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Term 1

| Week - Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum sub- elements | | | |
|-------------------|---------|----------------|--------------------------------------|------------------------|----------------------|--|--|--|--|
| Week 1 | Mentals | Mentals unit 1 | | | | | | | |
| Week 2 | Mentals | Mentals unit 2 | | | | | | | |
| Week 3 | 1 | 1:01 | Numbers to 10 000 | Number and algebra | AC9M4N01 | Number and place value | | | |
| Week 3 | 2 | 1:02 | Numbers to 10 000 | Number and algebra | AC9M4N01 | Number and place value | | | |
| Week 3 | 3 | 1:03 | Rounding off | Number and algebra | AC9M4N01 | Number and place value | | | |
| Week 3 | 22 | 2:01 | Number patterns | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking | | | |
| Week 3 | 23 | 2:02 | Multiplication tables revision | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking | | | |
| Week 3 | 24 | 2:03 | x 4 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking | | | |
| Week 4 | 4 | 1:04 | Fractions | Number and algebra | AC9M4N04 | Interpreting fractions | | | |
| Week 4 | 5 | 1:05 | Comparing fractions | Number and algebra | AC9M4N04 | Interpreting fractions | | | |
| Week 4 | 81 | 3:01 | Analog time | Measurement | AC9M4M01 AC9M4M03 | Measuring time | | | |
| Week 4 | 82 | 3:02 | Analog and digital time | Measurement | AC9M4M01 AC9M4M03 | Measuring time | | | |
| Week 4 | 83 | 3:03 | Analog and digital time | Measurement | AC9M4M01 AC9M4M03 | Measuring time | | | |
| Week 5 | 25 | 2:04 | Times tables review | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking | | | |
| Week 5 | 84 | 3:04 | Using a ruler | Measurement | AC9M4M01 | Understanding units of measurement (Length) | | | |
| Week 5 | 85 | 3:05 | Centimetres and millimetres | Measurement | AC9M4M01 | Understanding units of measurement (Length) | | | |
| Week 5 | 86 | 3:06 | Using millimetres | Measurement | AC9M4M01 | Understanding units of measurement (Length) | | | |
| Week 6 | 6 | 1:06 | Improper fractions | Number and algebra | AC9M4N04 | Interpreting fractions | | | |
| Week 6 | 7 | 1:07 | Mixed numbers | Number and algebra | AC9M4N04 | Interpreting fractions | | | |
| Week 6 | 87 | 3:07 | Square centimetres | Measurement | AC9M4M02 | Understanding units of measurement (Area) | | | |
| Week 6 | 88 | 3:08 | The square centimetre | Measurement | AC9M4M02 | Understanding units of measurement (Area) | | | |
| Week 6 | 89 | 3:09 | The square centimetre | Measurement | AC9M4M02 | Understanding units of measurement (Area) | | | |
| Week 7 | 26 | 2:05 | Addition, no trading | Operations and algebra | AC9M4N06 | Additive strategies | | | |
| Week 7 | 27 | 2:06 | Addition and subtraction, no trading | Operations and algebra | AC9M4N06 AC9M4N08 | Additive strategies, Understanding money | | | |
| Week 7 | 118 | 4:01 | Flip, slide and turn | Space | AC9M4SP03 | Understanding geometric properties (2D space) | | | |

Term 1 cont.

| Week 7 | 119 | 4:02 | Angles and 2D shapes | Space | AC9M4M04 | Understanding geometric properties (Angles, 2D space) |
|---------|-----|------|-----------------------------|------------------------|----------------------|--|
| Week 7 | 120 | 4:03 | Comparing angles | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 8 | 8 | 1:08 | Large numbers | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 8 | 9 | 1:09 | Hundreds of thousands | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 8 | 28 | 2:07 | Addition to 99 with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 8 | 29 | 2:08 | Addition to 99 with trading | Operations and algebra | AC9M4N06 AC9M4N08 | Additive strategies, Understanding money |
| Week 8 | 144 | 5:01 | Drawing tables | Statistics | AC9M4ST01 | Interpreting and representing data |
| Week 9 | 10 | 1:10 | Fraction patterns | Number and algebra | AC9M4N04 | Interpreting fractions |
| Week 9 | 11 | 1:11 | Equivalent fractions | Number and algebra | AC9M4N03 | Interpreting fractions |
| Week 9 | 12 | 1:12 | Equivalent fractions | Number and algebra | AC9M4N03 | Interpreting fractions, Number patterns and algebraic thinking |
| Week 9 | 145 | 5:02 | Chance | Probability | AC9M4P01 AC9M4P02 | Understanding chance |
| Week 9 | 146 | 5:03 | Chance | Probability | AC9M4P01 | Understanding chance |
| Week 10 | 90 | 3:10 | Temperature | Measurement | AC9M4M01 | Understanding units of measurement (Temperature) |
| Week 10 | 91 | 3:11 | Recording temperature | Measurement | AC9M4M01 | Understanding units of measurement (Temperature) |

Term 2

| Week - Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum sub- elements |
|-------------------|------|------|---------------------------------|------------------------|----------------------|---|
| Week 11 | 13 | 1:13 | Numbers using millions | Number and algebra | AC9M4N01 | Number and place value, Counting processes |
| Week 11 | 14 | 1:14 | Rounding off | Number and algebra | AC9M4N01 | Number and place value |
| Week 11 | 30 | 2:09 | Jump strategy, + | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 11 | 31 | 2:10 | Jump strategy, – | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 12 | 15 | 1:15 | Hundredths | Number and algebra | AC9M4N01 | Interpreting fractions |
| Week 12 | 16 | 1:16 | Decimals | Number and algebra | AC9M4N01 AC9M4N03 | Number and place value |
| Week 12 | 32 | 2:11 | x 8 tables | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 12 | 33 | 2:12 | x 8 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 13 | 17 | 1:17 | Tenths | Number and algebra | AC9M4N01 AC9M4N03 | Interpreting fractions |
| Week 13 | 18 | 1:18 | Comparing decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 13 | 121 | 4:04 | 3D objects | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 13 | 122 | 4:05 | Prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 14 | 19 | 1:19 | Place value in decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 20 | 1:20 | Place value to hundredths | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 21 | 1:21 | Reading and writing decimals | Number and algebra | AC9M4N01 | Number and place value |
| Week 14 | 123 | 4:06 | Faces of prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 14 | 124 | 4:07 | Prisms and pyramids | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 15 | 34 | 2:13 | Addition, trading 2 tens | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 15 | 35 | 2:14 | Addition involving hundreds | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies |
| Week 15 | 36 | 2:15 | Addition problems to 99 | Operations and algebra | AC9M4N08 | Additive strategies, Understanding money |
| Week 15 | 147 | 5:04 | Using graphs | Statistics | AC9M4ST02 | Interpreting and representing data |
| Week 15 | 148 | 5:05 | Reading graphs | Statistics | AC9M4ST02 | Interpreting and representing data |
| Week 16 | 37 | 2:16 | x 3, x 6 tables | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 16 | 38 | 2:17 | x 3 and x 6 tables | Operations and algebra | AC9M4A02 | Multiplicative strategies, Number patterns and algebraic thinking |
| Week 16 | 92 | 3:12 | Using millilitres | Measurement | AC9M4M01 | Understanding units of measurement (Capacity) |

Term 2 cont.

