



# Targeting Mathematics

## Links to CAPS topics Grade 4


| Content area: Numbers, operations and relationships |                             |                          |  |  |
|---|-----------------------------|--------------------------|--|--|
| Topic   | Sub-topic                   | TM LB pages              | Additional content offered   | Notes  |
| 1.1 Whole numbers                                   | Calculations                | Book 4A<br>pp. 49–74     | <ul style="list-style-type: none"> <li>Range up to 100 000</li> <li>Divide up to 4 digits</li> </ul> | <ul style="list-style-type: none"> <li>Adding and subtracting are not covered in this book, but Book 3A pp. 26–54 can be used.</li> <li>Dollar (\$) currency is used here.</li> <li>Thousand's separator is not used</li> </ul>                    |
|   | Calculation techniques      | Book 4A<br>pp. 1–34      |  | <ul style="list-style-type: none"> <li>No building up and breaking down</li> <li>No doubling and having</li> <li>No inverse operations</li> <li><b>Digital add-on:</b><br/>Number disc (Book 4A p. 13)<br/>More or Less (Book 4A p. 13)</li> </ul> |
|   | Multiples and factors       | Book 4A<br>pp. 35–48     |  |  |
|   | Properties of whole numbers |                          |  |  |
|   | Solving problems            | Book 4A<br>pp. 24, 66–73 |  |  |

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|                       |                                       |                        |   |   |
|-----------------------|---------------------------------------|------------------------|---|---|
| 1.2 Common fractions  | Describing and ordering fractions     | Book 4A<br>pp. 75–92   | <ul style="list-style-type: none"> <li>Mixed numbers covered</li> </ul>                           | <ul style="list-style-type: none"> <li><b>Digital add-on:</b></li> <li>BubbleBurst Mixed Numbers (Book 4A p. 80)</li> <li>Match mixed and improper fractions (Book 4A p. 87)</li> </ul> |
|                       | Calculations with fractions           | Book 4A<br>pp. 93–105  | <ul style="list-style-type: none"> <li>Mixed numbers covered</li> <li>Subtraction done</li> </ul> |   |
|                       | Solving problems                      | Book 4A<br>pp. 106–114 |   |   |
|                       | Equivalent forms                      | –                      |   |   |
| 1.3 Decimal fractions | Recognising, ordering and place value |                        | <ul style="list-style-type: none"> <li>Covered in Book 4B pp. 1–41</li> </ul>                     | <ul style="list-style-type: none"> <li>Not required for Grade 4 (CAPS)</li> </ul>   |
|                       | Calculations                          |                        | <ul style="list-style-type: none"> <li>Covered in Book 4B pp. 47–71</li> </ul>                    | <ul style="list-style-type: none"> <li>Not required for Grade 4 (CAPS)</li> </ul>   |
|                       | Solving problems                      |                        | <ul style="list-style-type: none"> <li>Covered in Book 4B pp. 58–61, 72–76</li> </ul>             | <ul style="list-style-type: none"> <li>Not required for Grade 4 (CAPS)</li> </ul>   |
|                       | Equivalent forms                      |                        | <ul style="list-style-type: none"> <li>Covered in Book 4B pp. 42–46</li> </ul>                    | <ul style="list-style-type: none"> <li>Not required for Grade 4 (CAPS)</li> </ul>   |

### Content area: Patterns, functions and algebra

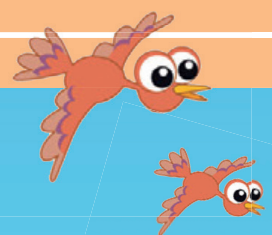
| Topic                  | Sub-topic                       | TM LB pages                                  | Notes  |
|------------------------|---------------------------------|--|--|
| 2.1 Numeric patterns   | Investigate and extend patterns | Book 4A<br>pp. 18–19, 42–48                  | <p>This content is covered extensively in earlier years.</p>  |
|                        | Input and output values         | –  |  |
|                        | Equivalent forms                | –  |  |
| 2.2 Geometric patterns | Investigate and extend patterns | –  |  |
|                        | Input and output values         | –  |  |
|                        | Equivalent forms                | –  |  |
| 2.3 Number sentences   | Number sentences                | Book 4A<br>pp. 52–74<br>Book 4B<br>pp. 47–74 |  |

