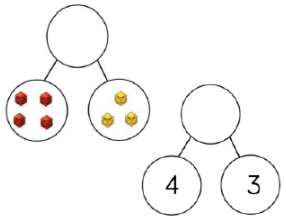
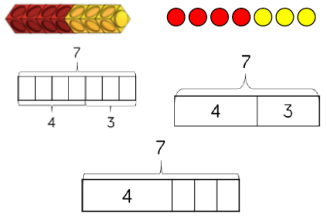
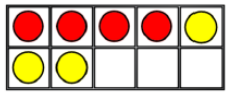
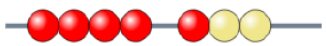
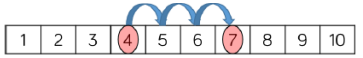
SARUM HALL
SCHOOL

MATHS CALCULATION POLICY (Year 1)

Date:	July 2025
Next Review Due:	September 2026
Reviewed by:	Chen Lee

This policy has been largely adapted from the White Rose Maths Calculation Policy with further material added.
It is a working document and will be revised and amended as necessary.

ADDITION

<table>
<tr><th>Skill</th><th>Representations and Models</th><th>Vocabulary</th></tr>
<tr><td>Add two 1-digit numbers to 10</td><td>
Example: $4 + 3 = 7$
<table>
<tr><td>Part-whole model
 
</td><td>Bar model
 
</td><td>Number shapes
  </td></tr>
<tr><td>Ten frames (within 10)
  </td><td>Bead strings (10)
  </td><td>Number tracks
 
</td></tr>
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</td><td rowspan="2">

Sort
Represent
Multiples
Partitioning
Ones
Tens
Place value
Compare
Addition/add
Equals
Facts
Problems
Missing number
Number bonds
2-digit number

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<tr><td>Add 1 and 2-digit numbers to 20</td><td>
Example: $8 + 7 = 15$
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 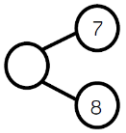
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 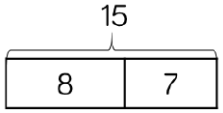
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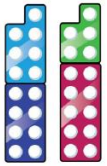
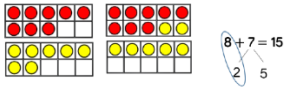
  </td><td>Ten frames (within 20)
 
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 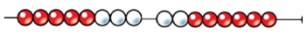 </td><td>Number tracks
 
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 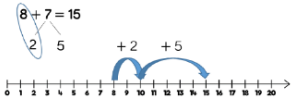
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 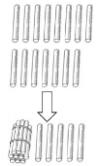 </td></tr>
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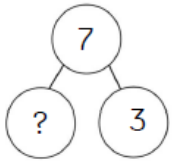
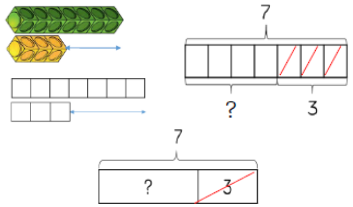
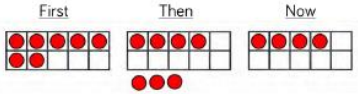
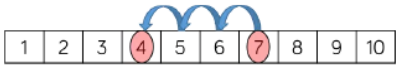
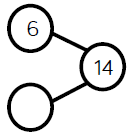
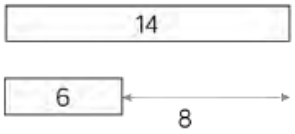
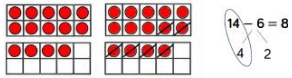
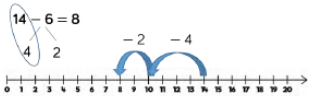
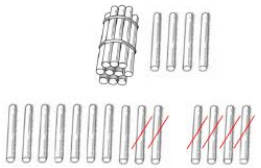
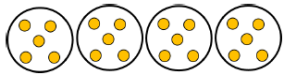
SUBTRACTION