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|---------|-------|------|----------------------------------|------------------------|----------------------|--|
| Week 16 | 93 | 3:13 | Using millilitres | Measurement | AC9M4M01 | Understanding units of measurement (Capacity) |
| Week 16 | 94 | 3:14 | Using L and mL | Measurement | AC9M4M01 | Understanding units of measurement (Capacity) |
| Week 17 | 39 | 2:18 | Subtraction with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 40 | 2:19 | Subtraction from tens | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 41 | 2:20 | Subtraction with trading | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 17 | 125 | 4:08 | Drawing angles | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 17 | 126 | 4:09 | Angles at quarter and half turns | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 18 | 42 | 2:21 | x 9 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 18 | 43 | 2:22 | x 9 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 18 | 127 | 4:10 | Investigating polygons | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 18 | 128 | 4:11 | Visualising shapes | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 19 | 44 | 2:23 | Addition to 999 | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies |
| Week 19 | 45 | 2:24 | Addition to 999 | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 19 | 46 | 2:25 | Writing algorithms | Operations and algebra | AC9M4N06 AC9M4N08 | Additive strategies |
| Week 19 | 129 | 4:12 | Maps | Space | AC9M4SP02 | Positioning and locating |
| Week 19 | 130 | 4:13 | Creating a map | Space | AC9M4SP02 | Positioning and locating |
| Week 20 | 149 | 5:06 | Ordering events | Probability | AC9M4P01 | Understanding chance |
| Week 20 | 150 | 5:07 | Chance used in games | Probability | AC9M4P01 | Understanding chance |

Term 3

| Week - Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum sub- elements |
|-------------------|------|------|------------------------------------|------------------------|----------------------|---|
| Week 21 | 47 | 2:26 | What's the rule? | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking, Additive strategies |
| Week 21 | 48 | 2:27 | Number patterns | Operations and algebra | AC9M4N09 | Number patterns and algebraic thinking |
| Week 21 | 131 | 4:14 | Cones, cylinders and spheres | Space | AC9M4SP01 | Understanding geometric properties (3D space) |
| Week 21 | 132 | 4:15 | Views of 3D objects | Space | AC9M4SP03 | Understanding geometric properties (3D space) |
| Week 22 | 49 | 2:28 | x 7 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 50 | 2:29 | x 7 tables | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 51 | 2:30 | Multiplication tables review | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 22 | 95 | 3:15 | Measuring mass | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 22 | 96 | 3:16 | Using grams | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 23 | 52 | 2:31 | Subtraction without trading to 999 | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies, Understanding money |
| Week 23 | 53 | 2:32 | Subtraction with trading to 999 | Operations and algebra | AC9M4N06 AC9M4N07 | Additive strategies, Understanding money |
| Week 23 | 97 | 3:17 | Telling time | Measurement | AC9M4M01 | Measuring time |
| Week 23 | 98 | 3:18 | Time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 23 | 99 | 3:19 | am and pm time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 24 | 54 | 2:33 | Subtraction with trading to 999 | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 24 | 55 | 2:34 | Subtraction with 2 trades to 999 | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 24 | 100 | 3:20 | Recording length | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 24 | 101 | 3:21 | Comparing measurements | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 24 | 102 | 3:22 | Using measurement scales | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 25 | 56 | 2:35 | Mental strategies, + and – | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 25 | 57 | 2:36 | Mental strategies, + and – | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 25 | 103 | 3:23 | Recording length | Measurement | AC9M4M01 | Understanding units of measurement (Length) |

Term 3 cont.

| Week 25 | 104 | 3:24 | The square metre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
|---------|-----|------|------------------------------------|------------------------|----------------------------------|---|
| Week 25 | 105 | 3:25 | The square metre | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 26 | 58 | 2:37 | Subtraction from hundreds | Operations and algebra | AC9M4N06 AC9M4N07 AC9M4N08 | Additive strategies, Number patterns and algebraic thinking, Understanding money |
| Week 26 | 59 | 2:38 | Subtraction from hundreds strategy | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 26 | 133 | 4:16 | Compass directions | Space | AC9M4SP02 | Positioning and locating |
| Week 26 | 134 | 4:17 | Compass directions | Space | AC9M4SP02 | Positioning and locating |
| Week 26 | 152 | 5:08 | Tally marks | Statistics | AC9M4ST01 AC9M4ST02 | Interpreting and representing data |
| Week 27 | 60 | 2:39 | Division as repeated subtraction | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 27 | 61 | 2:40 | Understanding division | Operations and algebra | AC9M4N06 | Multiplicative strategies |
| Week 27 | 135 | 4:18 | Describing position | Space | AC9M4SP02 | Positioning and locating |
| Week 27 | 136 | 4:19 | Using position in maps | Space | AC9M4SP02 | Positioning and locating |
| Week 27 | 152 | 5:09 | Collecting information | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 28 | 62 | 2:41 | Division facts | Operations and algebra | AC9M4A02 AC9M4N08 | Multiplicative strategies |
| Week 28 | 63 | 2:42 | Division facts | Operations and algebra | AC9M4A02 | Multiplicative strategies |
| Week 28 | 106 | 3:26 | Timelines | Measurement | AC9M4M03 | Measuring time |
| Week 28 | 107 | 3:27 | Timetables | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 64 | 2:43 | Odd and even numbers | Operations and algebra | AC9M4N02 | Number and place value |
| Week 29 | 65 | 2:44 | Odd and even | Operations and algebra | AC9M4N02 | Number and place value |
| Week 29 | 108 | 3:28 | The calendar | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 109 | 3:29 | The calendar | Measurement | AC9M4M03 | Measuring time |
| Week 29 | 110 | 3:30 | The passage of time | Measurement | AC9M4M01 AC9M4M03 | Measuring time |
| Week 30 | 66 | 2:45 | Division using grid | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 30 | 67 | 2:46 | x and ÷ (by 2, 4, 8) | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |

Term 4

| Week - Program | Page | Unit | Title | Strand | Curriculum Code/s | Curriculum sub- elements |
|-------------------|------|------|------------------------------|------------------------|----------------------|---|
| Week 31 | 68 | 2:47 | Mental strategies, x and ÷ | Operations and algebra | AC9M4N05 AC9M4N06 | Multiplicative strategies, Number patterns and algebraic thinking |
| Week 31 | 69 | 2:48 | Working with numbers | Operations and algebra | AC9M4N06 AC9M4N08 | Number patterns and algebraic thinking |
| Week 31 | 111 | 3:31 | Measuring mass | Measurement | AC9M4M01 | Understanding units of measurement (Mass) |
| Week 31 | 112 | 3:32 | Personal benchmarks | Measurement | AC9M4M01 | Understanding units of measurement |
| Week 31 | 113 | 3:33 | Finding area | Measurement | AC9M4M02 | Understanding units of measurement (Area) |
| Week 32 | 70 | 2:49 | x and ÷ (by 3, 6, 9) | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 32 | 71 | 2:50 | Division facts | Operations and algebra | AC9M4A02 | Number patterns and algebraic thinking |
| Week 32 | 137 | 4:20 | Visualising shapes | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 32 | 138 | 4:21 | Acute and obtuse angles | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 32 | 139 | 4:22 | Angles of any size | Space | AC9M4M04 | Understanding geometric properties (Angles) |
| Week 33 | 72 | 2:51 | Money | Operations and algebra | AC9M4N01 AC9M4N06 | Understanding money |
| Week 33 | 73 | 2:52 | Rounding off money | Operations and algebra | AC9M4N01 AC9M4N06 | Number and place value, Understanding money |
| Week 33 | 74 | 2:53 | Counting change | Operations and algebra | AC9M4N01 AC9M4N06 | Additive strategies, Understanding money |
| Week 33 | 153 | 5:10 | Constructing spinners | Statistics | AC9M4P01 AC9M4P02 | Interpreting and representing data |
| Week 33 | 154 | 5:11 | Unequal outcomes | Probability | AC9M4P01 AC9M4P02 | Understanding chance |
| Week 34 | 75 | 2:54 | Multiplying by 10, 100, 1000 | Operations and algebra | AC9M4N05 | Multiplicative strategies |
| Week 34 | 76 | 2:55 | Dividing by 10, 100, 1000 | Operations and algebra | AC9M4N05 | Multiplicative strategies |
| Week 34 | 140 | 4:23 | Horizontal and vertical | Space | AC9M4SP01 | Understanding geometric properties |
| Week 34 | 141 | 4:24 | Tessellations | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 34 | 142 | 4:25 | Rotational symmetry | Space | AC9M4SP03 | Understanding geometric properties (2D space) |
| Week 35 | 77 | 2:56 | Linking ÷ and x | Operations and algebra | AC9M4A01 | Number patterns and algebraic thinking |
| Week 35 | 78 | 2:57 | Missing number strategies | Operations and algebra | AC9M4A01 | Number patterns and algebraic thinking |

Term 4 cont.

| Week 35 | 114 | 3:34 | Using mm when building | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
|---------|-----|------|----------------------------|------------------------|------------------------|---|
| Week 35 | 115 | 3:35 | Length on a map | Measurement | AC9M4M01 | Understanding units of measurement (Length) |
| Week 35 | 155 | 5:12 | Surveys | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 36 | 79 | 2:58 | Partitioning, + and – | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 36 | 80 | 2:59 | Mental strategies, + and – | Operations and algebra | AC9M4N06 | Additive strategies |
| Week 36 | 116 | 3:36 | Problem solving | Measurement | AC9M4M01 AC9M4N08 | Understanding units of measurement, Additive relations, Multiplicative relations |
| Week 36 | 143 | 4:26 | Spreadsheets | Space | AC9M4SP02 | Positioning and locating |
| Week 36 | 156 | 5:13 | Graphing data | Statistics | AC9M4ST01 AC9M4ST02 | Interpreting and representing data |
| Week 37 | 117 | 3:37 | Problem solving | Measurement | AC9M4M01 AC9M4N08 | Understanding units of measurement, Additive relations, Multiplicative relations |
| Week 37 | 157 | 5:14 | Chance experiments | Probability | AC9M4P01 AC9M4P02 | Understanding chance, Interpreting and representing data |
| Week 37 | 158 | 5:15 | Carry out your own survey | Statistics | AC9M4ST03 | Interpreting and representing data |
| Week 37 | 159 | 5:16 | Chance experiments | Probability | AC9M4P01 AC9M4P02 | Understanding chance |

Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| Strand | Code | Descriptor | Australian Signpost Maths 4 |
|--------|----------|---|---|
| | | | Lessons |
| Number | AC9M4N01 | recognise and extend the application of place value to tenths and hundredths and use the conventions of decimal notation to name and represent decimals | 1:01-2 Numbers to 10 000 1:03 Rounding off 1:08 Large numbers 1:09 Hundreds of thousands 1:13 Numbers using millions 1:14 Rounding off 1:15 Hundredths 1:16 Decimals 1:17 Tenths 1:18 Comparing decimals 1:19 Place value in decimals 1:20 Place value to hundredths 1:21 Reading and writing decimals 2:51 Money 2:52 Rounding off money 2:53 Counting change |
| Number | AC9M4N02 | explain and use the properties of odd and even numbers | 2:43 Odd and even numbers 2:44 Odd and even |
| Number | AC9M4N03 | find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation | 1:11-12 Equivalent fractions 1:16 Decimals 1:17 Tenths |
| Number | AC9M4N04 | count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines | 1:04 Fractions 1:05 Comparing fractions 1:06 Improper fractions 1:07 Mixed numbers 1:10 Fraction patterns |
| Number | AC9M4N05 | solve problems involving multiplying or dividing natural numbers by multiples and powers of 10 without a calculator, using the multiplicative relationship between the place value of digits | 2:47 Mental strategies, x and ÷ 2:54 Multiplying by 10, 100, 1000 2:55 Dividing by 10, 100, 1000 |
| Number | AC9M4N06 | develop efficient strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no remainder | 2:05 Addition, no trading 2:06 Addition and subtraction, no trading 2:07-8 Addition to 99 with trading 2:09 Jump strategy, + 2:10 Jump strategy, - 2:11 x 8 tables 2:13 Addition, trading 2 tens 2:14 Addition involving hundreds 2:16 x 3, x 6 tables 2:18 Subtraction with trading 2:19 Subtracting from tens 2:20 Subtracting with trading 2:3-24 Addition to 999 2:25 Writing algorithms 2:31-32 Subtraction with trading to 999 2:33 Subtraction with trading to 999 2:34 Subtraction with 2 trades to 99 2:35-36 Mental strategies, + and - 2:37 Subtracting from hundreds 2:38 Subtracting from hundreds strategy |