## Content area: Space and shape (Geometry)

| Topic                        | Sub-topic   | TM LB pages         | Additional content offered  | Notes  |
|------------------------------|---|---------------------|---|--|
| 3.1 Properties of 2D shapes  | Range of shapes   | Book 4A pp. 131–136 | <ul style="list-style-type: none"> <li>Perpendicular and parallel lines (p. 132)</li> </ul>                       | <ul style="list-style-type: none"> <li>Only squares and rectangles</li> <li><b>Digital add-on:</b> Tangram Master (Book 4A p. 136) Square Grid Master (Book 4A p. 138) Drawing Squares and Rectangles Master (Book 4A p. 141)</li> </ul> |
|                              | Characteristics of shapes                                   | Book 4A pp. 133–136 |   |  |
|                              | Drawing shapes  | Book 4A pp. 137–141 |   |  |
|                              | Angles  |                     | <ul style="list-style-type: none"> <li>Find and measure unknown sides and angles (Book 4A pp. 142–146)</li> </ul> | <ul style="list-style-type: none"> <li>Not required for Grade 4 (CAPS)</li> </ul>  |
| 3.2 Properties of 3D objects | Range of objects  | –                   |   | <ul style="list-style-type: none"> <li>Book 2B pp. 46–52 can be used to cover this content.</li> </ul>   |
|                              | Characteristics of objects                                  | –                   |   |  |
|                              | Make 3D models  | –                   |   | <ul style="list-style-type: none"> <li>Book 2B pp. 46–52 can be used to cover this content.</li> </ul>   |
| 3.3 Symmetry                 | Recognise, draw and describe lines of symmetry in 2D shapes | Book 4B pp. 77–88   |   |  |
| 3.4 Transformations          | Build composite shapes                                      | –                   |   |  |
|                              | Tessellations   | –                   |   |  |
|                              | Describe patterns   | –                   |   |  |
| 3.5 Viewing of objects       | Positions and views   | –                   |   |  |
| 3.6 Position and movement    | Location and directions                                     | –                   |   |  |

## Content area: Measurement

| Topic                | Sub-topic   | TM LB pages         | Additional content offered | Notes  |
|----------------------|---|---------------------|----------------------------|--|
| 4.1 Length           | Practical measuring of 2D shapes and 3D objects             | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 138–143 can be used to cover this content. (All units and measuring instruments except trundle wheels are covered.)</li> </ul>  |
|                      | Calculations and problem solving involving length           | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 144–151 can be used to cover this content.</li> </ul>   |
| 4.2 Mass             | Practical measuring of 3D objects                           | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 152–154 can be used to cover this content. (All units and measuring instruments except bathroom scales are covered.)</li> </ul> |
|                      | Calculations and problem solving involving mass             | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 155–158 can be used to cover this content.</li> </ul>   |
| 4.3 Capacity/ volume | Practical measuring of 3D objects                           | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 159–164 can be used to cover this content.</li> </ul>   |
|                      | Calculations and problem solving involving capacity/ volume | -                   |                            | <ul style="list-style-type: none"> <li>Book 3A pp. 165–168 can be used to cover this content.</li> </ul>   |
| 4.4 Time             | Reading time and time instruments                           | Book 4B pp. 133–143 |                            |  |
|                      | Reading calendars   | -                   |                            |  |
|                      | Calculations and problem solving involving time             | Book 4B pp. 144–146 |                            |  |
|                      | History of time   | -                   |                            |  |



|  |                       |                    |  |   |
|--|-----------------------|--------------------|--|---|
| 4.6 Perimeter, surface area and volume | Perimeter             | Book 4B pp. 89–114 | <ul style="list-style-type: none"> <li>all is an extension to the CAPS requirements</li> </ul> | <ul style="list-style-type: none"> <li>Book 3B pp. 86–91 can be used to cover this content.</li> </ul>  |
|  | Measurement of area   | Book 4B pp. 89–114 | <ul style="list-style-type: none"> <li>all is an extension to the CAPS requirements</li> </ul> | <ul style="list-style-type: none"> <li>Book 3B pp. 92–111 can be used to cover this content.</li> </ul> |
|  | Measurement of volume | –                  |  |   |

| Content area: Data handling   |                     |                            |   |
|---|---------------------|----------------------------|---|
| Topic   | TM LB pages         | Additional content offered | Notes   |
| 5.1 Collecting and organising data<br><br>5.2 Representing data<br><br>5.3 Analysing, interpreting and reporting data | Book 4B pp. 115–132 |                            | <ul style="list-style-type: none"> <li>“Representing” is called “presenting”.</li> <li>Dollar currency is used.</li> <li>“Students” instead of “learners” is used.</li> <li>No pie charts or pictograms</li> <li><b>Digital add-on:</b><br/>Line Grapher (p. 129)<br/>Bar Grapher (p. 129)</li> <li>Book 3B pp. 112–128 can also be used for this content.</li> </ul> |
| 5.4 Probability   | –                   |                            |   |

