

Autumn term 2021-22					
1 Chapter 1: Numbers to 10 Million					
Recap year 5 Book 5A, Ch.1, Lesson 12: Rounding Numbers To round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.	Lesson 1: Reading and Writing Numbers to 10 Million To create and identify numbers to 10 000 000; to write in numerals and words numbers to 10 000 000.	Lesson 2: Reading and Writing Numbers to 10 Million To construct and record numbers to 10 000 000; to recognise the value of digits to 10 000 000.	Lesson 3: Reading and Writing Numbers to 10 Million To recognise & construct nos to 10 000 000 using abacus; to recog. value of digits in numbers to 10 000 000 & write numbers numerals & words.	Lesson 4: Comparing Numbers to 10 Million To compare numbers to 10 000 000 using place value.	Lesson 5: Comparing and Ordering Numbers to 10 Million To compare & order numbers to 10 000 000; to create combinations of numbers using a fixed number of digits.
2 Chapter 1: Numbers to 1 000 000			Chapter 2: Four operations of whole numbers		
Lesson 6: Rounding Numbers To round numbers to 10 000 000 to the nearest million, hundred thousand and ten thousand.	Lesson 7: Rounding Numbers To round numbers to the nearest appropriate number up to and including millions; to determine when rounding is appropriate and to which value.	ADDITIONAL LESSON: Embed rounding to nearest 10, 100, 100, 10,000, etc	Recap year 5 Book 5A, Chapter 2: Whole Numbers: Addition and Subtraction Lesson 5: Adding within 1 000 000 To add numbers within 1 000 000 using the column method	Recap year 5 Book 5A, Lesson 9: Subtracting within 1 000 000 To subtract numbers to 1 000 000 using concrete materials, the column method and number bonds.	Recap year 5 Book 5A, Chapter 3: Lesson 9: Multiplying 4-Digit Numbers To multiply 4-digit numbers by single-digit numbers.
3 Chapter 2: Four operations of whole numbers					
Recap year 5 Book 5A, Chapter 3: Lesson 10: Multiplying 4-Digit Numbers To multiply 4-digit numbers by single-digit numbers with regrouping, using a variety of strategies	Recap year 5 Book 5A, Chapter 3: 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 key strategy.	Recap year 5 Book 5A, Chapter 3: Lesson 17 OR 18: Dividing 3-Digit and 4-Digit Numbers To divide 3- and 4-digit numbers by 1-digit numbers using number bonds and long division as the key methods.	Recap year 5 Book 5A, Chapter 3: Lesson 19: Dividing with Remainder To divide 3-digit numbers by single-digit numbers using long division, short division and mental methods that gives rise to remainders.	ADDITIONAL LESSON: (if needed) Embed formal multiplication and division methods	Lesson 1: Using Mixed Operations To use multiple operations and create expressions from a picture; to use the order of operations to solve expressions.
4 Chapter 2: Four operations of whole numbers					
Lesson 2: Using Mixed Operations To create and solve expressions using the four operations.	Lesson 3: Multiplying by Two-Digit Numbers To multiply numbers by multiples of 10; to use number bonds as a key strategy in multiplication.	Lesson 4: Multiplying by Two-Digit Numbers To multiply 3- & 4-digit numbers by 2-digit numbers without regrouping or renaming; to use number bonds & column method	Lesson 5: Multiplying by Two-Digit Numbers To multiply 3- and 4-digit numbers by 2-digit numbers without regrouping or renaming; to use both number bonds & column method	Lesson 6: Multiplying by Two-Digit Numbers To multiply 3- & 4-digit numbers by 2-digit numbers with regrouping & renaming; to use number bonds & pattern recognition for multiplication.	Lesson 7: Multiplying by Two-Digit Numbers To multiply 3- and 4-digit numbers by 2-digit numbers with regrouping and renaming; to use number bonds and the column method
5 Chapter 2: Four operations of whole numbers					