| | | | 2.20 Division on which the last state |
|-------------|-----------|--|---|
| | | | 2:39 Division as repeated subtraction |
| | | | 2:40 Understanding division |
| | | | 2:47 Mental strategies, x and ÷ |
| | | | 2:48 Working with numbers |
| | | | 2:51 Money |
| | | | 2:52 Rounding off money |
| | | | 2:53 Counting change |
| | | | 2:58 Partitioning, + and – |
| | | | 2:59 Mental strategies, + and - |
| | | choose and use estimation and | 2:14 Addition involving hundreds |
| | | rounding to check and explain the | 2:23 Addition to 999 |
| Number | AC9M4N07 | reasonableness of calculations | 2:31-32 Subtraction without trading to |
| | | including the results of financial | 999 |
| | | transactions | 2:37 Subtracting from hundreds |
| | | use mathematical modelling to solve | 2:06 Addition and subtraction, no trading |
| | | practical problems involving additive | 2:08 Addition to 99 with trading |
| | | and multiplicative situations including | 2:15 Addition problems to 99 |
| | | financial contexts; formulate the | 2:25 Writing algorithms |
| Number | AC9M4N08 | problems using number sentences and | 2:37 Subtracting from hundreds |
| | | choose efficient calculation strategies, | 2:41 Division facts |
| | | using digital tools where appropriate; | 2:48 Working with numbers |
| | | interpret and communicate solutions | 3:36-37 Problem solving |
| | | in terms of the situation | 5.50-57 FTODETT SOLVING |
| | | follow and create algorithms involving | |
| | | a sequence of steps and decisions that | 2:01 Number patterns |
| Number | AC9M4N09 | use addition or multiplication to | 2:26 What's the rule? |
| | | generate sets of numbers; identify and | 2:27 Number patterns |
| | | describe any emerging patterns | |
| | | find unknown values in numerical | |
| Algobro | AC0N44A01 | equations involving addition and | 2:56 Linking ÷ and x |
| Algebra | AC9M4A01 | subtraction, using the properties of | 2:57 Missing number strategies |
| | | numbers and operations | |
| | | | 2:02 Multiplication tables revision |
| | | | 2:03 x 4 tables |
| | | | 2:04 Times tables review |
| | | recall and domonstrate proficiency | 2:12 x 8 tables |
| | | recall and demonstrate proficiency | 2:17 x 3 and x 6 tables |
| | | with multiplication facts up to 10 x 10 | 2:21-22 x 9 tables |
| Algebra | AC9M4A02 | and related division facts; extend and | 2:28-29 x 7 tables |
| | | apply facts to develop efficient mental strategies for computation with larger | 2:30 Multiplication tables review |
| | | | 2:41-42 Division facts |
| | | numbers without a calculator | 2:45 Division using grids |
| | | | 2:46 x and ÷ tables (by 2, 4, 8) |
| | | | 2:49 x and ÷ tables (by 3, 6, 9) |
| | | | 2:50 Division facts |
| | | | 3:01 Analog time |
| | | | 3:02-3 Analog and digital time |
| | | International contract of the second | 3:04 Using a ruler |
| | | interpret unmarked and partial units | 3:05 Centimetres and millimetres |
| | | when measuring and comparing | 3:06 Using millimetres |
| Measurement | AC9M4M01 | attributes of length, mass, capacity, | 3:10 Temperature |
| | AC9M4M01 | duration and temperature, using | 3:11 Recording temperature |
| | | scaled and digital instruments and | 3:12-13 Using millilitres |
| | | appropriate units | 3:14 Using L and mL |
| | | | 3:15 Measuring mass |
| | | | 3:16 Using grams |
| | | 1 | |

Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| | | | 3:17 Telling time |
|---------------|---------------|--|---------------------------------------|
| | | | 3:18 Time |
| | | | 3:19 am and pm time |
| | | interpret unmarked and partial units | 3:20 Recording length |
| | | when measuring and comparing | 3:21 Comparing measurements |
| Measurement | AC9M4M01 | attributes of length, mass, capacity, | 3:22 Using measurement scales |
| | cont. | duration and temperature, using | 3:23 Recording length |
| | | scaled and digital instruments and | 3:30 The passage of time |
| | | appropriate units | 3:32 Personal benchmarks |
| | | | 3:34 Using mm when building |
| | | | 3:35 Length on a map |
| | | | 3:36-37 Problem solving |
| | | recognise ways of measuring and | 3:07 Square centimetres |
| Measurement | AC9M4M02 | approximating the perimeter and area | 3:08-9 The square centimetre |
| | | of shapes and enclosed spaces, using | 3:24-25 The square metre |
| | | appropriate formal and informal units | 3:33 Finding area |
| | | | 3:01 Analog time |
| | | | 3:02-3 Analog and digital time |
| | | solve problems involving the duration | 3:18 Time |
| Measurement | AC9M4M03 | of time including situations involving | 3:19 am and pm time |
| | | "am" and "pm" and conversions | 3:26 Timelines |
| | | between units of time | 3:27 Timetables |
| | | | 3:28-29 The calendar |
| | | | 3:30 The passage of time |
| | | estimate and compare angles using | 4:02 Angles and 2D shapes |
| | | angle names including acute, obtuse, | 4:03 Comparing angles |
| Measurement | AC9M4M04 | straight angle, reflex and revolution, | 4:08 Drawing angles |
| | | and recognise their relationship to a | 4:09 Angles at quarter and half turns |
| | | right angle | 4:21 Acute and obtuse angles |
| | | | 4:22 Angles of any size |
| | | | 4:04 3D objects |
| | | represent and approximate composite | 4:05 Prisms and pyramids |
| C | 4.000.446.004 | shapes and objects in the | 4:06 Faces of prisms and pyramids |
| Space | AC9M4SP01 | environment, using combinations of | 4:07 Prisms and pyramids |
| | | familiar shapes and objects | 4:14 Cones, cylinders and spheres |
| | | | 4:23 Horizontal and vertical |
| | | | 4:24 Tessellations |
| | | aroute and interpret stid reference | 4:12 Maps |
| | | create and interpret grid reference | 4:13 Creating a map |
| Space | AC9M4SP02 | systems using grid references and | 4:16-17 Compass directions |
| | | directions to locate and describe | 4:18 Describing position |
| | | positions and pathways | 4:19 Using position in maps |
| | | | 4:26 Spreadsheets |
| | | recognize line and retational | 4:01 Flip, slide and turn |
| | | recognise line and rotational | 4:10 Investigating polygons |
| <u>Crosse</u> | A CON 445 DOG | symmetry of shapes and create | 4:11 Visualising shapes |
| Space | AC9M4SP03 | symmetrical patterns and pictures, | 4:15 Views of 3D objects |
| | | using dynamic geometric software | 4:20 Visualising shapes |
| | | where appropriate | 4:24 Tessellations |
| | | | 4:25 Rotational symmetry |

Australian Signpost Maths Year 4 (AC V9.0) Curriculum Map

| | | acquire data for categorical and | |
|-------------|-----------|---|---|
| Statistics | AC9M4ST01 | discrete numerical variables to address a question of interest or purpose, using digital tools; represent data using many-to-one pictographs, column graphs and other displays or visualisations; interpret and discuss the information that has been created | 5:01 Drawing tables 5:08 Tally marks 5:13 Graphing data |
| Statistics | AC9M4ST02 | analyse the effectiveness of different displays or visualisations in illustrating and comparing data distributions, then discuss the shape of distributions and the variation in the data | 5:04 Using graphs 5:05 Reading graphs 5:08 Tally marks 5:13 Graphing data |
| Statistics | AC9M4ST03 | conduct statistical investigations, collecting data through survey responses and other methods; record and display data using digital tools; interpret the data and communicate the results | 5:09 Collecting information 5:12 Surveys 5:15 Carry out your own survey |
| Probability | AC9M4P01 | describe possible everyday events and the possible outcomes of chance experiments and order outcomes or events based on their likelihood of occurring; identify independent or dependent events | 5:02-3 Chance 5:06 Ordering events 5:07 Chance used in games 5:10 Constructing spinners 5:11 Unequal outcomes 5:14 Chance experiments 5:16 Chance experiments |
| Probability | AC9M4P02 | conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results | 5:02 Chance 5:10 Constructing spinners 5:11 Unequal outcomes 5:14 Chance experiments 5:16 Chance experiments |

What is Australian Signpost Maths?

