6.1	Fluency Focus	NC Outcomes	Remember	Know	Mathematics Guidance: KS2 (June 2020) Ready-to-progress criteria
1	All times tables, number bonds and y5 and below arithmetic	Recap week – all Y5 Ready to Progress criteria – assessments to be made to inform future planning so **MTP is flexible and can change**	See Ready to Progress criteria page 208 – 211		
2	All times tables, number bonds and y5 and below arithmetic	Read, write, order and compare numbers up to: • 10,000 • 100,000 • 1,000,000 • 10,000,000	Read, write, order and compare numbers up to: • 10,000 • 100,000 • 1,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit, and solve number and practical problems that involve the above	NPV2 - Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.
3	All times tables, number bonds, y5 and below arithmetic and week 2 concepts	Round to: • 10, 100 and 1000 • Any degree of accuracy excluding decimals Calculate with negative numbers Use negative numbers in context	Round to: • 10, 100 and 1000 Understanding negative number system	Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across 0 Solve number and practical problems that involve the above	NPV3 - reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.
4	All times tables, number bonds, y5 and below arithmetic, and week 2-3 concepts	Add and subtract whole numbers with up to 4 digits Add and subtract whole numbers with more than 4 digits Using the inverse within addition and subtraction Multi-step addition and subtraction problems	All number bonds Add and subtract whole numbers with up to 4 digits Add and subtract whole numbers with more than 4 digits Using the inverse within addition and subtraction Multi-step addition and subtraction problems	Perform mental calculations, including with mixed operations and large numbers Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	

5	All times tables, number bonds, y5 and below arithmetic and week 2-4 concepts	Multiply: • Up to 4 digits by 1 digit • Up to 4 digits by 2 digits • The above in context	All times tables Multiply: • Up to 4 digits by 1 digit • Up to 4 digits by 2 digits	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication, and solve problems involving multiplication	
6	All times tables, number bonds, y5 and below arithmetic and week 2-5 concepts	Divide: • Up to 4 digits by 1 digit • Up to 4 digits by 2 digits • With remainders • The above in context, choosing to round as appropriate for the context	All times tables Divide: • Up to 4 digits by 1 digit • With remainders	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	
7	All times tables, number bonds, y5 and below arithmetic and week 2-6 concepts	Identify factors and multiples, including common factors and common multiples Identify prime numbers up to 100 and reason why a number is / is not prime Calculate squares, cubes and square roots Use the order of operations Reason from known facts	All number bonds, times tables and place value knowledge Identification of factors and multiples	Identify common factors, common multiples and prime numbers Use their knowledge of the order of operations to carry out calculations involving the 4 operations	6ASMD2 - Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.

8	All times tables, number bonds, y5 and below arithmetic, y6 4 operations			Recap: LO: Know how to find equivalent fractions LO: Know how to convert mixed to improper and vice versa LO: Know how to add and subtract fractions with like and similar denominators LO: Know how to multiply fractions by whole numbers LO: Know how to calculate fractions of amounts	F1, F2, F3
9	All times tables, number bonds, y5 and below arithmetic, y6 4 operations, and week 1	use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	compare and order fractions whose denominators are all multiples of the same number add and subtract fractions with the same denominator and multiples of the same number / recognise mixed numbers fractions and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	LO: Know how to simplify fractions LO: Know how to place fractions on a number line LO: Know how to compare and order fractions when you make the denominators the same LO: Know how to compare and order fractions when you make the numerator the same LO: Know how to add and subtract fractions with unlike denominators	F1, F2, F3

10	All times tables, number bonds, y5 and below arithmetic, y6 4 operations, and week 1-2 concepts	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form divide proper fractions by whole numbers	add and subtract fractions with the same denominator and multiples of the same number / recognise mixed numbers fractions and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	LO: Know how to add and subtract mixed numbers with unlike denominators LO: Know how to solve mixed addition and subtraction of fractions problems LO: Know how to multiply and divide fractions and mixed numbers by integers LO: Know how to multiply fractions and mixed numbers by fractions LO: Know how to solve mixed operation fraction calculations	F1, F2, F3
11	All times tables, number bonds, y5 and below arithmetic, y6 4 operations, and week 1-3 concepts	•		LO: Know how to find the whole when provided with one or more parts Consolidation and assessment	F1, F2, F3
12	All times tables, number bonds, y5 and below arithmetic, y6 4 operations, and week 1-4 concepts	**Time for consolidation and assessment**			