Lesson 8: Estimating Products of Large Number To estimate products of multiplying 3- & 4-digit numbers by 2-digit; to use multiplication to create specific products.	Lesson 9: Dividing by Two-Digit Numbers To divide 3-digit by 2-digit numbers; to use number bonds, long division & bar models to facilitate division by 2-digit numbers.	Lesson 10: Dividing by Two-Digit Numbers To divide 4-digit numbers by 2-digit numbers; to use number bonds and long division as the key strategies.	Lesson 11: Dividing by Two-Digit Numbers To divide 4-digit numbers by 2-digit numbers using a variety of methods; to use no. bonds, long & short division as methods.	Lesson 12: Dividing by Two-Digit Numbers To divide 3-digit by 2-digit numbers giving rise to remainders; to use number bonds, long & short division as key to solve division problems.	Lesson 13: Dividing by Two-Digit Numbers To divide 4-digit numbers by 2-digit numbers with a remainder; to represent the remainder as part of a whole decimal
6 Chapter 2: Four operations of whole numbers					
ADDITIONAL LESSON: (if needed) Embed formal methods	ADDITIONAL LESSON: (if needed) Embed formal methods	Lesson 17: Finding Common Multiples To find common multiples in real-life; use common multiples with knowledge of time.	Lesson 18: Finding Common Multiples To use common multiples to solve problems; to organise thinking into tables and lists.	Lesson 19: Finding Common Factors To find the largest common factor of 3-digit numbers; to use $\times \div$ division for common factor.	Lesson 21: Finding Prime Numbers To use prime nos. to create other numbers; to explore prime numbers > 100
7 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
ADDITIONAL LESSON: (if needed) Embed multiples, factors & prime nos.	Recap year 5: Book 5A, Chapter 3: Lesson 6: Finding Square and Cube Numbers To be able to create and determine square and cube numbers.	REVIEW: Chapter 1	ADDITIONAL LESSON: Year 4: Ch.6: Lesson 3: Show Mixed Nos. on a Number Line To show mixed number fractions on a number line.	ADDITIONAL LESSON: Year 4: Ch.6: Lesson 5: Find Equivalent Fractions To find equivalent fractions.	ADDITIONAL LESSON: Year 4: Ch.6: Lesson 7: Simplify Improper Fractions To simplify improper fractions.
Half term break					

8 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
ADDITIONAL LESSON: Recap Year 4: Ch.6: Lesson 9: Adding Fractions To add fractions (recording answers as mixed number).	Recap year 4 Book 4A, Chapter 6: Lesson 10: Adding Fractions To add fractions with the same denominator (simplest form).	Recap year 4 Book 4A, Chapter 6: Lesson 12: Subtracting Fractions To subtract fractions (equivalence).	Recap fractions of amounts reinforcing 'of' means multiply eg. $\frac{3}{4}$ of ..., $\frac{1}{8}$ of... <i>Could use Oak Academy lesson and resources (see home learning link)</i>	Recap fractions of amounts reinforcing 'of' means multiply eg. $\frac{3}{4}$ of ..., $\frac{1}{8}$ of ...	Recap year 5 Book 5A, Chapter 6: Lesson 3: Finding Equivalent Fractions To find equivalent fractions using pictorial methods.
9 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
Recap year 5 Book 5A, Chapter 6: Lesson 6: Compare and Order Fractions To compare mixed numbers using pictorial; to find common denominator (one fraction common for all).	Recap year 5 Book 5A, Chapter 6: Lesson 11: Adding Fractions To add unlike fractions which create improper fractions and mixed numbers to simplify.	Recap year 5 Book 5A, Chapter 6: Lesson 14: Subtracting Fractions To subtract fractions & mixed numbers from mixed numbers (different denominators).	ADDITIONAL LESSON: Recap year 5: Chapter 6: Lesson 17: Multiplying Mixed Numbers To multiply mixed numbers by whole numbers, creating larger mixed numbers.	SATS 2016 paper	SATS 2016 paper
10 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
SATS 2016 paper	Lesson 1: Simplifying Fractions To use concrete materials to simplify fractions; to recognise equivalence in fractions to $\frac{1}{4}$.	Lesson 2: Simplify Fractions To simplify fractions using division & common factors; to represent fractions using concrete material & pictorial.	Lesson 3: Comparing and Ordering Fractions To compare fractions and place them in order from smallest to largest.	Lesson 4: Comparing and Ordering Fractions To compare and order fractions by finding common denominators.	Lesson 5: Comparing and Ordering Fractions To compare and order fractions using common factors.
