



# SARUM HALL SCHOOL

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## MATHS CALCULATION POLICY (Year 1)

**Date:** September 2026  
**Next Review Due:** September 2027  
**Reviewed by:** Deputy Head (Academic & Innovation)

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.

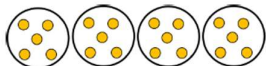
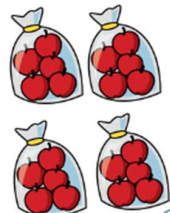
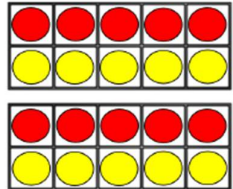
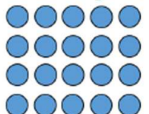
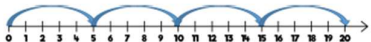
# ADDITION

| Skill                           | Representations and Models |                   |                         |                        | Vocabulary                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|----------------------------|-------------------|-------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add two 1-digit numbers to 10   | Example: $4 + 3 = 7$       |                   |                         |                        | <ul style="list-style-type: none"><li>• Sort</li><li>• Represent</li><li>• Multiples</li><li>• Partitioning</li><li>• Ones</li><li>• Tens</li><li>• Place value</li><li>• Compare</li><li>• Addition/add</li><li>• Equals</li><li>• Facts</li><li>• Problems</li><li>• Missing number</li><li>• Number bonds</li><li>• 2-digit number</li></ul> |
|                                 | Part-whole model           | Bar model         | Number shapes           |                        |                                                                                                                                                                                                                                                                                                                                                 |
|                                 | Ten frames (within 10)     | Bead strings (10) | Number tracks           |                        |                                                                                                                                                                                                                                                                                                                                                 |
|                                 |                            |                   |                         |                        |                                                                                                                                                                                                                                                                                                                                                 |
| Add 1 and 2-digit numbers to 20 | Example: $8 + 7 = 15$      |                   |                         |                        |                                                                                                                                                                                                                                                                                                                                                 |
|                                 | Part-whole model           | Bar Model         | Number shapes           | Ten frames (within 20) |                                                                                                                                                                                                                                                                                                                                                 |
|                                 | Bead strings (20)          | Number tracks     | Number lines (labelled) | Straws                 |                                                                                                                                                                                                                                                                                                                                                 |
|                                 |                            |                   |                         |                        |                                                                                                                                                                                                                                                                                                                                                 |

# SUBTRACTION

| Skill                                | Representations and Models |                         |               | Vocabulary                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------|----------------------------|-------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subtract 1-digit numbers within 10   | Example: $7 - 3 = 4$       |                         |               | <ul style="list-style-type: none"><li>• Sort</li><li>• Represent</li><li>• Partitioning</li><li>• Ones</li><li>• Tens</li><li>• Place value</li><li>• Compare</li><li>• Subtraction/ subtract</li><li>• Take away</li><li>• Minus</li><li>• Difference</li><li>• Equals</li><li>• Facts</li><li>• Problems</li><li>• Missing number</li><li>• Inverse</li><li>• Number bonds</li><li>• 2-digit number</li></ul> |
|                                      | Part-whole model           | Bar model               | Number shapes |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                      | Ten frames (within 10)     | Bead strings (10)       | Number tracks |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Subtract 1 and 2-digit numbers to 20 | Example: $14 - 6 = 8$      |                         |               |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                      | Part-whole model           | Bar Model               | Number shapes |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                      | Number tracks              | Number lines (labelled) | Straws        |                                                                                                                                                                                                                                                                                                                                                                                                                 |

# MULTIPLICATION

| Skill                                      | Representations and Models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vocabulary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solve 1-step problems using multiplication | <p><b>Example:</b> One bag holds 5 apples. How many apples do 4 bags hold?</p> <div> <div> <p><b>Bar model</b></p>  <p><math>5 + 5 + 5 + 5 = 20</math><br/> <math>4 \times 5 = 20</math><br/> <math>5 \times 4 = 20</math></p> </div> <div> <p><b>Number shapes</b></p>  </div> <div> <p><b>Counters</b></p>  </div> <div> <p><b>Ten frames</b></p>  </div> </div> | <ul style="list-style-type: none"> <li>• Sort</li> <li>• Represent</li> <li>• Multiples</li> <li>• Partitioning</li> <li>• Ones</li> <li>• Tens</li> <li>• Place value</li> <li>• Compare</li> <li>• Multiplication</li> <li>• Multiply</li> <li>• Arrays</li> <li>• Row</li> <li>• Column</li> <li>• Count in...</li> <li>• Lots of...</li> <li>• Groups of...</li> <li>• Times</li> <li>• Repeated addition</li> <li>• Equals</li> <li>• Facts</li> <li>• Problems</li> <li>• Missing number</li> <li>• 2-digit number</li> </ul> |
|                                            | <div> <div> <p><b>Arrays</b></p>  <p><math>5 + 5 + 5 + 5 = 20</math><br/> <math>4 \times 5 = 20</math><br/> <math>5 \times 4 = 20</math></p> </div> <div> <p><b>Bead strings</b></p>  </div> <div> <p><b>Number lines</b></p>  </div> </div>                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

# DIVISION

| Skill                                            | Representations and Models                                                                                                                                                                                                                                                                                        | Vocabulary                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solve one-step problems with division (sharing)  | <p><b>Example:</b> There are 20 apples altogether. They are shared equally between 5 bags. How many apples are in each bag?</p> <div> <div> <p><b>Bar model</b></p> <p>20</p> </div> <div> <p><b>Real life objects</b></p> </div> </div>                                                                          | <ul style="list-style-type: none"> <li>Sort</li> <li>Represent</li> <li>Multiples</li> <li>Partitioning</li> <li>Ones</li> <li>Tens</li> <li>Place value</li> <li>Compare</li> <li>Division</li> <li>Divide</li> <li>Arrays</li> <li>Row</li> <li>Column</li> <li>Count in...</li> <li>Lots of...</li> <li>Groups of...</li> <li>Share</li> <li>Equals</li> <li>Facts</li> <li>Problems</li> <li>Missing number</li> <li>Inverse</li> <li>2-digit number</li> </ul> |
|                                                  | <div> <div> <p><b>Arrays</b></p> <p><math>20 \div 5 = 4</math></p> </div> <div> <p><b>Counters</b></p> <p><math>20 \div 5 = 4</math></p> </div> </div>                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Solve one-step problems with division (grouping) | <p><b>Example:</b> There are 20 apples altogether. They are put in bags of 5. How many bags are there?</p> <div> <div> <p><b>Bar model</b></p> <p><math>20 \div 5 = 4</math></p> </div> <div> <p><b>Number shapes</b></p> </div> <div> <p><b>Counters</b></p> </div> <div> <p><b>Ten frames</b></p> </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                  | <div> <div> <p><b>Arrays</b></p> <p><math>20 \div 5 = 4</math></p> </div> <div> <p><b>Bead strings</b></p> </div> <div> <p><b>Number lines</b></p> </div> </div>                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |