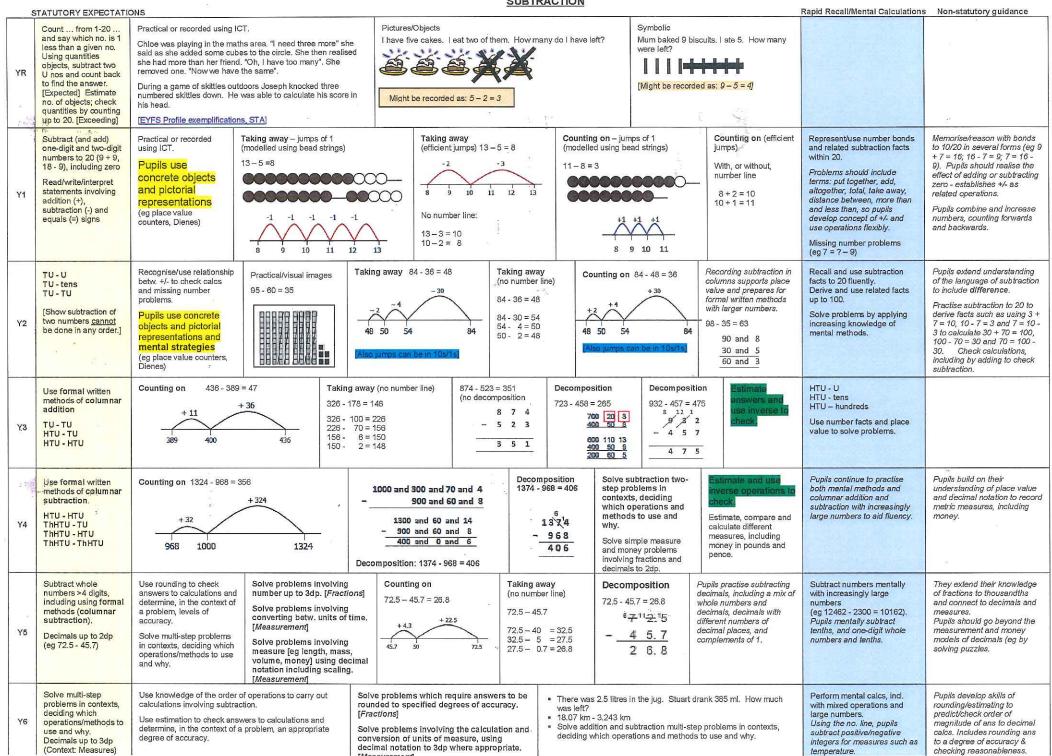
SUBTRACTION	J
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Rapid Recall/Mental Calculations Non-statutory guidance STATUTORY EXPECTATIONS Symbolic Count ... from 1-20 ... Practical or recorded using ICT. Pictures/Objects and say which no. is 1 I have five cakes. I eat two of them. How many do I have left? Mum baked 9 biscuits, I ate 5. How many Chloe was playing in the maths area. "I need three more" she less than a given no. were left? said as she added some cubes to the circle. She then realised Using quantities she had more than her friend. "Oh, I have too many". She objects, subtract two removed one. "Now we have the same". U nos and count back to find the answer. [Might be recorded as: 9 - 5 = 4] During a game of skittles outdoors Joseph knocked three [Expected] Estimate numbered skittles down. He was able to calculate his score in Might be recorded as: 5-2=3no. of objects: check quantities by counting [EYFS Profile exemplifications, STA] up to 20. [Exceeding] Counting on (efficient Memorise/reason with bonds Subtract (and add) Practical or recorded Taking away - jumps of 1 Taking away Counting on - jumps of 1 Represent/use number bonds (modelled using bead strings) and related subtraction facts to 10/20 in several forms (eg 9 one-digit and two-digit using ICT. (modelled using bead strings) (efficient jumps) 13 - 5 = 8jumps) +7=16:16-7=9:7=16within 20 numbers to 20 (9 + 9. 9). Pupils should realise the Pupils use With, or without, 18 - 9), including zero Problems should include effect of adding or subtracting number line concrete objects terms: put together, add, Read/write/interpret zero - establishes +/- as and pictorial altogether, total, take away, statements involving 8 + 2 = 10related operations. Y1 distance between, more than addition (+), representations 10 + 1 = 11and less than, so pupils Pupils combine and increase subtraction (-) and (eg place value No number line: develop concept of +/- and numbers, counting forwards equals (=) signs -1 -1 -1 counters, Dienes) use operations flexibly. and backwards. 13 - 3 = 1010 - 2 = 8Missing number problems (eq7 = ? - 9)Recall and use subtraction Pupils extend understanding Recognise/use relationship Taking away 84 - 36 = 48 Taking away Recording subtraction in Counting on 84 - 48 = 36 TU-U Practical/visual images facts to 20 fluently. of the language of subtraction (no number line) columns supports place betw. +/- to check calcs TU-tens Derive and use related facts. to include difference. 95 - 60 = 35value and prepares for and missing number TU-TU 84 - 36 = 48formal written methods up to 100. problems. Practise subtraction to 20 to with larger numbers. [Show subtraction of Solve problems by applying derive facts such as using 3 + Pupils use concrete 84 - 30 = 54two numbers cannot 7 = 10.10 - 7 = 3 and 7 = 10 -Y2 98 - 35 = 63increasing knowledge of 54 - 4 = 50 objects and pictorial be done in any order.] 3 to calculate 30 + 70 = 100,mental methods. 50 - 2 = 48 representations and 90 and 8 100 - 70 = 30 and 70 = 100 mental strategies 30 and 5 30. Check calculations, (eg place value counters. including by adding to check 60 and 3 Dienes) subtraction. Decomposition HTU - U Counting on 436 - 389 = 47 Taking away (no number line) 874 - 523 = 351 Decomposition Use formal written HTU - tens (no decomposition methods of columnar 326 - 178 = 148 723 - 458 = 265 932 - 457 = 475 HTU - hundreds + 36 addition 8 7 4 8 12 1 +11700 20 3 400 50 8 326 - 100 = 226 3 2 Use number facts and place - 5 2 3 TU-TU Y.3 226 - 70 = 156 value to solve problems. 