Australian Signpost Maths is a mathematics program providing direction and support for teaching and learning. The series covers the content and skills presented in the Australian Curriculum (v9) Mathematics F–6.

A Student Book and an online Teacher Resource are provided for Foundation.

For Years 1 to 6, a Student Book, an online Teacher Resource and a Mentals Book are provided for each year level. The online Teacher Resources provide a wealth of support for teachers.

The content has been carefully sequenced within each year level and across the F–6 series to take into account students' expected mathematical development. However, from the rich and varied material provided, teachers can develop individual learning programs to meet the needs of each student.

The Student Books are designed to support explicit teaching methods. Many group activities are provided in Activity, Investigation and Fun spots within the Student Books and the online Teacher Resource.

To maximise the benefits of the program, the Student Book, the online Teacher Resource and the Mentals Book should be used together.



Student Books



Structure of Australian Signpost Maths

In the Year 3 to 6 books, the worksheet pages cover all three elements: Number sense and algebra, Measurement and geometry, and Statistics and probability. These are presented in five chapters:

- Number and algebra Operations and algebra
- Measurement
 Space
- Statistics and probability.

This gives teachers flexibility in programming. The contents cross-reference allows teachers to quickly find the pages where each concept has been covered.

Within the program, explicit teaching, critical and creative thinking, language development and identification and treatment of weaknesses are given high priority.

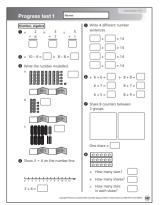
Identification and addressing areas of need

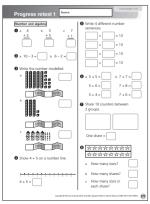
Five progress tests are designed to identify each student's areas of need, and the follow-up program after each of the tests is designed to address these needs. A reference to the relevant worksheet page is given for each test

question. A remediation record page is used to track the student's progress.

These testing resources can be found in the online Teacher Resource.

Parallel progress retests are provided for further testing after remediation has taken place.





Special features of Australian Signpost Maths

The traffic light icons

These are found on the top right of each worksheet page in the Student Books. They allow students to assess their own progress and give feedback to the teacher.

- - **Green:** I found this work easy.
 - **Orange:** I found some work on the page difficult.

Red: I don't understand the work on this page.

Dictionary

Terms used in the Student Book and terms that should be understood at this level are recorded here to provide a reference for students and teachers. This is found on pages xiv–xxii of this book.

ID cards (Years 1 to 6)

These cards review the language of Mathematics by asking students to identify common terms, shapes and symbols. They are designed to be reused and are found in the online Teacher Resource and in the front of the Mentals Books.

Progress tests

These allow the teacher to identify each student's strengths and needs. Crossreferences for each question direct teachers and students to the pages where that work is introduced. Tables are provided to record any follow up and parallel tests are provided for retesting. These tests are in the online Teacher Resource.

Year 4 Consolidation booklet

This booklet is found in the online Teacher Resource. It is designed to reinforce work completed in class and provides practice of important skills and addition and subtraction facts. The booklet can be used when there is limited supervision or when a student finishes classwork early.

Answers

These are supplied in the Student Book and the online Teacher Resource.

Blackline masters (BLM)

References are made to the blackline masters in the online teacher notes provided for each Student Book work page. The BLMs are also accessed online.

Differentiation

Each Student Book work page has a Teacher Resource page to support it. Cross-references direct the teacher to pages where the concept is introduced and developed. These references may be from the Student Book for the previous year, the current year or the next year.

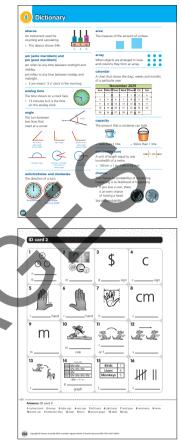
The online Teacher Resource support pages provide additional learning activities for students who need remediation or extension activities. The Blackline Masters provide activities to support students of various learning abilities.

Cartoons

Cartoons are used to motivate and instruct.

Extra support pages

Addition and subtraction facts are reinforced in Extra support 1. In Years 3 and 4, the algorithm strategy pages extend the fast workers. In Years 5 and 6 there is support for decimals, fractions, multiplication and problem solving.







Australian Signpost Maths icons

Signpost icons are used throughout the book as cues to the essential nature of exercises and activities, and as a guide to ways of engaging with them. These icons often indicate alternative or more concrete approaches to dealing with concepts.



This icon highlights **important rules and concepts** occurring throughout the book. It often appears with worked examples.



Activities provide **applications and enrichment**. These activities usually involve the use of concrete materials and partner or group work.



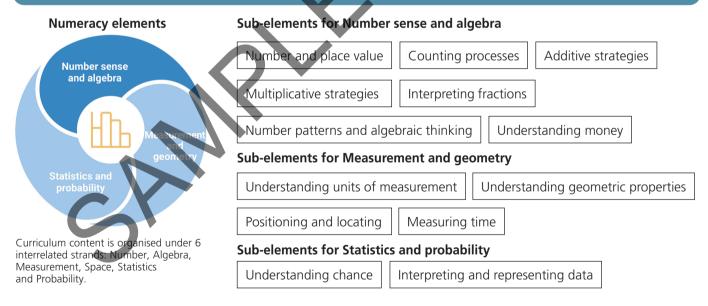
These enjoyable activities are used to **motivate and involve** students in mathematical pursuits. They usually involve games and puzzles.



Investigations allow students to **explore** and **discover** maths concepts.



