## IO ADD AND SUBTRACT

|  | Milestone 1 | Milestone 2 | Milestone 3 |
| :---: | :---: | :---: | :---: |
|  | - Solve one-step problems with addition and subtraction using concrete objects and pictorial representations, and missing number problems such as $7=\ldots-9$ (Y1) <br> - Read and write mathematical symbols add $(+)$, subtract ( - ) and equals (=) (Y1) <br> - Solve one-step problems with addition and subtraction (Y2) <br> - using concrete objects and pictorial representations including those involving numbers, quantities, and measures <br> - applying their increasing knowledge of mental and written methods <br> - Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?" (Y2) | - Solve two-step addition and subtraction problems in contexts, deciding which operations and methods to use and why. | - Solve multi-step addition and subtraction problems in contexts, deciding which operations and methods to use and why. |

In bold - National curriculum objectives for the year group.
In blue - Ready-to-progress criteria identified as the most important conceptual knowledge and understanding that pupils need as they progress to the next year's curriculum.

- Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
- Add and subtract one digit and twodigit numbers to 20, including zero (Y1)
- Add and subtract a two-digit number and ones e.g. 34-8= 52+5= (Y2)
- Add and subtract two-digit numbers and tens 26+30= (Y2)
- Add and subtract two two-digit numbers
42-22= 56+29= (Y2)
- Add three one-digit numbers $9+6+7=$ (Y2)
- Add and subtract across 10. (Y2)
- Use the inverse relationship between addition and subtraction to check calculations and solve missing number problems.
- Secure fluency in addition and subtraction facts that bridge 10 through continued practice. (Y3)
- Add numbers mentally, including a 3-digit number and ones. (Y3)
- Add numbers mentally, including a 3-digit number and tens. (Y3)

Add numbers mentally, including a 3-digit number and hundreds. (Y3)

- Subtract numbers mentally, including a 3-digit number and ones (Y3)
- Subtract numbers mentally, including a 3-digit number and tens. (Y3)
- Subtract numbers mentally, including a 3-digit number and hundreds. (Y3)
- Add numbers with up to 3-digits using columnar method. (Y3)
- Subtract numbers with up to 3-digits using columnar method. (Y3)
- Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. (Y4)
- Estimate and use inverse operations to check answers to a calculation.
- Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. (Y3)
- Understand and use the commutative property of addition, and understand the related property for subtraction. (Y3)


## Maths Curriculum

- Add and subtract whole numbers with more than 4 digits, including using formal written methods. (columnar addition and subtraction)
- Add and subtract numbers mentally with increasingly large numbers.
- Use rounding to check answers to calculations

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- Develop and secure fluency in addition and subtraction facts within 10, through continued practice.
- Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. (Y1)
- Use number bonds and subtraction facts within 20 E.g. 14+6=20 20-6=14 (Y1)
- Recall and use addition and subtraction facts to 20 fluently. ( Y 2 )
- Derive and use related facts up to 100 $2+3=5$ so $20+30=50$
- Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. (Y2)


## Maths Curriculum

- Calculate complements to 100.

Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction.

- Add and subtract negative integers


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