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| **Broadmayne First School Knowledge Organiser** |

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| **Maths Focus** | **Addition and Subtraction** | **Year 2** | **Autumn Term 2** |

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| Addition Vocabulary | Subtraction Vocabulary |  | | Practical resources |
| add | subtract | Number line, numicon, dienes, tens and ones chart, 10p and 1p coins, place value counters, part part whole board.    See the source image See the source imageSee the source image  See the source image See the source image |
| altogether | take away |
| sum (also known as total) | difference |
| plus | minus |
| more | less |
| regrouping  renaming  calculate  estimate  inverse | |  | |
| Number bonds to 10, 20 and 100 | |  | | Number families |
| Making 10 Making 20 Making 100  Add in an extra 10! Turns the bonds to 10 into  10s numbers!  0 + 10 =10 0 + 20 = 20 0 + 100 = 100  1 + 9 = 10 1 + 19 = 20 11 + 9 = 20 10 + 90 = 100  2 + 8 = 10 2 + 18 = 20 12 + 8 = 20 20 + 80 = 100  3 + 7 = 10 3 + 17 = 20 13 + 7 = 20 30 + 70 = 100  4 + 6 = 10 4 + 16 = 20 14 + 6 = 20 40 + 60 = 100  5 + 5 = 10 5 + 15 = 20 15 + 5 = 20 50 + 50 = 100  6 + 4 = 10 6 + 14 = 20 16 + 4 = 20 60 + 40 = 100  7 + 3 = 10 7 + 13 = 20 17 + 3 = 20 70 + 30 = 100  8 + 2 = 10 8 + 12 = 20 18 + 2 = 20 80 + 20 = 100  9 + 1 = 10 9 + 11 = 20 19 + 1 = 20 90 + 10 = 100  10 + 0 = 10 10+ 10 = 20 20 + 0 = 20 100 + 0 = 100 | |  | | |  |  | | --- | --- | | 7 | 5 | | 12 | |   7 + 5 = 12 5 + 7 = 12  12 - 5 = 7 12 - 7 = 12  Inverse calculations |
|  | |
| Part Part Whole Model | |  | | Rounding to estimate |
| See the source imageSee the source image | |  | | If a number ends in 1, 2, 3 or 4 round down to the nearest 10.  It a number ends in 5, 6, 7, 8 or 9 round up to the nearest 10 .  32 + 26 = 58  Round to the nearest 10  30 + 30 = 60. |

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| **Key Knowledge** | | | | | |
| **Addition** | | | **Subtraction** | | |
| **Adding a one digit number to a two digit number** | | | **Subtracting a one digit number from a two digit number** | | |
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| Adding a 10s digit to a two digit number  27 + 40 + 67 | | | Subtracting a tens number from a two digit number  72 - 30 = 42 | | |
| Adding 2 two digit numbers  **Method 1 (no regrouping)**  Method 2 (with regrouping) | | | Subtracting a two digit number from a two digit number  **Method 1 (no regrouping)**    Draw a number line. Start at 27 and partition 12 into tens and ones. Do one hop of 10 then 4 hops of 1 to reach the answer.  Method 2 (with regrouping) | | |