Multiply by 10,100,1000 • Divide by 10,100,1000 • Multiply by multiples 10,100,1000 • Divide by multiples 10,100,1000 • Using a calculator • Mental calculations		**TJ 2(a)** **Chapter 1 – p 6** **Chapter 3 – p20**	**MW- Number -Topic 12** Target 2, 4-12 (nearest 10,100,1000) Target 3 (1,2 & 3) **MW -Number –** Topic 4, Target 4 (x/÷ by 10, 100, 100) Topic 5, All Targets (+/-/ x/÷ decimals) Topic 8, Target 1, 1-2 (BODMAS) BODMAS Colouring Problem BODMAS Activity target Worksheet

Topic 2   Decimals

Time	Benchmarks	CfE	Resources	Activities
10 Periods	• Working with decimals • Reading decimal scales • Rounding to nearest Whole Number • Rounding to 1 decimal places • Add subtract decimals • Multiply by 10,100,1000 • Divide by 10,100,1000 • Multiply by a single digit • Divide by a single digit • Multiply by multiples of 10,100,1000 • Divide by multiples of 10,100,1000 • Mixed Problems		**TJ 2(a)** **Chapter 5 – p 37** **Chapter 7 – p62**	**MW- Number -Topic 12** Target 2, 4-12 (nearest 10,100,1000) Target 3 (1,2 & 3) **MW -Number –** Topic 4, Target 4 (x/÷ by 10, 100, 100) Topic 5, All Targets (+/-/ x/÷ decimals) Topic 8, Target 1, 1-2 (BODMAS) BODMAS Colouring Problem BODMAS Activity target Worksheet

Topic 3   Angles

Time	Benchmarks	CfE	Resources	Activities
9 Periods	2a book • Types of angles • Naming angles • Measuring angles • Drawing angles • Compass points		TJ 2(a) Chapter 6 pg 52	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

BLOCK 1 ASSESSMENT (Non Calculator ONLY)

BLOCK 2

Topic 4   Integers

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Interpreting Negative Numbers • Simple up and down using thermometer • Simple add/subtract		TJ 2(b) Chapter 8 pg 81	MW – Number – Topic 6 Targets 1,2&3 Target 4, 1-3 Target 4, 4-5

Topic 5   Coordinates

Time	Benchmarks	CfE	Resources	Activities
4 Periods	**2 (a) book** • Coordinates of a point • X and 7 axis • Coordinates for fun **2 (b) book** • Coordinates in all quadrants		**TJ 2(a)** **Chapter 14** **TJ 2(b)** **Chapter 55 Pg 142**	**MW – Algebra and Problem Solving** Topic 17, Target 1, 1-2 **MW – Geometry and Measures** Topic 20, Target 1, 1-2

Topic 6   Fractions and Percentages

Time	Benchmarks	CfE	Resources	Activities
12 Periods	• Identify Fractions • Equivalent fractions • Simplifying Fractions, • Fractions of a quantity • What is a percentage? • Equivalence • Finding common percentages • Calculating Percentages with a calculator		**TJ 2(a)** **Chapter 11** **TJ 2(a)** **Chapter 12**	**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
12 Periods	**TJ 2(a)** • Value of money • Adding subtracting • Bills, coins and change • Best Buy questions • Mixed Questions **TJ 2(b)** • Debit/credit cards • Budgeting • Profit & Loss • Discount • Hire Purchase • Foreign Exchange • Foreign Exchange in reverse	2.09a 2.09b 3.09a 3.09b	**TJ 2(a)** **Chapter 7** **TJ 2(b)** **Chapter 7**	Best Buy challenge Questions

Topic 7   Time

Time	Benchmarks	CfE	Resources	Activities
6 Periods	• Revision of 12 hour time • 24 hour notation • Time intervals • Timetables • Calendars • Minutes & Seconds		**TJ 2(a)** **Chapter 4**	