Skill	Representations and Models	Vocabulary
Subtract 1-digit numbers within 10	**Example:** $7 - 3 = 4$ **Part-whole model**  **Bar model**  **Number shapes**  **Ten frames (within 10)**  **Bead strings (10)**  **Number tracks**  	• Sort • Represent • Partitioning • Ones • Tens • Place value • Compare • Subtraction/ subtract • Take away • Minus • Difference • Equals • Facts • Problems • Missing number • Inverse • Number bonds • 2-digit number
Subtract 1 and 2-digit numbers to 20	**Example:** $14 - 6 = 8$ **Part-whole model**  **Bar Model**  **Number shapes**  **Ten frames (within 20)**  **Number tracks**  **Number lines (labelled)**  **Straws** 	

MULTIPLICATION

Skill	Representations and Models	Vocabulary
Solve 1-step problems using multiplication	**Example:** One bag holds 5 apples. How many apples do 4 bags hold?	• Sort • Represent • Multiples • Partitioning • Ones • Tens • Place value • Compare • Multiplication • Multiply • Arrays • Row • Column • Count in… • Lots of… • Groups of… • Times • Repeated addition • Equals • Facts • Problems • Missing number • 2-digit number

Bar model

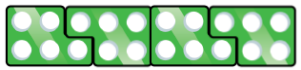


$5 + 5 + 5 + 5 = 20$

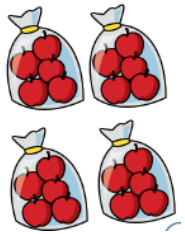
$4 \times 5 = 20$

$5 \times 4 = 20$

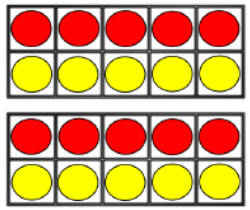
Number shapes



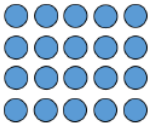
Counters



Ten frames



Arrays



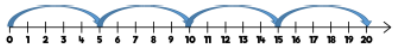
$5 + 5 + 5 + 5 = 20$

$4 \times 5 = 20$

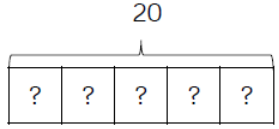
$5 \times 4 = 20$

Bead strings

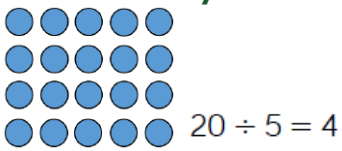
Number lines

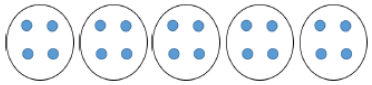


DIVISION

<table>
<tr><th>Skill</th><th>Representations and Models</th><th>Vocabulary</th></tr>
<tr><td>Solve one-step problems with division (sharing)</td><td>
Example: There are 20 apples altogether. They are shared equally between 5 bags. How many apples are in each bag?
Bar model


Real life objects

Arrays


Counters

20 ÷ 5 = 4
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• Sort
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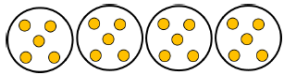
• Tens
• Place value
• Compare
• Division
• Divide
• Arrays
• Row
• Column
• Count in…
• Lots of…
• Groups of…
• Share
• Equals
• Facts
• Problems
• Missing number
• Inverse
• 2-digit number
</td></tr>
<tr><td>Solve one-step problems with division (grouping)</td><td>
Example: There are 20 apples altogether. They are put in bags of 5. How many bags are there?
Bar model

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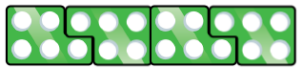
Number shapes

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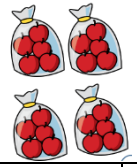
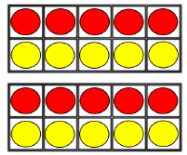

Ten frames

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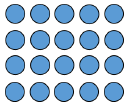
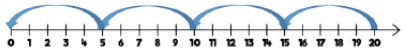

20 ÷ 5 = 4
Bead strings

Number lines


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