Highgate Primary Year 4 Maths Curriculum

WALT: We Are Learning To WAP: We Are Practising

Autumn I: Masks and Minotaurs

Week	Unit	National Curriculum objectives Possible lesson objectives	White Rose Maths (WRM) 'small steps'	Models and images representing number Key vocabulary	Reasoning (in addition to WRM questions)	Fluency			
I	Warm-Up Week Times table revision								
2	Number Place value to 10 000								
	different rep identify, repridifferent rep round any ne solve number WALT use bas WALT use bas WALT positionumberline WALT round	resent and estimate numbers using presentations resent and estimate numbers using presentations umber to the nearest 10 or 100 per and practical problems resent to 1000 per and practical problems resent numbers to 1000 per 10 to partition 3-digit numbers in 3-digit numbers on an empty to the nearest 10 to the nearest 10 to the nearest 100	 Represent numbers to 1000 100s, 10s and 1s Numberline to 1000 Round to the nearest 10 Round to the nearest 100 	Base-10, place value grid, empty numberline, place value counters, arrow cards	Possible answers A number rounded to the nearest ten is 540. What is the smallest possible number it could be? What about a number that rounded to the nearest 100 is 600? NRICH Representing Numbers (or following week) NRICH Reasoned Rounding	Counting in 10s and 100s Number facts: eight times table and division			
3	digit number identify, reprinted ifferent	resent and estimate numbers using presentations and practical problems	Count in thousands 1000s, 100s, 10s, 1s Partitioning Numberline to 10000 I, 10 or 100 more or less	Base-10, place value counters, part-whole model, empty numberline	Do, then explain Show the value of the digit 4 in these numbers? 3041 4321 5497 Explain how you know. Make up an example Create four digit numbers where the digit sum is 4 and the tens digit is 1. What is the largest / smallest number you can make? NRICH The Deca Tree	Finding 10, 100 or 1000 more or less Number facts: six times table			

4	 find 1000 more or less than a given number recognise the place value of each digit in a four-digit number order and compare numbers beyond 1000 round any number to the nearest 1000 solve number and practical problems WALT find 1000 more or less than any number WALT compare numbers up to 10000 WALT order numbers up to 1000 WALT round numbers to the nearest 1000 WAP partitioning 4-digit numbers 	1000 more or less Compare numbers Order numbers Round to the nearest 1000	Base-10, place value counters, place value grid, empty numberline	What do you notice? Round 1963 to the nearest 100. Round it to the nearest 1000. What do you notice? Can you suggest other numbers like this? What comes next? 6706+ 1000= 7706 7706+ 1000= 8706 8706+ 1000= 9706 NRICH What Distance? NRICH Ordering Journeys NRICH The Thousands Game NRICH Four-digit Targets NRICH Nice or Nasty	Revision of 2, 5 and 10 times tables Number facts: six times table division
5	count in multiples of 25 count backwards through zero to include negative numbers solve number and practical problems read Roman numerals to 100 and know that over time the numeral system changed to include the concept of zero and place value WALT count in 25s WALT count backwards through zero WAL the Roman numerals L and C WALT represent numbers to 100 with Roman numerals WALT calculate with Roman numerals	Count in 25s Negative numbers Roman numerals to 100	Number tracks, empty numberlines, thermometers	Spot the mistake: 950, 975,1000,1250 What is wrong with this sequence of numbers? What's the same, what's different between the Roman system and our own? NRICH Count Me In	Revision of 3 and 4 times tables Number facts: nine times table
6	Number Calculation: Addition and subtraction • add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why WALT add or subtract Is, IOs, IOOs or IOOOs to / from any number WAP adding 3-digit numbers using a place value grid WAP adding 3-digit numbers using a column	 Add and subtract 1s, 10s, 100s and 1000s Add 3-digit numbers – no crossing Add 4-digit numbers – no exchange Add 3-digit numbers – crossing 10 or 100 	Place value grid, place value counters, column layout, bar model, part-whole model	Hard and easy questions Which questions are easy / hard? 13323 - 70 = 12893 + 300 = 19354 - 500 = 19954 + 100 = Explain why you think so What's the same, what's different between adding or subtracting ones and adding or subtracting thousands?	Counting in 25s Number facts: nine times table division

	method WALT use different columnar methods to add 4- digit numbers WAP adding 3-digit numbers with exchanging				
7	 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why WALT use different columnar methods for harder 4-digit addition WALT add 4-digit numbers using column addition WALT use different methods for subtraction, including counting on WALT use different columnar methods to subtract 4-digit numbers WALT use column subtraction with an exchange 	 Add 4-digit numbers – one exchange Add 4-digit numbers – two+ exchanges Subtract 3-digit numbers – no exchange Subtract 4-digit numbers – no exchange Subtract 3-digit numbers – exchange 	Place value grid, place value counters, column layout, bar model, empty numberline for counting on	Missing digits (or following week) Completed column calculations with missing digits What's next 333 666 999 Can you solve this in your head? Can you make a similar puzzle? Challenge What's the hardest 4-digit subtraction calculation you can think of? Why is it so hard?	Revision of 8 times table Number facts: seven times table
8	 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why WALT use different columnar methods to subtract 4-digit numbers with an exchange WALT represent subtraction in different ways WALT choose between methods for subtraction WALT use rounding to estimate WALT use the inverse to check our calculations 	Subtract 4-digit numbers – one exchange Subtract 4-digit numbers – more than one exchange Efficient subtraction Estimate answers Checking strategies	Place value grid, place value counters, column layout, bar model, empty numberline	Convince me	Counting on to find a difference Number facts: seven times table division