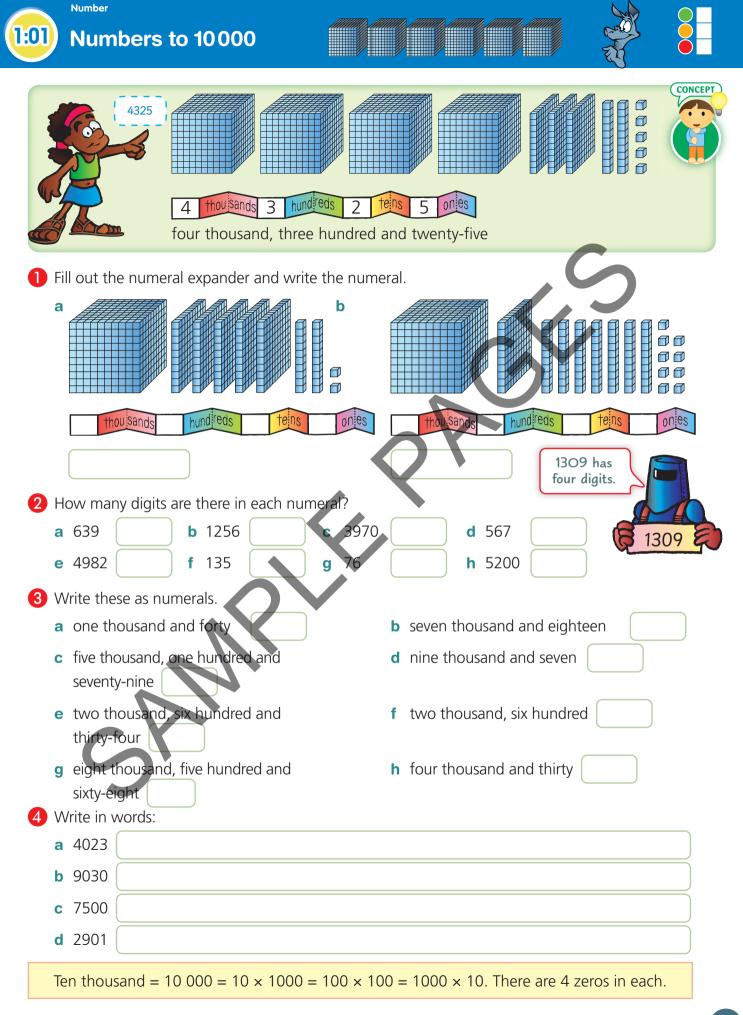
Structure of the Australian Curriculum, F-6 (v9)

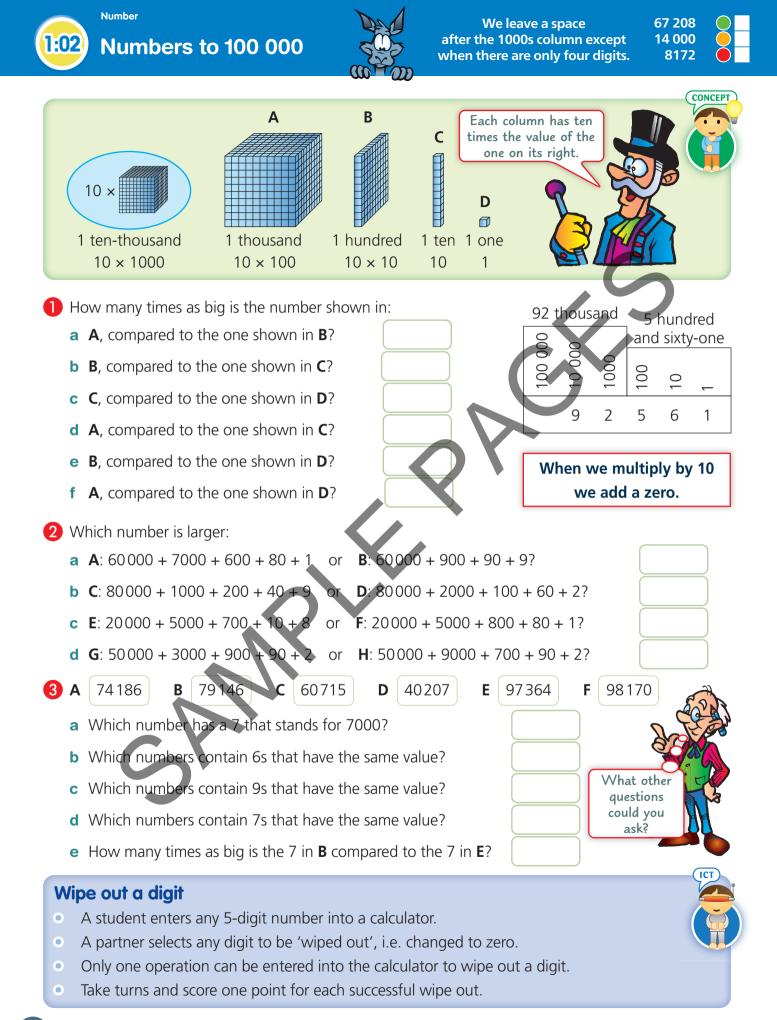


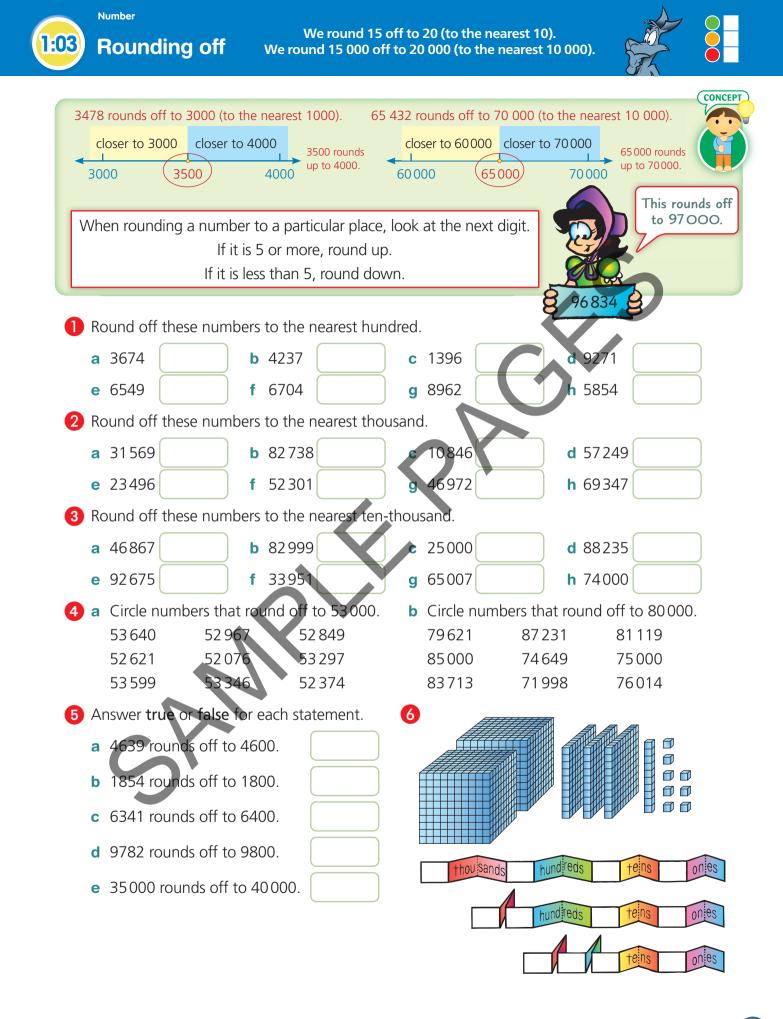
The Curriculum strives to develop in students proficiency in Mathematics, highlighting Understanding, Fluency, Reasoning and Problem solving.

