St Anne's Primary School Maths Progression:
Addition and Subtraction
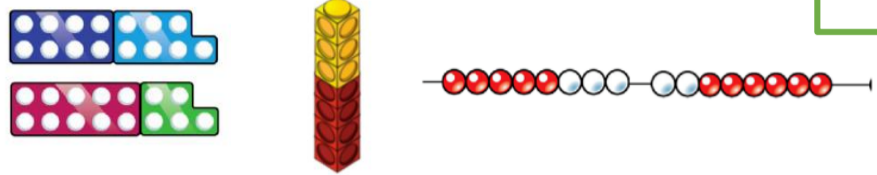
Nursery

- Begin to explore concepts of one more and one less.

Reception

- Confidently recall number bonds to 5.
- Recall some number bonds to 10 using various aids.

YEAR 1
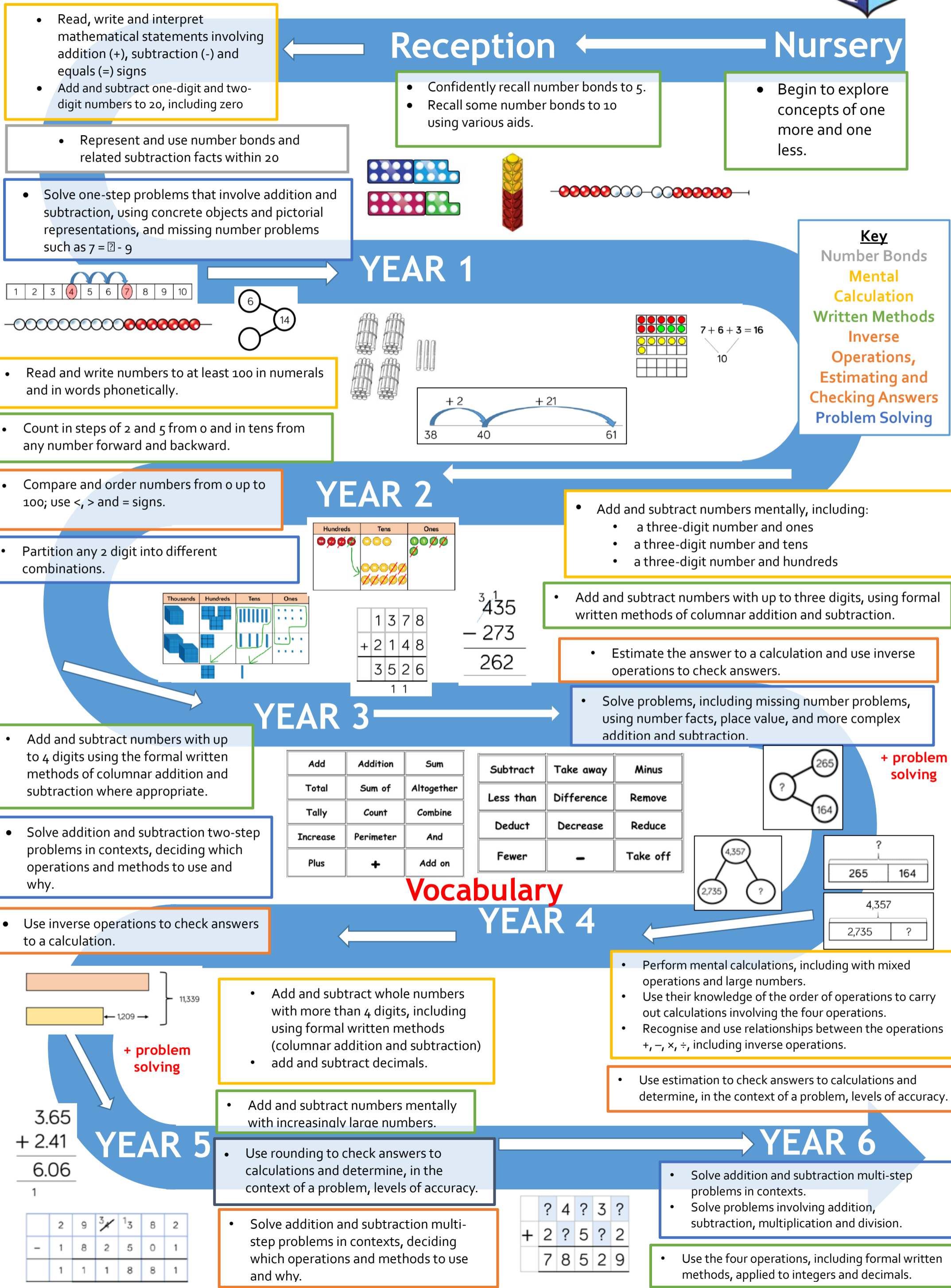
- Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
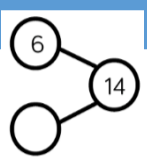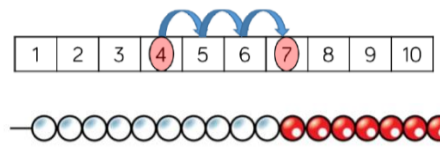- Add and subtract one-digit and two-digit numbers to 20, including zero
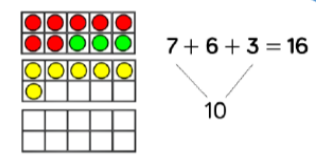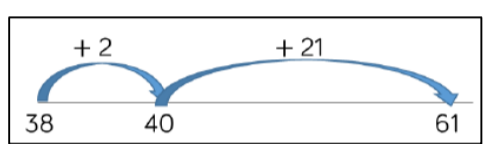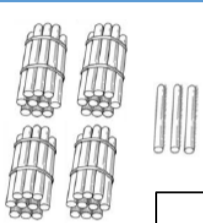- Represent and use number bonds and related subtraction facts within 20
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ⬚ - 9

Key
- Number Bonds
- Mental Calculation
- Written Methods
- Inverse Operations, Estimating and Checking Answers
- Problem Solving

$7 + 6 + 3 = 16$

$+ 2 \qquad + 21$
38 → 40 → 61

YEAR 2

- Read and write numbers to at least 100 in numerals and in words phonetically.
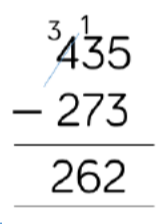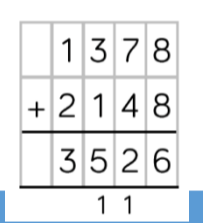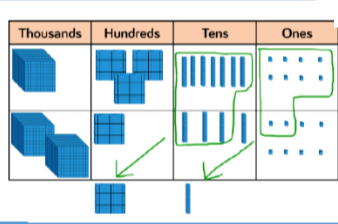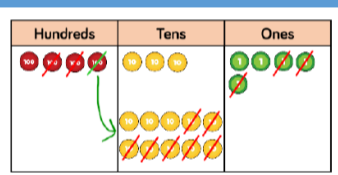- Count in steps of 2 and 5 from 0 and in tens from any number forward and backward.
- Compare and order numbers from 0 up to 100; use <, > and = signs.
- Partition any 2 digit into different combinations.

- Add and subtract numbers mentally, including:
  - a three-digit number and ones
  - a three-digit number and tens
  - a three-digit number and hundreds

YEAR 3

- Add and subtract numbers with up to three 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.

+ problem solving

Hundreds	Tens	Ones

$\begin{array}{r} 1378 \\ +2148 \\ \hline 3526 \\ \hline 11 \end{array}$

$\begin{array}{r} {}^{3}4{}^{1}35 \\ -\ 273 \\ \hline 262 \end{array}$

YEAR 4

- Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
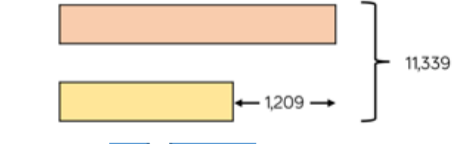- Use inverse operations to check answers to a calculation.

Vocabulary

Add	Addition	Sum
Total	Sum of	Altogether
Tally	Count	Combine
Increase	Perimeter	And
Plus	+	Add on

Subtract	Take away	Minus
Less than	Difference	Remove
Deduct	Decrease	Reduce
Fewer	−	Take off

YEAR 5

- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
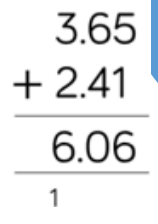- add and subtract decimals.
- Add and subtract numbers mentally with increasingly large numbers.
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
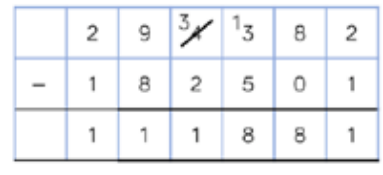- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

+ problem solving

$\begin{array}{r} 3.65 \\ +\ 2.41 \\ \hline 6.06 \\ \hline 1 \end{array}$

YEAR 6

- Perform mental calculations, including with mixed operations and large numbers.
- Use their knowledge of the order of operations to carry out calculations involving the four operations.
- Recognise and use relationships between the operations +, −, ×, ÷, including inverse operations.
- Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Solve addition and subtraction multi-step problems in contexts.
- Solve problems involving addition, subtraction, multiplication and division.
- Use the four operations, including formal written methods, applied to integers and decimals.

$\begin{array}{r} ?4?3? \\ +2?5?2 \\ \hline 78529 \end{array}$