11 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
Lesson 6: Adding and Subtracting Fractions Add & subtract fractions different denominators; using pictorial to compare fractions and add/subtract.	Lesson 7: Adding and Subtracting Fractions To add & subtract fractions with different denominators; to develop questions and word problems.	Lesson 8: Adding and Subtracting Fractions To add and subtract fractions with different denominators.	Lesson 9: Adding and Subtracting Fractions To add & subtract mixed numbers, including fractions different denominators; to subtract from the whole and add the remainder back.	Lesson 10: Adding and Subtracting Fractions To add and subtract fractions with different denominators; to add and subtract mixed numbers.	Lesson 11: Multiplying Fractions To multiply fractions using pictorial representations and abstract methods.
12 Chapter 3: Fractions (Year 4 & Year 5: HL 2019-21: FRACTIONS)					
Lesson 12: Multiplying Fractions To determine if the commutative law applies to fractions; to multiply fractions using concrete and pictorial.	Lesson 13: Multiplying Fractions To use concrete to understand & solve the multip'n of fractions; to simplify equations using pattern blocks.	Lesson 14: Dividing a Fraction by a Whole Number To divide a fraction by a whole number; to use pictorial to divide whole numbers into fractions.	Lesson 15: Dividing a Fraction by a Whole Number To divide fractions by whole nos. using concrete & pictorial; to divide fractions (when numerator & divisor not easily divisible).	Lesson 16: Dividing a Fraction by a Whole Number To divide fractions by a whole number; to use pictorial to support division.	REVIEW: Chapter 3
13 Chapter 4: Decimals (Year 4 & Year 5: HL 2019-21: DECIMALS)					
ADDITIONAL LESSON: (if needed) Embed fractions	ADDITIONAL LESSON: (if needed) Embed fractions	ADDITIONAL LESSON: R2P: 6F-3: Compare fractions w/ different denominators incl. fractions greater than 1, using reasoning & choose between common denomination as a comparison strategy.	ADDITIONAL LESSON: Recap Year 4: Ch. 9: Lesson 11: Compare & Order Decimals To compare and order decimal numbers.	ADDITIONAL LESSON: Recap Year 4: Ch. 9: Lesson 14: Rounding Decimals To round decimal numbers.	ADDITIONAL LESSON: Recap year 5: Book 5B, Chapter 7: Lesson 6: Comparing Decimals To compare & order decimals of amounts.
14 Chapter 4: Decimals (Year 4 & Year 5: HL 2019-21: DECIMALS)					
Recap year 5 Book 5B, Chapter 7: Lesson 7: Writing Fractions as Decimals To write fractions as decimals.	Lesson 1: Writing and Reading Decimals To read & write decimals to thousandths; to use concrete materials to represent decimals.	Catch up time	Catch up time	Catch up time	Catch up time
Christmas holiday break					

1 Spring term 1 2021-22					
Bank Holiday	INSET day	Decimals (DECIMALS: Year 4 & Year 5: HL 2019-21)			
		ADDITIONAL LESSON: Year 4: Book 4B, Chapter 8, Lesson 8: Writing Decimals To write decimal numbers.	ADDITIONAL LESSON: Year 4: Book 4B, Chapter 8: Lesson 11: Compare & Order Decimals To compare and order decimal numbers.	ADDITIONAL LESSON: Year 4: Book 4B: Chapter 8: Lesson 14: Rounding Decimals To round decimal numbers.	ADDITIONAL LESSON: Year 4: Book 4B, Chapter 8: Combine lessons 16 & 17: Dividing by 10 and 100
2 Decimals (DECIMALS: Year 4 & Year 5: HL 2019-21)					Ch 4: Decimals
ADDITIONAL LESSON: Year 5: Book 5B, Chapter 7: Lesson 3: Reading & Writing Decimals To be able to read and write decimals.	ADDITIONAL LESSON: Year 5: Book 5B, Chapter 7: Lesson 7: Writing Fractions as Decimals To write fractions as decimals.	ADDITIONAL LESSON: Year 5: Book 5B, Chapter 7: Lesson 10: Adding and Subtracting Decimals To be able to add and subtract amounts in pounds and pence.	ADDITIONAL LESSON: Year 5: Book 5B, Chapter 7: Lesson 14: Adding and Subtracting Decimals To add & subtract the perimeter of an object using decimals.	ADDITIONAL LESSON: Year 5: Book 5B, Chapter 7: Lesson 15: Rounding Decimals To round decimals to the nearest whole number. To round numbers to the nearest tenth.	Lesson 1: Writing and Reading Decimals To read & write decimals to thousandths; to use concrete materials to represent decimals.
