Subtraction KS2

KS1 Pupils should practise subtraction to 20 and within to become increasingly fluent. They should use the facts they know to derive others, e.g using 10 - 7 = 3 and 7 = 10 - 3 to calculate 100 - 70 = 30 and 70 = 100 - 30. Know the effect of zero. As well as number lines, 100 squares could be used to model calculations such as 74 – 11, 77 – 9 or 36 – 14, where partitioning or adjusting are used. Pupils should learn to check their calculations, including by adding to check. They should continue to see subtraction as both take away and finding the difference and should find a small difference by counting up. They should use Dienes to model partitioning into tens and ones* and learn to partition numbers in different ways e.g. 23 = 20 + 3 = 10 + 13. Year 3 Subtract mentally pairs of Start with least Columnar subtraction Subtract mentally pairs of Columnar subtraction Representing problems Developing multiples of 100 using significant digit multiples of 1000 using known 2344 - 187 Check the answer to the following Conceptual/ 184 known facts decomposition facts calculations using the inverse. Show 2¹31 Procedural 286 600 - 200 = 400 because 6 -81 = 80 1 6000 - 2000= 4000 because all your working. 2344 468 Understanding 2 = 46 - 2 = 450 7 -187 **Emphasis** on Remodelling strategy 2157 language of place The children at Farmfield School are collecting money for charity Remodelling strategy (keeping the difference the Their target is to collect £360 value, i.e. 14 units (keeping the difference the 81 = 70 11 same) subtract 6 units, 14 6467 - 2684 same) - 57 50 7 3548 - 1998 tens subtract 8 tens. 502 - 19824_ 20__4_ 3550 - 2000 = 1550and 6 hundreds Ø467 504 - 200 = 304subtract 2 hundreds. 2684 "1 subtract 7 is tricky so I 3783 will rearrange 81 into 70 Find the difference strategy Re-arranging and 11, 11 subtract 7 13.6 - 2.8 =**Columnar subtraction** Use of apparatus to equals 4 and 70 subtract +0.2 +106 (decimals) in contexts understand 50 equals 20, 20 and 4 such as money and rearrangements, e.g. 55 as make 24." Representing measurement 40 and 15(not as part of problems calculations). 247 - 138 = 2456-734 = 1822 There are 386 pupils 32.34 - 14.18 13.6 - 2.8 = 10.8at Oak Primary. If 79 2121 Place value materials to 32.34 177 10 and 7 making 17 pupils have represent numbers in Place value materials to -14.18 100 30 sandwiches, how calculations represent calculations 18.16 many have dinners? 100 0 Appendix 1. 386 734 79 Derive and use addition and subtraction facts to 100, e.g. 33+67 =100. Derive and use addition and subtraction facts (for multiples of 10) to 1000, e.g. 330+670=1000. Known facts Essential Subtract single digit bridging through Subtract multiples of 10,100 Fluency of 2 digit - 2 digit Subtract multiples of 10, 100 and 1000 knowledge boundaries Partition second number to subtract Pairs of 100 (complements of 100) Partition second number to subtract Decimal subtraction from 10 or 1 Difference between Subtract near multiples of 10 and 100 Difference between Subtract near multiples by rounding and by rounding and adjusting adjusting Partition and recombine

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Year	5				6	
Developing Conceptual/ Procedural Understanding	Columnar subtraction 1	world at 28,169 fourth highest a the difference i	a is the third highest mountain in the deet above sea level. Lhotse is the at 27,960 feet above sea level. Find in heights mentally. If the same to make the r to calculate with.	Columnar subtraction Include calculations with up to 3 'empty columns'. 128.7 - 3.014 6911 128.700 - 3.014 125.686	Katie 47326 2000 answ	was given the calculation below 3 - 1900 = She said "I will just take off then subtract another 100 so my er is 45126." Is she correct? Would se her method? Explain your answer
Known facts	Derive and use addition and subtraction facts to 10 and 1, e.g. $3.3+6.7$ = 10 leads to $10-3.3=6.7$ and $0.33+0.67=1$ so $1-0.67=0.33$			All the KS2 required facts		
Essential knowledge	Fluency of 2 digit - 2 dig with decima Partition second numbe	ls	Subtract multiples of 10, 100, 1000 and tenths Use number facts, bridging and place value	Fluency of 2 digit - 2 digit including with decimals Partition second number to subtract		Subtract multiples of 10, 100, 1000, tenths and hundredths Use number facts, bridging and place value
	Adjust numbers to subtract		Difference between	Adjust numbers to subtract		Difference between