

Autumn 1: 33 lessons				
1 Chapter 1: Numbers to 1 000 000				
INSET day Q1E	INSET day school	Lesson 1: Reading & Writing Numbers to 100 000 To read and represent numbers to 100 000. <i>(NB: Revisit expectations for consolidation/ deepening tasks)</i>	Lesson 2: Reading & Writing Numbers to 1 000 000 To read and represent numbers to 1 000 000.	Lesson 3: Reading & Writing Numbers to 1 000 000 To read and represent numbers to 1 000 000 using number discs.
2 Chapter 1: Numbers to 1 000 000				
Lesson 4: Comparing Numbers to 1 000 000 To compare numbers to 1 000 000 using place value.	Lesson 5: Comparing Numbers to 1 000 000 To compare numbers to 1 000 000 using place value.	Lesson 6: Comparing Numbers to 1 000 000 To compare numbers to 1 000 000 using pictorial representations and proportionality.	Lesson 7: Comparing Numbers to 1 000 000 To compare numbers to 1 000 000 from pictorial representations, using lists and number lines.	Lesson 8: Making Number Patterns To make and identify patterns in numbers using knowledge of place value.
3 Chapter 1: Numbers to 1 000 000 (FF: including rounding to the nearest 10, 100, 1000)				
Lesson 9: Making Number Patterns To make number patterns that decrease in multiples of 10 000 or 100 000.	Lesson 10 over 2 days: Rounding Numbers to the Nearest 10 000 To round numbers to the nearest 10 000 using number lines & bar graphs.	Lesson 10 over 2 days: Rounding Numbers	Lesson 11 over 2 days: Rounding Numbers to the Nearest 100 000 To round numbers to the nearest 100 000 using number lines & bar graphs. <i>NB: follow up/ embed with factual fluency</i>	Lesson 11 over 2 days: Rounding Numbers
4 Chapter 1: Numbers to 1 000 000			Ch. 2: Whole Numbers: Addition & Subtraction	
Lesson 12: Rounding Numbers To round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited. <i>(NB: Model expectations for deepening tasks)</i>	Chapter 1 review and consolidation: To practise various concepts covered in the chapter.	Lesson 1: Counting On to Add To add using the 'counting on' strategy with concrete materials and number lines.	Lesson 2: Adding within 1 000 000 To add numbers within 1 000 000 using rounding.
5 Chapter 2: Whole Numbers: Addition and Subtraction (Factual fluency: including x/÷ by 10, 100, 1000)				
Lesson 3: Adding within 1 000 000 To add numbers within 1 000 000 using the column method of addition.	Lesson 4: Adding within 1 000 000 To consolidate and refine addition skills and place-value knowledge to solve addition problems.	Lesson 5: Counting Backwards to Subtract To subtract using the 'counting backwards' strategy with concrete materials.	Lesson 6: Subtracting within 1 000 000 To subtract using the column method and number discs using numbers to 1 000 000.	Lesson 7: Subtracting within 1 000 000 To subtract using the column method and number discs using numbers to 1 000 000.
6 Chapter 2: Whole Numbers: Addition and Subtraction (Factual fluency: including inverse operations)				
Lesson 8: Subtracting within 1 000 000 To subtract numbers to 100000 using the column method and number discs using numbers to 1000000	Lesson 9: Adding and Subtracting within 1 000 000 To use addition and subtraction to solve comparison problems with numbers to 1000000 <i>NB: language emphasis - difference, sum, total</i>	Lesson 10: Adding and Subtracting within 1 000 000 To consolidate and refine addition and subtraction skills and place-value knowledge to solve problems.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Chapter 2 review and consolidation: To practise various concepts covered in the chapter.
7 Chapter 3: Multiplication and Division (Factual fluency: including number sequences)				
Lesson 1: Finding Multiples To consolidate and review multiplication; to find the result of multiplying by a number.	Lesson 2: Finding Factors To consolidate and review multiplication; to find the numbers we can multiply by to get a number.	Lesson 3: Finding Common Factors To define and find common factors of numbers to 100.	ADDITIONAL LESSON: Consolidate multiples and factors	Lesson 4: Finding Prime Numbers To identify & name the prime numbers; to recognise prime numbers as numbers that only have 2 factors.