Mathematics content of the Australian Curriculum

- It is important that you download the **GENERAL CAPABILITIES** document from 'Downloads' in the top navigation bar of the website homepage. It contains the tables that list the progression level expectations for each Year, F to 10. It also provides the content of all progression levels.
- The LEARNING AREAS download gives a summary of Content descriptions and Elaborations. CROSS-CURRICULUM PRIORITIES can also be found there.







Number patterns

Algebra

2:01



Use skip counting to continue the patterns on this page. Add on the same number each time.

| 1 | а | 1. | 2, | 3, | 4, | | | | ٦. | | | $\left[\right]$ | | | | | | | | | | |
|---|----|------------------|-------|----------|--------------|---------------|-------|---------------|------------|----------|----------|------------------|-------|--------|------|----------|-------|----------|---------|----------|----|---|
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| | | | | 12, | | | | | ר' ר | | \dashv | $\left[\right]$ | | | | \dashv | | Ľ | | \dashv | | |
| | | | | 15, | | | | | יך ר | | \dashv | $\left[\right]$ | | | | \dashv | | \dashv | | | | |
| | | | | | 24, | | | |) ٦ | | ' | $\left[\right]$ | | | | Ĭ, | | | | | | |
| | | | | | , 28, | | | | ٢. | | ' | $\left[\right]$ | | | | | | 6 | | | | |
| | - | | | 24, | | | | | ٢. | | | $\left[\right]$ | | | | | | | | \leq | | |
| | i | | | 27, | | | | | ٢. | \vdash | ' | $\left[\right]$ | | | | K | | X | | \dashv | | |
| | | | | , 30, | | | | | ٢. | | ۲ | $\left[\right]$ | | \leq | | | | | | \dashv | | |
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| | | 45, | | | | , [| | \prec | | 54, | | | | | |], [| | | | | | |
| | | 63, | | | \geq | , | | | | 72, | | | | | |], [| | | | | | |
| | İ | 81, | 90, | 99, | | , | 4 | \mathcal{D} | j | 90, | 100 | , 1 ⁻ | 10, | | |), [| | | | | | |
| 3 | | | | | | rs to Qu | iesti | on 1. | De | scrib | e the | e pa | atter | n m | nade | by t | he la | ast di | igits o | of ead | :h | |
| | nι | | er in | part: | | | | | | | | | | | | | | | | | | |
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| | f | i | | | | | | | | | | | | | | | | | | | | |
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| 4 | Μ | ake [.] | two | num | ber pa | atterns | of yo | our ov | vn | | | | | | | | | | | | | |
| | а | | | , | , | |),[| | | | b | | |),(| | , | | , | , | | | |





CONCEPT

Step 1: Have someone test you.

Algebra

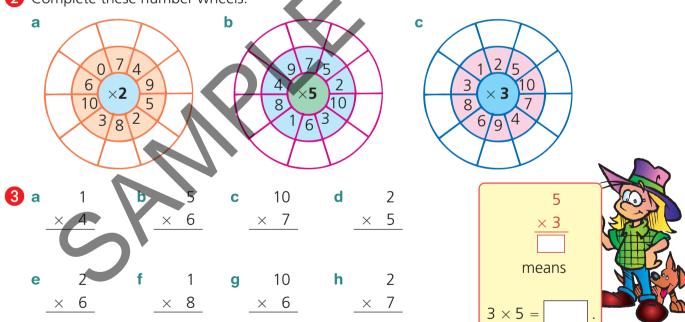
- **Step 2:** For each table you don't know, make a card with the guestion on one side and the answer on the other.
- **Step 3:** Carry these cards with you, testing yourself until you know them.

Use these steps to learn your 1, 2, 3, 5 and 10 times tables.

1 Use skip counting to complete.



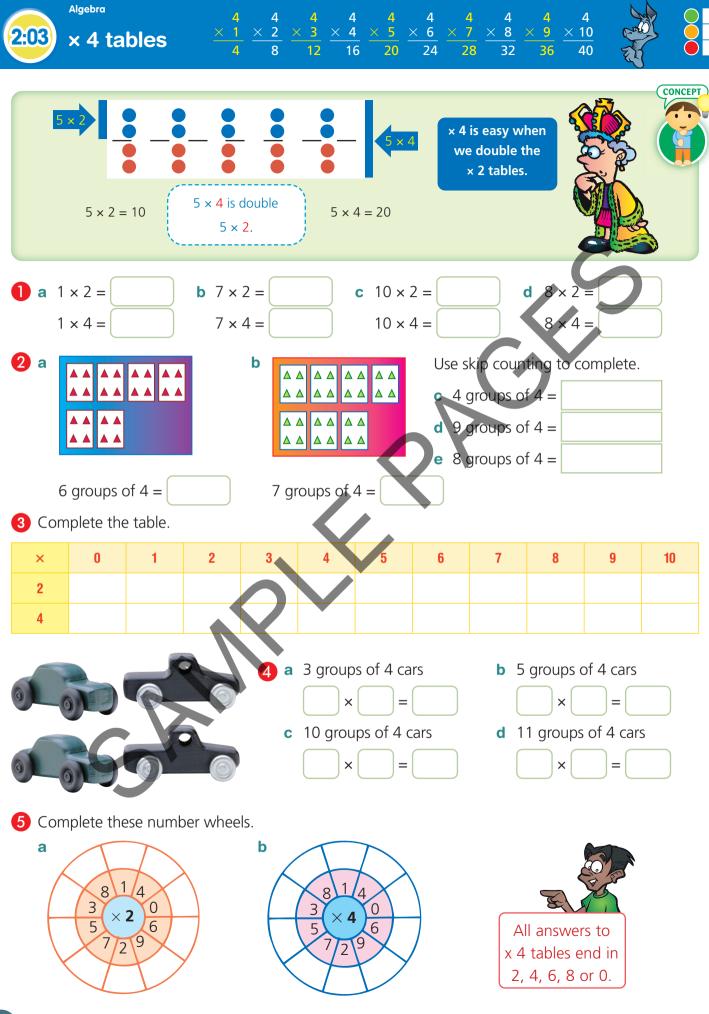
2 Complete these number wheels.



Multiplication cards

- Cards marked 1 to 10 are placed face down in a pile.
- One card is turned at a time. The first to correctly multiply the card by 5, keeps the card. The player with the most cards wins.

