Year 5 – Autumn Term Week	Objective (+20-30 minutes of revision daily always including times tables)
1 (abacus week 1)	• Read and write 5 digit numbers eg 34091 • Partition 5 digit numbers • Count on/back in 1000s,100s,10s and 1s – from 4 digit numbers then 5 digit numbers • Solve maths stories involving adding and subtracting 1 or 10 or 100 1000 from 4 digit and 5 digit numbers • Compare and order 4 and 5 digit numbers by looking at the value of each digit in columns • < and > • Problem solving related to place value eg adding 2 numbers together where 2 digits change • Meaningful contexts eg populations of cities
2 (abacus week 2)	• Add and subtract 2 and 3 digit numbers mentally by doing hundreds / tens / units separately (partitioning) • If ready – as above with 4 digits eg 12462 – 2300 12462 – 2000 = 10462 10462 – 300 = 10162 • Apply mental skills to contexts eg money/measures (not decimals)
3	• Recap 1/10 and 1/100 with cups and then write tenths/100ths in different ways eg .1, 0.1, 1/10 • Use a number line to count in 1/10ths and zoom in to show 100ths, recognise and locate 1/10ths and 1/100ths on a number line • Add and subtract 0.1, 0.01, 0.01 to numbers with 2/3 decimal places • Write 3/10 as a decimal • Introduce 1/1000 – decimal equivalence (EXT for HA – measures contexts) • x and divide by 10, 100, 1000 by moving digits on a place value grid (start with whole numbers) • Problem solving – price for 1 apple, price for 10, price for 100 etc by choosing the appropriate method
4	• Column method adding 5 digits • Column method adding decimals up to 3 decimal places • Column method subtracting 5 digits • Column methods subtracting decimals up to 3 decimal places • Problem solving involving addition and subtraction of 5 digit numbers
5	• Measure lengths and record in mm, cm and mm and cm • Convert between cm and mm both ways • Convert between km, m, cm and mm

	• Problem solving – link roman topic
6	• Recognise and identify multiples of numbers to 10 and 25 • Find factors of numbers to at least 40 working systematically and identify prime numbers up to 100 and recall prime numbers up to 19 • Know and use vocabulary – prime, square, factor • Find square numbers using practical apparatus eg counters arranged in squares and write with '2' (EXT – cubed and write with '3' using multilink in cube shapes) • Solve problems / investigations – abacus week 13 (square root, rules of divisibility, testing rules) eg fluency in reasoning How can you get from one square number to the next? Is there a pattern?
7	• Recognise equivalent fractions on a fraction wall • Equivalent fractions by multiplying or dividing • Simplifying by dividing • Compare and order unit fractions and fractions with the same denominator • Compare and order fractions whose denominators are all multiples of the same number by simplifying eg 3/6, 2/12
Half term	
8	• Multiply and divide multiples of 10 and 100 mentally by using known facts eg 3 x 2 = 6 300 x 200 = 60000 • Multiply 3 and 4 digit numbers by a 1 digit number – introduce using short multiplication method p142 of national curriculum • HA Ext – 4 digits by 2 digits • Problem solving using method taught and using rounding to estimate
9	• Short division method p150 of National Curriculum • 3 digit by 1 digit no remainders • 3 digit by 1 digit remainders • Express remainders as a fraction • Problem solving involving division no remainders • Problems using remainders appropriately for the context eg rounding
10 (week 8 abacus)	• Angles - Review right angle, straight line, obtuse, acute, reflex • Estimate angles using known facts • Measure angles using a protractor (acute and obtuse) • Measure reflex angles • Draw acute and obtuse angles accurately • Draw reflex angles • Sort shapes according to angles

11 (abacus week 9)	• Place numbers to 100, 000 on a number line and round to the nearest 10, 100, 1000 • rpt with decimals to 2 places and round to the nearest tenth and then whole number • Compare and order numbers up to 3 decimal places using < > • Problem solving – length, money etc • Check / estimate using rounding
12 (Abacus week 10)	• Look at numbers they are adding carefully to decide quickest easiest and most efficient way of getting to right answer. eg: 2892 + 4747 (written), 142 + 65 (number bond), partitioning methods, near doubles, rounding • Use a number line to subtract by counting on, choosing the most appropriate method ie – columns for numbers that are far apart and counting on for lots of 0s and smaller gaps eg 4030 - 3978 Rounding 1560 – 899, partitioning methods • Word problems – choose the method (working mathematically document: Fluency in Problem Solving) money - £4.99 + £3.99 use rounding to calculate
13	• Convert 12 hour and 24 clock times • Find a time a given number of minutes / hours later • Calculate time durations – problems 12 and 24 hour clocks – jumping on method using number line to next hour and then on to minutes • Convert between units of time to solve problems
14	• Revision and Assessment