Half term break				

Autumn 2: 38 lessons				
1 Chapter 3: Multiplication and Division (Factual fluency: including rounding to the nearest 10, 100, 1000, etc)				
INSET day Q1E	Lesson 5: Finding Prime Numbers and Composite Numbers To define & determine prime numbers and composite numbers.	Lesson 6: Finding Square and Cube Numbers To create and determine square and cube numbers.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Lesson 7: Multiplying by 10, 100 and 1000 To multiply 1- and 2-digit numbers by 10, 100 and 1000.
2 Chapter 3: Multiplication and Division				
Lesson 8: Multiply 2-Digit & 3-Digit Numbers by 1 Digit To multiply 2- & 3-digit numbers by a 1-digit number using multiple strategies.	Lesson 9: Multiplying 4-Digit Numbers To multiply 4-digit numbers by single-digit numbers.	Lesson 10: Multiplying 4-Digit Numbers To multiply 4-digit numbers by single-digit numbers with regrouping, using a variety of strategies.	Lesson 11: Multiplying 4-Digit Numbers To multiply 4-digit numbers by single-digit numbers with regrouping, from ones, tens & hundreds, using multiple methods.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.
3 Chapter 3: Multiplication and Division (Factual fluency: including cube/square numbers)				
Lesson 12: Multiplying a 2-Digit Number by a 2-Digit Number To multiply 2-digit numbers by 2-digit numbers using multiple methods.	Lesson 13: Multiply 2-Digit Number by a 2-Digit Number To multiply 2-digit by 2-digit numbers using multiple methods, incl.grid method, no bonds & column method, with regrouping.	Lesson 14: Multiplying a 3-Digit Number by a 2-Digit Number To multiply a 3-digit by a 2-digit number, using grid method & column method as key strategies.	Lesson 15: Multiplying a 3-Digit Number by a 2-Digit Number To multiply a 3-digit by a 2-digit number, with regrouping using the column method as the key strategy.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.
4 Chapter 3: Multiplication and Division				
Lesson 16: Dividing by 10, 100 and 1000 To find thousands, hundreds and tens in a 4-digit number using concrete materials.	Lesson 17: Dividing without remainder To divide 3- and 4-digit numbers by 1-digit numbers using number bonds and long division as key methods.	Lesson 18: Dividing without remainder To divide 4-digit numbers by 1-digit numbers, using number bonds and long division as key methods.	Lesson 19: Dividing with Remainder To divide 3-digit by single-digit numbers using long division, short division and mental methods with remainders.	ADDITIONAL LESSON: Dividing without/ with remainder To divide 4-digit numbers by 1-digit numbers, using short division as key method.
5 Chapter 3: Multiplication and Division				
Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited	ADDITIONAL LESSON: Word problems using multiplication and/or division. (Could use Power Maths or old year 3/4 MNP)	AUTUMN TEST: arithmetic	AUTUMN TEST: reasoning	AUTUMN TEST: reasoning
6 Chapter 3: Multiplication and Division		Chapter 5: Graphs		
ADDITIONAL LESSON: Word problems using multiplication and/or division. (Could use Power Maths or old year 3/4 MNP)	Chapter 3 review and consolidation: To practise various concepts covered in the chapter.	Lesson 1: Reading Tables To read the information presented in a table and interpret its meaning.	Lesson 2: Reading Tables To read and respond to information presented in a table.	Lesson 3: Reading Tables To read and respond to tables with a variety of data sets.
7 Chapter 5: Graphs				
Lesson 4: Reading Line Graphs To read & interpret information provided in a line graph where a single line represents data.	Lesson 5: Reading Line Graphs To read & interpret the information presented in a line graph where the data is represented by more than 1 line.	Lesson 7: Reading Line Graphs To read & interpret info presented in table & turn it into a line graph; determine relationships between data sets.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Chapter 5 review and consolidation: To practise various concepts covered in the chapter.