Add to existing factual fluency this week: Rounding, including decimals to 1 and 2 dp					
3 Chapter 4: Decimals (DECIMALS: Year 4 & Year 5: HL 2019-21)			Chapter 5: Measurements		
Lesson 2: Dividing Whole Numbers To divide whole numbers by larger whole numbers; to use Dienes to represent 1/10s, 1/100s & 1/1000s.	Lesson 3: Dividing Whole Numbers To divide whole numbers making decimals; long division calculate equivalents. METHOD 2	Lesson 5: Lesson 5: Writing Fractions as Decimals To write fractions as decimals; to use long division as the key strategy	Combine Lessons 6 & 7: Multiplying Decimals To multiply whole nos including decimal by whole numbers; to use partitioning & worded method.	Lesson 8: Multiplying Decimals To multiply decimals by whole numbers including regrouping and renaming. (Use L9 as deepening)	Lesson 10: Dividing Decimals To divide decimals using number bonds and number discs as the key strategies. (Method 2)
Add to existing factual fluency this week: Multiplying and dividing by 10, 100, 1000, including decimal amounts					
4 Chapter 4: Decimals (DECIMALS: Year 4 & Year 5: HL 2019-21)			Chapter 5: Measurements		
Lesson 11: Dividing Decimals To divide decimals using bar models, number bonds and long division as key strategies, including regrouping and renaming.	Lesson 12: Multiplying a Decimal by a 2-Digit Whole Number To multiply decimals by a 2-digit whole number using number discs and the column method.	Lesson 13: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit numbers using number bonds and the worded method.	Lesson 14: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit whole numbers using number bonds and the worded method.	Lesson 1: Converting Units of Length To convert common measurements to metres, centimetres and millimetres.	Lesson 2: Converting Units of Length To convert units of measure into different units; to use knowledge of decimals and fractions to convert.
Add to existing factual fluency this week: Converting between units of measure					
5 Chapter 5: Measurements			Chapter 7: Percentage (HL: 2020-2012)		
Lesson 3: Converting Units of Length To convert metres into kilometres as units of measure.	Lesson 4: Converting Units of Mass To convert units of mass from grams to kilograms using decimals and fractions.	Lesson 5: Converting Units of Volume To convert units of volume from millilitres to litres.	ADDITIONAL LESSON: Measures: Problem solving with time (P.72, Power Maths Practice Book C, Pearson)	ADDITIONAL LESSON: Year 5 percentages: Bk 5B, Chapter 8, Lesson 2: Finding Percentages To be able to convert values of an amount into %. To be able to convert fractions into percentages.	ADDITIONAL LESSON: Year 5 percentages: Bk 5B, Chapter 8, Lesson 3: Finding Percentages To convert values of an amount into percentages & convert fractions into percentages.
Add to existing factual fluency this week: Addition and subtraction of fractions with same and different denominators (basic)					
6 Chapter 7: Percentage (HL: 2020-2012)					
Lesson 1: Finding the Percentage of a Number To find the % of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating %.	Lesson 2: Finding the Percentage of a Quantity To find the % of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage.	Lesson 3: Finding Percentage Change To find % change in an amount over time; to calculate % change where the number gives rise to a decimal. (Use L4 to deepen)	Problem solving with percentages: Power Maths Practice Book C, p.66	Catch up	Catch up
Add to existing factual fluency this week: Durations of time, reading time from a timetable					

Spring 2 2021-22					
1 Percentage					
Chapter 8: Ratio					
ADDITIONAL LESSON: Fractions, decimals and equivalence problems Power Maths, Book 6B, Pearson p50	Lesson 2 and 3: Comparing Quantities To find ratio of a quantity; to simplify ratios using division; compare more than two quantities using the term 'ratio'; to use bar models.	Lesson 4: Comparing Quantities To compare quantity using both fractions and ratios; to use bar model diagrams to represent ratios.	Lesson 6: Comparing Numbers To compare numbers using ratios; to make decisions about simplifying ratios using division	ADDITIONAL LESSON: Problem solving using scaling and ratio: Power Maths Practice Book C, p.69	30 minutes: Arithmetic practice Fluent in 5 30 minutes: Revisit multiplication & division (P.54-56, Practice book C Power Maths. HA: MNP Ch.6, word problems)
