

## Year 3 (2A)

## Mapping Guide

## Online Teacher Support

Number Knowledge  
- NK 1 to 12

## Number Knowledge 1-8

NK 1-8 - / Overview

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Number Knowledge 9-10

Number Knowledge 11

Number Knowledge 12

Number & Algebra Strand  
- Chapters 1 to 10

Measurement & Geometry Strand  
- Chapters 11 to 16

Statistics Strand  
- Chapters 17 to 18

Mixed Tasks  
- Chapter 19

Supplementary Book Printable Masters  
Printable Masters  
Extra Tasks

## Year 4 (2B)

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## Year 5 (3A)

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Supplementary Book Printable Masters

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Extra Tasks

## Year 6 (3B)

## Mapping Guide

Online Teacher Support

Supplementary Book Printable Masters

Printable Masters

Extra Tasks

## Year 7 (4A)

## Mapping Guide

Online Teacher Support

Supplementary Book Printable Masters

Printable Masters

Extra Tasks

## Year 8 (4B)

## Mapping Guide

Online Teacher Support

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Extra Tasks

## Student Resource Book | Year 3 (2A)

- NK 1 - Place value
- NK 3 - Family of facts
- NK 5 - Adding to and subtracting from a tens number
- NK 7 - What comes 1, 10 or 100 before or after me?
- NK 9 - Twos, fives and tens multiplication
- NK 11 - Twos, fives and tens division
- NK 12 - Understanding and naming fractions

- NK 2 - Ones and tens in numbers
- NK 4 - Addition and subtraction basic facts
- NK 6 - Tens facts that make hundreds
- NK 8 - Ordering whole numbers
- NK 10 - Multiplying by 10 and 100

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NK 1-8  
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## NK 1-8 | Overview

## NK 1 - Place value

- Understand that digits written in different places within a number have different values.
- Realise that only the digits 0-9 can be used in any number place and when one more is added to 9, the place value on the left is used.
- Understand how zero acts as a place holder.
- Read and write digits from 0-1000.

> More overview on "NK 1 - Place value"...

## NK 2 - Ones and tens in numbers

- Understand nested place value, such as tens being nested in hundreds and ones being nested in tens.

> More overview on "NK 2 - Ones and tens in numbers"...

## Teacher notes

- Nested place value allows students to understand the importance of the position of digits in a number and how they can be represented in different ways, for example in 367 the 6 stands for 6 tens but also 60 ones.
- Using place value materials is very important in developing students' understanding of nested place value.
- Students who have not really understood the concept of exchanging ten ones for one ten and vice versa will often struggle with nested place value. It may be necessary to revisit conventional place value using materials for them to make sense of nesting.
- It can be tempting to show students a trick for finding the number of tens in a number (hiding the ones digit). This should be avoided as it will not help students to understand this important concept. If students notice this pattern, ask them to show why this might be true using place value materials (to demonstrate that there are no tens in the ones place).
- Provide students with opportunities to verbalise place value ideas and understandings.

## NK 3 - Family of facts

- Learn that four addition and subtraction facts that all have the same three numbers form a 'family'.
- Learn that the order of numbers in addition does not change the total (the commutative property of addition).
- Learn that addition and subtraction facts are 'opposite' operations that, 'undo' each other (the inverse property of addition and subtraction).

> More overview on "NK 3 - Family of facts"...

## NK 4 - Addition and subtraction basic facts

- Develop fluent and accurate recall of addition facts to 20 and subtraction facts to ten.

> More overview on "NK 4 - Addition and subtraction basic facts"...

## NK 5 - Addition to and subtraction from a tens number

- Learn to make tens numbers using addition or subtraction.

> More overview on "NK 5 - Adding to and subtracting from a tens number"...

## NK 6 - Tens facts that make hundreds

- Combine basic facts and place value knowledge to solve addition and subtraction problems involving decades and hundreds.

> More overview on "NK 6 - Tens facts that make hundreds"...