8 Chapter 6: Fractions (NB: Additional lessons could be combined if time is needed)				
ADDITIONAL LESSON: Recap Yr 3 Fractions: Bk 3B old book, Ch 11, L 22: Finding Part of a Set To find a fraction of a whole number using multiplication and concrete objects.	ADDITIONAL LESSON: Recap Yr 3 Fractions: Bk 3B old book, Ch 11, L23: Finding the Fraction of a Number To consolidate finding the fraction of a whole number	ADDITIONAL LESSON: Fractions Recap year 4: Book 4A, Ch.6, Lesson 10: Adding Fractions To add fractions (simplest form).	ADDITIONAL LESSON: Fractions Recap year 4 Book 4A, Ch.6, Lesson 12: Subtracting Fractions To subtract fractions (equivalence).	Christmas break
Christmas break				

Spring 1: 24 lessons				
1 Chapter 6: Fractions <i>(Factual fluency: including converting simple equivalent fractions)</i>				
INSET day school	ADDITIONAL LESSON: Revisit simplifying fractions (year 4)	Lesson 1: Dividing to Make Fractions To divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers.	Lesson 2: Writing Improper Fractions and Mixed Numbers To write improper fractions and mixed numbers using a number line and pictorial methods.	Lesson 3: Finding Equivalent Fractions To find equivalent fractions using pictorial methods.
2 Chapter 6: Fractions <i>(Factual fluency: including adding and subtracting fractions with the same denominator)</i>				
Lesson 4: Comparing and Ordering Fractions To compare and order fractions using the pictorial method.	Lesson 5: Comparing and Ordering Fractions To compare and order improper fractions using the pictorial method.	Lesson 6: Comparing and Ordering Fractions To compare mixed nos. using pictorial; to find common denominators where one fraction is already common denominator for all.	Lesson 7: Making Number Pairs To make number pairs (number bonds) with fractions with different denominators.	Consolidation day: (If needed. Could be used later in Chapter 6) To be used if lessons take longer than expected or a topic needs to be revisited.
3 Chapter 6: Fractions				
Lesson 8: Adding Fractions To add unlike fractions by finding a common denominator using pictorial methods.	Lesson 9: Adding Fractions To add unlike fractions by finding a common denominator using pictorial methods.	Lesson 10: Adding Fractions To add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions.	Lesson 11: Adding Fractions To add unlike fractions which create improper fractions and mixed numbers that give rise to simplification.	Lesson 12: Subtracting Fractions To subtract fractions with different denominators; to subtract fractions from whole numbers.
4 Chapter 6: Fractions <i>(Factual fluency: including properties of 2D and 3D shapes)</i>				
Lesson 13: Subtracting Fractions To subtract fractions with denominators not the same; to use bar models for subtracting fractions.	Lesson 14: Subtracting Fractions To subtract fractions and mixed numbers from mixed numbers with different denominators.	Lesson 15: Multiplying Fractions by Whole Numbers by Proper Fractions To multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions.	Lesson 16: Multiplying Proper Fractions and Whole Numbers To multiply fractions by whole numbers where the product is an improper fraction or mixed number.	Lesson 17: Multiplying Mixed Numbers and Whole Numbers To multiply mixed numbers by whole numbers, creating larger mixed numbers.
5 Chapter 6: Fractions				
Lesson 18: Multiplying Mixed Numbers and Whole Numbers To multiply mixed numbers by whole numbers, in multi-step word problems.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	ADDITIONAL LESSON: Revisit fractions of amounts Reteach unit and non-unit fractions of amounts	Chapter 6 review and consolidation: To practise various concepts covered in the chapter.	Revision and Mid-year Tests (A) Review and Remediation
Half term break				

Spring 2: 29 lessons				
1 Test, review and remediation			Chapter 7: Decimals	
Revision and Mid-year Tests (A)	Revision and Mid-year Tests (A)	Revision and Mid-year Tests (A)	Lesson 1: Writing Decimals To write decimal numbers.	Lesson 2: Reading and Writing Decimals To read and write decimals.