Add to existing factual fluency this week: Fractions/percentages of amounts					
2 Chapter 9: Algebra					
Lesson 2: Describing a Pattern To generate & describe number patterns. (Could also do wksht 3)	Lesson 5: Writing Algebraic Expressions To express a missing no. algebraically. (Cld also do wksht L4)	Lesson 10: Solving Equations To solve equations; to use equations to find unknown values.	Arithmetic practice Fluent in 5 Achieve 100+ p35 Algebra – pairs	SATs arithmetic paper 2019	SATs paper 2019
Add to existing factual fluency this week: Fractions of amounts, decimal/fraction equivalents (incl. 0.25, 0.5 and 0.75)/percentage					
3 Chapter 10: Area & perimeter					
SATs paper 2019	Recap year 5 area & perimeter: Combine Lessons 1 and 6: Bk 5B, Chapter 12, Lesson 1: Finding the Perimeter To find the perimeter. Lesson 6: Measuring the Area To measure area of squares.	Lesson 1: Finding the Area & the Perimeter of Rectangles To find area & perimeter of rectangles; calculate perimeter using known area and vice versa.	Recap year 5 area and perimeter: Bk 5B, Chapter 12, Lesson 7: Measuring the Area To measure the area of a shape. (Measuring area of compound shapes)	Lesson 2: Finding the Area of Parallelograms To find & calculate area of a parallelogram; to use concrete & prior understanding of area to construct a formula for the area.	Lesson 3: Finding the Area of Triangles To use prior knowledge of area to find & solve area of a triangle; to use formula for area of a rectangle to solve problems involving triangles.
Add to existing factual fluency this week: common factors/multiples/squared & cubed numbers/prime numbers					
4 Chapter 10: Area and Perimeter					
Lesson 4: Finding the Area of Triangles To calculate the area of a triangle using a formula; to calculate the area of a triangle in multiple ways.	30 minutes: Arithmetic practice Fluent in 5 Week 7 30 minutes: Revisit fractions: four operations as needed by class	Lesson 1 and 2: Finding the Volume of Cubes and Cuboids To find the volume of cubes and cuboids using materials. To determine formula for volume of cubes & cuboids & apply it to calculate the volume of shapes.	Lesson 4: Finding the Volume of Cubes and Cuboids To calculate the volume of boxes using the formula for volume of a cube; to expose common misconceptions in volume through a 3-box arrangement.	Recap Year 5 volume: Bk 5B, Chapter 13, Lesson 6: Converting Units of Volume To compare and convert units of volume.	Ch 12: Geometry 30 minutes: Arithmetic practice Fluent in 5 30 mins: Recap Yr 5 geometry: Bk 5B, Chapter 9, Lesson 1: Knowing Types of Angles To know qualities & name angles: right/acute/obtuse/reflex
Add to existing factual fluency this week: Compare different units of the same measure, including decimal amounts(use < and > symbols)					
5 Chapter 12: Geometry					
Recap Year 5 geometry: Bk 5B, Chapter 9, Lesson 2: Measuring Angles To measure angles using a protractor.	Lesson 1: Investigating Vertically Opposite Angles To investigate opposite angles; to solve problems with prior angles knowledge.	Lesson 3: Investigating Angles in Triangles To determine and show the sum of the angles inside a triangle.	Lesson 4: Investigating Angles in Quadrilaterals To investigate & find angles in quads. <i>Deepening: use Lesson 5: Solving Problems</i>	Recap Year 5 geometry: Bk 5B, Chapter 9, Lesson 5: Investigating Angles at a Point To investigate angles that combined, make 360°	Lesson 6: Naming Parts of a Circle To name circle parts to calculate diameter & radius using circle.
Add to existing factual fluency this week: Reading info from a Venn diagram and Carroll diagram					
6 Chapter 12: Geometry					
Lesson 7: Solving Problems Involving Angles in a Circle To solve angles in circle problems.	Lesson 8: Drawing Quadrilaterals To draw quadrilaterals with specific side lengths & parallel lines; to find perimeter of shapes & name trapeziums and parallelograms	Lesson 9 and 10: Drawing Triangles To draw triangles using measurements and angles as starting point; protractor to draw angles.	Catch up	Catch up	Catch up
Easter Break					