4 5 7 HTU - TU 156 - 6 = 150 600 110 13 400 50 8 200 60 5 HTU - HTU 3 5 1 150 -2 = 1484 7 5 Decomposition Solve subtraction two-Pupils continue to practise Pupils build on their Use formal written Counting on 1324 - 968 = 356 understanding of place value 1000 and 300 and 70 and 4 1374 - 968 = 406 step problems in both mental methods and methods of columnar contexts, deciding columnar addition and and decimal notation to record 900 and 60 and 8 subtraction. metric measures, including which operations and subtraction with increasingly HTU - HTU methods to use and Estimate, compare and large numbers to aid fluency. money. + 32 1300 and 60 and 14 1374 Y4 ThHTU-TU why. calculate different 900 and 60 and 8 ThHTU - HTU - 968 measures, including Solve simple measure 400 and 0 and 6 ThHTU - ThHTU money in pounds and 1324 968 1000 406 and money problems pence. involving fractions and Decomposition: 1374 - 968 = 406 decimals to 2dp. Solve problems involving Taking away Pupils practise subtracting Subtract numbers mentally They extend their knowledge Subtract whole Use rounding to check Counting on Decomposition of fractions to thousandths numbers >4 digits, answers to calculations and number up to 3dp. [Fractions] (no number line) decimals, including a mix of with increasingly large 72.5 - 45.7 = 26.8725 - 457 = 268including using formal determine, in the context of whole numbers and and connect to decimals and numbers Solve problems involving (eg 12462 - 2300 = 10162). methods (columnar decimals, decimals with measures. a problem, levels of 72.5 - 45.76711215 converting betw. units of time. Pupils should go beyond the subtraction). + 22.5 different numbers of Pupils mentally subtract accuracy. [Measurement] 72.5 - 40 = 32.5decimal places, and tenths, and one-digit whole measurement and money Y5 Decimals up to 2dp Solve multi-step problems models of decimals (eg by 32.5 - 5 = 27.5complements of 1. numbers and tenths. Solve problems involving (eg 72.5 - 45.7) in contexts, deciding which 27.5 - 0.7 = 26.8solvina puzzles. measure [eg length, mass, operations/methods to use volume, money] using decimal and why. notation including scaling. [Measurement] Solve multi-step Use knowledge of the order of operations to carry out Perform mental calcs, incl. Pupils develop skills of Solve problems which require answers to be . There was 2.5 litres in the jug. Stuart drank 385 ml. How much with mixed operations and rounding/estimating to problems in contexts, calculations involving subtraction. rounded to specified degrees of accuracy. was left? deciding which [Fractions] large numbers. predict/check order of 18 07 km - 3 243 km Use estimation to check answers to calculations and Y6 Using the no. line, pupils magnitude of ans to decimal operations/methods to · Solve addition and subtraction multi-step problems in contexts, determine, in the context of a problem, an appropriate Solve problems involving the calculation and use and why. subtract positive/negative calcs. Includes rounding ans deciding which operations and methods to use and why. degree of accuracy. conversion of units of measure, using Decimals up to 3dp integers for measures such as to a degree of accuracy & decimal notation to 3dp where appropriate. (Context: Measures) temperature. checking reasonableness.