Review and Remediation	Review and Remediation	Review and Remediation		
2 Chapter 7: Decimals (Factual fluency: including basic fractions of amounts)				
Lesson 3: Reading and Writing Decimals To read and write decimals.	Lesson 4: Comparing Decimals To compare tenths and hundredths written as decimals	Lesson 5: Comparing Decimals To order and compare decimals.	Lesson 6: Comparing Decimals To compare and order decimals of amounts.	Lesson 7: Writing Fractions as Decimals To write fractions as decimals.
3 Chapter 7: Decimals				
Lesson 8: Adding and Subtracting Decimals To add and subtract amounts in decimals.	Lesson 9: Adding and Subtracting Decimals To add and subtract decimals. To add and subtract amounts in pounds and pence.	Lesson 10: Adding and Subtracting Decimals To add and subtract amounts in pounds and pence.	Lesson 11: Adding and Subtracting Decimals To add and subtract decimals. To add and subtract amounts in pounds and pence.	Lesson 12: Adding and Subtracting Decimals To add and subtract decimals to find the smallest possible sum and difference.
4 Chapter 7: Decimals				
Lesson 13: Adding and Subtracting Decimals To add and subtract decimals. To find number pairs that add up to 1.	Lesson 14: Adding and Subtracting Decimals To add and subtract the perimeter of an object using decimals.	SPRING TEST: arithmetic	SPRING TEST: reasoning	SPRING TEST: reasoning
5 Chapter 7: Decimals (FF: rounding decimals to the nearest whole)			Chapter 8: Percentages	
Lesson 15: Rounding Decimals To round decimals to the nearest whole number. To round numbers to the nearest tenth.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Chapter 7 review and consolidation: To practise various concepts covered in the chapter.	Lesson 1: Writing Quantities To compare quantities. To compare fractions, decimals and percentages. To convert fractions to decimals and percentages.	Lesson 2: Finding Percentages To convert values of an amount into percentages. To convert fractions into percentages.
6 Chapter 8: Percentages (Factual fluency: rounding to 1DP)				
Lesson 3: Finding Percentages To convert values of an amount into percentages. To convert fractions into percentages.	ADDITIONAL LESSON: Percentages (Could use Power Maths book or SATs arithmetic style questions)	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited NB: Chapter 8 review on summer term INSET days	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited	Easter break
Easter break				

Summer 1: 28 or 29 lessons (check INSET)				
1 Chapter 9: Geometry (Factual fluency: including 10%/1% of simple amounts)				
<p>INSET day school: Belleville, Belleville Wix, The Alton</p> <p>Churchfields: Revisit percentages and complete Chapter 8 review and consolidation</p>	<p>Lesson 1: Types of Angles To know the names and qualities of acute, right, obtuse and reflex angles.</p>	<p>Lesson 2: Measuring Angles (over 2 days) To measure angles using a protractor.</p>	<p>Lesson 2: Measuring Angles (over 2 days)</p>	<p>Lesson 3: Measuring Angles at a Point (over 2 days) To draw, measure and add angles using a protractor.</p>
2 Chapter 9: Geometry				
<p>Lesson 3: Measuring Angles at a Point (over 2 days, if needed)</p>	<p>Lesson 4: Finding Angles at a Point on a Straight Line To understand that angles at a point on a straight line always sum to 180°.</p>	<p>Lesson 5: Find Angles around a Point To understand that angles around a point always sum to 360°.</p>	<p>Lesson 6: Drawing Lines and Acute Angles To draw angles using a protractor.</p>	<p>Lesson 7: Drawing Lines and Obtuse Angles To draw angles using a protractor.</p>
3 Chapter 9: Geometry (Factual fluency: including equivalent fractions)				
<p>Lesson 8: Describing Squares and Rectangles To describe the sides and angles of both rectangles and squares.</p>	<p>Lesson 9: Angles Inside Quadrilaterals To investigate the angles of various quadrilaterals, including squares and rectangles.</p>	<p>Lesson 10: Solving Problems Involving Angles in Quadrilaterals To solve problems involving angles in rectangles.</p>	<p>Lesson 12: Regular and Irregular Polygons To investigate regular polygons.</p>	<p>Chapter 9 review and consolidation: To practise various concepts covered in the chapter.</p>
4 Chapter 10: Position and Movement (Factual fluency: including reading co-ordinates)				