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
10 Periods	**TJ 2(a)** • Revise basic Function machines • Find values of symbols • Simple equations • Simplifying expressions (not covered in either book) Use maths workout **TJ 2(b)** • Extended number machines • Solving harder equations • Inequalities • Solve basic inequalities		**TJ 2(a)** **Chapter 10** **TJ 2(b)** **Chapter 11**	**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	**TJ 2(a)** • Organising Data - Bar Graphs and Line Graphs (spend a few periods working through this) • Interpreting Pie Charts • Misinterpretation of data • Conduct a survey and write up **TJ 2(b)** • Probability/chance • Probability calculations • Simplifying probabilities	3.20a 3.20b 3.21a 4.20a 4.20b 4.21a	**TJ 2(a)** **Chapter 18 Statistics** **TJ (2b)** **Chapter 18 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
3 Periods	• Multiples • Factors • Problems involving multiples and factors	3.03a 3.05a 3.05b 3.06a	**TJ 2(a)** **Chapter 17**	**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	• Revision of basic patterns • Describing number patterns in words • Square and triangular numbers • Linear patterns, y= mx • More complicated patterns, y=mx+c	3 .13a	**TJ 2(a)** **Chapter 15** **TJ 2(b)** **Chapter 14**	

BLOCK 3 ASSESSMENT

BLOCK 4

Topic 12   Length, Area, Volume & Weight

Time	Benchmarks	CfE	Resources	Activities
12 Periods				**MW – Geometry and Measures**
				Topic 10, Target 1 (Perimeter)
	o Measuring, estimating and drawing lengths mm, cm (m) 113-115		**TJ 2(a) Chapter 13a**	Topic 11, Target 1, Tgt 2, 1-2, Tgt3, 1-4 (Area)
	o Units of length - converting 116-117			Topic 11, Target 5, 5-6
	o Problems involving lengths including perimeters 118-120		**TJ 2(a) Chapter 13b**	Topic 11, Target 5, 1-2
				Topic 11, Target 5, 2-4
Ch 13b				Topic 11, Target 5, 7-8
	o Area by counting squares and estimating 122-123		**TJ 2(a) Chapter 13c**	Topic 11, Target 2, 3-7 and Target 3, 5-6
	o Area of square and rectangle using formula (simple) cm2, m2, km2 124-126		**TJ 2(a) Chapter 13d**	
	o Area of right angle triangle by surrounding with rectangle and halving 127-128			
Ch 13c				Topic 2, Targets 1-3
	o What is volume ? bigger/smaller holds more/less 130-131			
	o Litres and millilitres, converting and problems 132-133			Topic 12, Target 1, 1-5
	o Volumes by counting cubes 134-136			
	o Volume of a cuboid using a formula 137-139			
Ch 13d				
	o Grams and kilograms and converting 141			
	o Problems involving weight 142-143			

Topic 13   Symmetry

Time	Benchmarks	CfE	Resources	Activities
3 Periods	• Identifies all lines of symmetry • Creating a symmetrical shape • Tiling activity		TJ 2(a) Chapter 2	**MW – Geometry and Measures** Topic 3, Targets 4-5 Topic 4, Targets 1-2 Topic 4, Target 3 Topic 19, Target 3

Topic 14   2D Shapes

Time	Benchmarks	CfE	Resources	Activities
8 Periods	**TJ 2(a)** • Naming 2D shapes circles, triangles, squares etc 80-81 • Triangles described by their sides 82 • Triangles described by their angles 83 • Naming and describing triangles fully 84 • The circle - drawing circles and patterns 85-86 **TJ 2(b)** • Properties of the square 97-98 • Properties of the rectangle 99-100 • Properties of the rhombus 101-102 • Properties of the kite 102-103 • Properties of the parallelogram 104-105	2.16b 3.16a	**TJ 2(a) Chapter 9** **TJ 2(b)** **Chapter 10**	**MW – Geometry and Measures** Topic 7, Target 2 Topic 12, Targets 3-5

Topic 15   3D shapes

Time	Benchmarks	CfE	Resources	Activities
5 Periods	**TJ 2(a)** • 3 dimensional shapes and their basic properties 160-163 • 3 dimensional shapes in the real world -recognise and describe 164 **TJ 2(b)** • Nets of cubes and cuboids 147-149 • Nets of triangular prisms and other shapes (cones, prisms etc) 150-151 • Skeletons of solids + practical work - straws, rolled up paper etc. 152-153		**TJ 2(a)** Chapter 16 **TJ 2(b)** Chapter 16	

BLOCK 4 ASSESSMENT