Year 5

Addition and Subtraction

Recall	Mental Calculation Skills - using jottings/methods where required	Methods or Strategies
Add and subtract decimals (1dp). E.g. 2.6 - 1.8	Add and subtract 3-digit numbers and 2-digit numbers. 456 - 77	Reorder numbers to add
doubles and halves of decimals (1dp). E.g. Half and double of 1.6	Add and subtract near multiples of 10, 100 and 1000	Partition numbers to bridge through 10, 100 or 1000
numbers bonds to multiples of 1000	find the difference between two numbers across 100. E.g. 505 - 488	Partition and recombine numbers
add to decimals to make next whole number (1dp). 5.6 + ? = 6		Use of numberbonds to 10, 100 or 1000
subtract decimals from whole numbers. E.g. 7 - 5.5		Partition to count on or back
Add to fractions to make wholes		Adding and subtracting by adjusting
subtract fractions from 1s. E.g. 5 - 3/5		Using related facts
scaling problems. E.g. 0.04 + 0,02		Counting up when subtracting near numbers
		Count through 60 minutes of analogue and digital times by partitioning.

Multiplication and Division

Recall	Mental Calculation Skills - using jottings/methods where required	Methods or Strategies
Multiplication facts up to 12 x 12	Multiply and divide 2-digit numbers by 4 and 8	multiply or divide by 4 or 8 by repeated halving or doubling
Factor Pairs to 100	multiply by 5	multiply by 5 by multiplying by 10 and halving
Percentage and Fraction equivalents for halves, quarters, three quarters, tenths and hundredths	multiply by a multiple of 10 (less than 100)	multiply by 20, by doubling and multiply by 10 (and other multiples of 10)
count in 25s and 50s	Multiply and divide whole numbers by 10, 100 and 1000 including converting measurements	understand that numbers move in place value when multiying or dividing by a power of 10
Multiply pairs of multiples of 10 together. E.g. 70 x 20	find 50%, 25%, 10% and 1% of a whole number	understand that percentage is out of 100
multiply 10s, 100s and 1000s by a single digit. E.g. 7000 x 2	Find prime numbers up to 50	
divide 100 and 1000 by 2, 4, 5 and 10	find lowest common multiples	
scaling problems. E.g. 0.04 x 2	find highest common factors	

Year 6

Addition and Subtraction

Recall	Mental Calculation Skills - using jottings/methods where required	Methods or Strategies
Numberbonds to multiples of 10, 100, 1000s, tenths and whole numbers	add and subtract decimals with varying decimal places	Reorder numbers to add
Add to decimals to make wholes (2dp)	add and subtract decimals that are nearly whole numbers	Partition numbers to bridge through 10, 100 or 1000
Subtract decimals from wholes (2dp)	Find the difference between to close decimals	Partition and recombine numbers
		Use of numberbonds to 10, 100 or 1000
		Partition to count on or back
		Adding and subtracting by adjusting
		Using related facts
		Counting up when subtracting near numbers
		Count through 60 minutes of analogue times by partitioning.

Multiplication and Division

Recall	Mental Calculation Skills - using jottings/methods where required	Methods or Strategies
Multiplication facts up to 12 x 12	half whole odd numbers	stand that numbers move in place value when multiying or dividing by a powe
Factor Pairs to 100	Divide multiples of 100 by a multiple of 10 or 100 (no decimal answers) e.g. 600 ÷ 30	understand that percentage is out of 100
Percentage and Fraction equivalents for halves, quarters, three quarters, tenths, hundredths and thousandths	Multiply and divide decimals by whole numbers. E.g. 0.7 x 7	
count in 25s and 50s	find multiples of 10 in percentages. E.g. 60% of 400	
Multiply pairs of multiples of 10 together (e.g. 70 x 20)	find multiples of 1 in percentages. E.g. 6% of 400	
multiply 10s, 100s and 1000s by a single digit (7000 x 2)	Ratio and proportion questions. E.g. 4 rulers cost 48p. How many do 8 cost?	
multiply and divide whole numbers by powers of 10	Simplify fractions	
Divide powers of 10 into 2, 4, 5 and 10 equal parts		