## Prior Knowledge (from Y1)

- Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- Represent and use number bonds and related subtraction facts within 20
- Add and subtract one-digit and two-digit numbers to 20 , including 0
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ ? - 9

| addition and subtraction | Working <br> Towards | Within | Expected | Above |
| :--- | :--- | :--- | :--- | :--- |
|  | Solve problems with addition and subtraction using concrete objects and <br> pictorial representations, including those involving numbers, quantities <br> and measures |  |  |  |
| Solve problems with addition and subtraction applying increasing <br> knowledge of mental and written methods |  |  |  |  |
|  | Add and subtract numbers using concrete objects, pictorial <br> representations, and mentally, including: <br> -a two-digit number and 1s <br> -a two-digit number and 10s <br> -2 two-digit numbers <br> -adding 3 one-digit numbers |  |  |  |
| Show that addition of 2 numbers can be done in any order (commutative) <br> and subtraction of one number from another cannot |  |  |  |  |
| Recognise and use the inverse relationship between addition and <br> subtraction and use this to check calculations and solve missing number <br> problems |  |  |  |  |

Highlights: $\qquad$


| vocabulary | word class | definition |
| :--- | :--- | :--- |
| addition + | noun | the process of calculating the total of two or more numbers or amounts |
| add + | verb | put together (two or more numbers or amounts) to calculate their total value |
| subtraction - | noun | the process of taking a matrix, vector, or other quantity away from another under specific <br> rules to obtain the difference |
| subtract - | verb | take away (a number or amount) from another to calculate the difference |
| equal (to) = | adjective | being the same in quantity, size, degree, or value |
| commutative | adjective | involving the condition that a group of quantities connected by operators gives the same result <br> whatever the order of the quantities involved, e.g. $a \times b=b \times a$ |
| inverse | noun | a reciprocal quantity, mathematical expression, geometric figure, etc. which is the result of inversion |
| calculation | noun | a mathematical determination of the amount or number of something |




Addition and Subtraction Bonds to 100
$2+8=10$
so $20+80=100$

$32+68=100$
3 tens and 2 ones +6 tens and 8 ones
$=9$ tens and 10 ones $=10$ tens $=$ one hundred


## Future Learning

## Year 3

- Add and subtract numbers mentally, including:
- a three-digit number and 1s
- a three-digit number and 10 s
- a three-digit number and 100s
- Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction
- Estimate the answer to a calculation and use inverse operations to check answers
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction


## Year 6

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[^0]:    (0) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