<p>May Bank holiday</p>	<p>Lesson 1: Naming and Plotting Points To name and plot points.</p>	<p>Lesson 2: Describing Translations To describe the position of a shape following a translation.</p>	<p>Lesson 3: Describing Reflections To describe movements and reflecting shapes.</p>	<p>Lesson 4: Describing Reflections To describe the movement of a 2-D shape when reflected.</p>
5 Chapter 10: Position & Movement		Chapter 11: Measurements (FF: including fractions of amounts)		
<p>Lesson 5: Describing Successive Reflections To reflect a shape more than once. (If time)</p>	<p>Chapter 10 review and consolidation: To practise various concepts covered in the chapter.</p>	<p>ADDITIONAL LESSON: Revisit formal fractions, decimals and/or percentages. (according to class needs)</p>	<p>Lesson 1: Converting Units of Length To convert units of length.</p>	<p>Lesson 2: Converting Units of Length To convert units of length, including centimetres and metres.</p>
6 Chapter 11: Measurements (Factual fluency: including fractions of amounts)				
<p>Lesson 3: Converting Units of Length To convert units of length.</p>	<p>Lesson 4: Converting Units of Mass To convert units of mass.</p>	<p>Lesson 5: Converting Volume To convert litres and millilitres.</p>	<p>Lesson 6: Converting Metric and Imperial Units of Measure To convert Imperial and metric units of measure.</p>	<p>Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited. (If needed)</p>
Break for half term Homework:				

Summer 2: 37 or 38 lessons (check INSET)				
1 Chapter 11: Measurements (Factual fluency: include fractions/percentage of amounts)				
INSET day school: Churchfields Belleville, Belleville Wix, The Alton: Revisit percentages and complete Chapter 8 review and consolidation	Lesson 7: Solving Word Problems Length, mass and volume	Lesson 8: Solving Word Problems Time	Lesson 9: Reading Temperature To read the temperature on a thermometer.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.
2 Chapter 12: Area and Perimeter (Factual fluency: include converting between fractions, decimals, and percentages)				
Chapter 11 review and consolidation: To practise various concepts covered in the chapter.	Lesson 1: Finding the Perimeter To find the perimeter of shapes.	Lesson 2: Measuring the Area To measure the area of squares.	Lesson 3: Finding the Perimeter of Composite Shapes To find the perimeter of different shapes.	Lesson 4: Measuring the Area of Composite Shapes To measure the area of a shape.
3 (Factual fluency: including rounding measures/ money))				
Revision of formal methods, as appropriate to class (including decimal amounts, where appropriate)	Revision according to class need.	SUMMER TEST: arithmetic	SUMMER TEST: reasoning	SUMMER TEST: reasoning
4 Chapter 12: Area and Perimeter			Chapter 13: Volume	
Lesson 5 : Estimating Area and Drawing to Scale To be able to estimate the area of irregular shapes drawn on a grid.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Chapter 12 review and consolidation To practise various concepts covered in the chapter.	Lesson 1: Understanding the Volume of Solids To understand the volume of solids.	Lesson 2: Finding the Volume of Solids in Cubic Units To find the volume of solids.
5 Chapter 13: Volume (Factual fluency: include Roman numerals to 100)				
Lesson 3: Finding the Capacity of Cuboids To be able to calculate the volume of cuboids as length × breadth × height.	Lesson 4: Finding the Volume of Liquids To be able to calculate the capacity of a container in metric units.	Lesson 5: Solving Word Problems Involving Volume To solve word problems involving volume.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Chapter 13 review and consolidation To practise various concepts covered in the chapter.
6 Chapter 14: Roman Numerals				
Lesson 1: Writing Roman Numerals to 1000 To write Roman numerals to 1000.	Lesson 2: Writing Years in Roman Numerals To write numbers in their thousands in Roman numerals.	Chapter 14 review and consolidation To practise various concepts covered in the chapter.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.	Consolidation day: To be used if lessons take longer than expected or a topic needs to be revisited.
7 Test, review and remediate				
Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation
8 Test, review and remediate				
Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation	Revision and Mid-year Tests (B) Review and Remediation	Summer break	
Summer break				