ACTIVITY



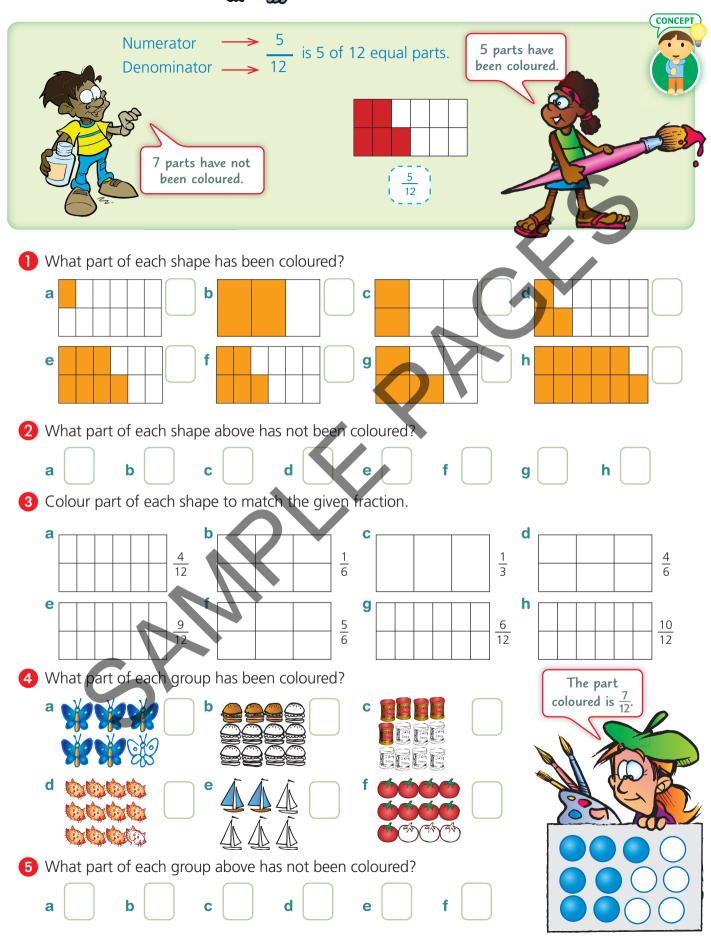
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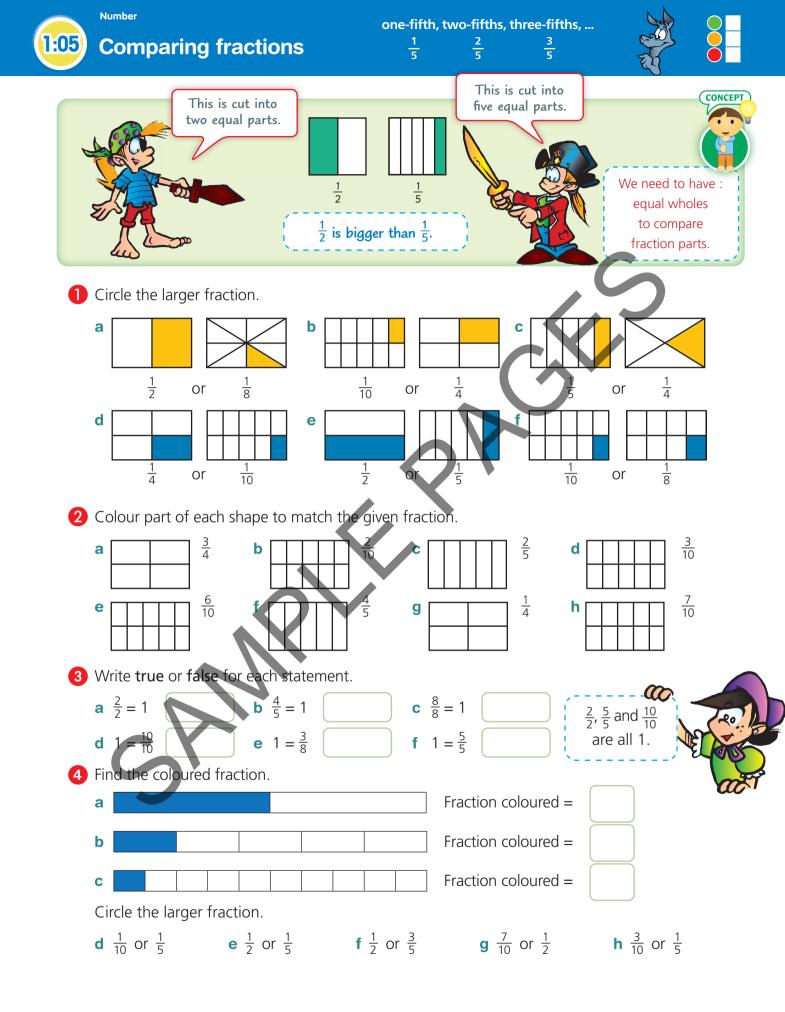


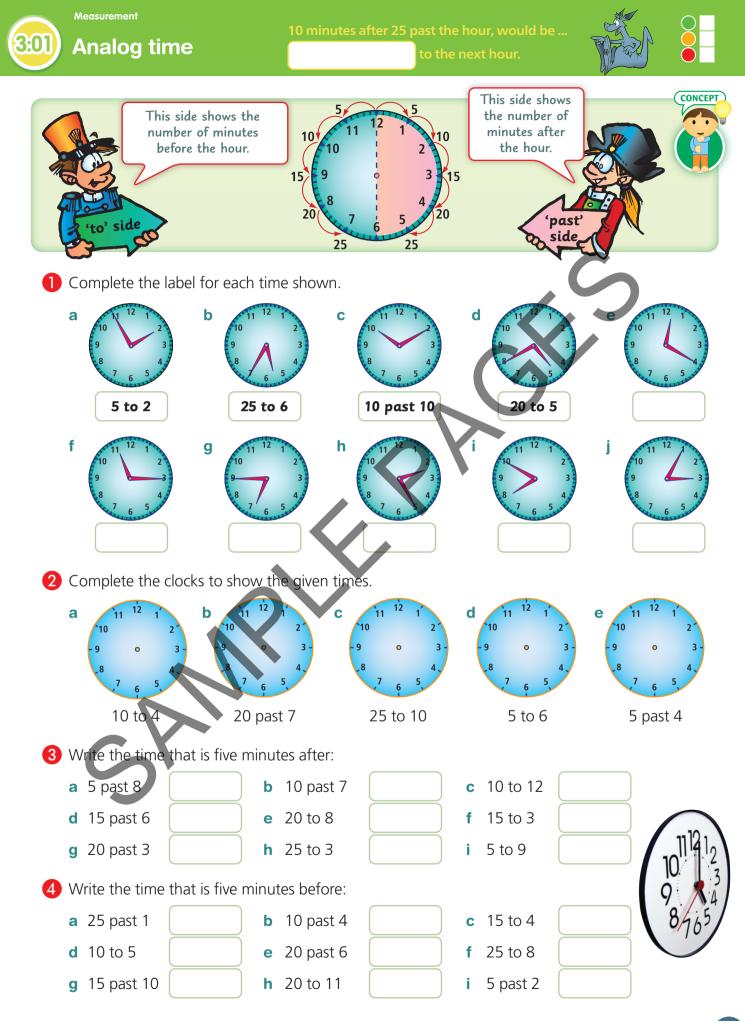
 $\frac{5}{12}$ of this group of stars has been coloured.





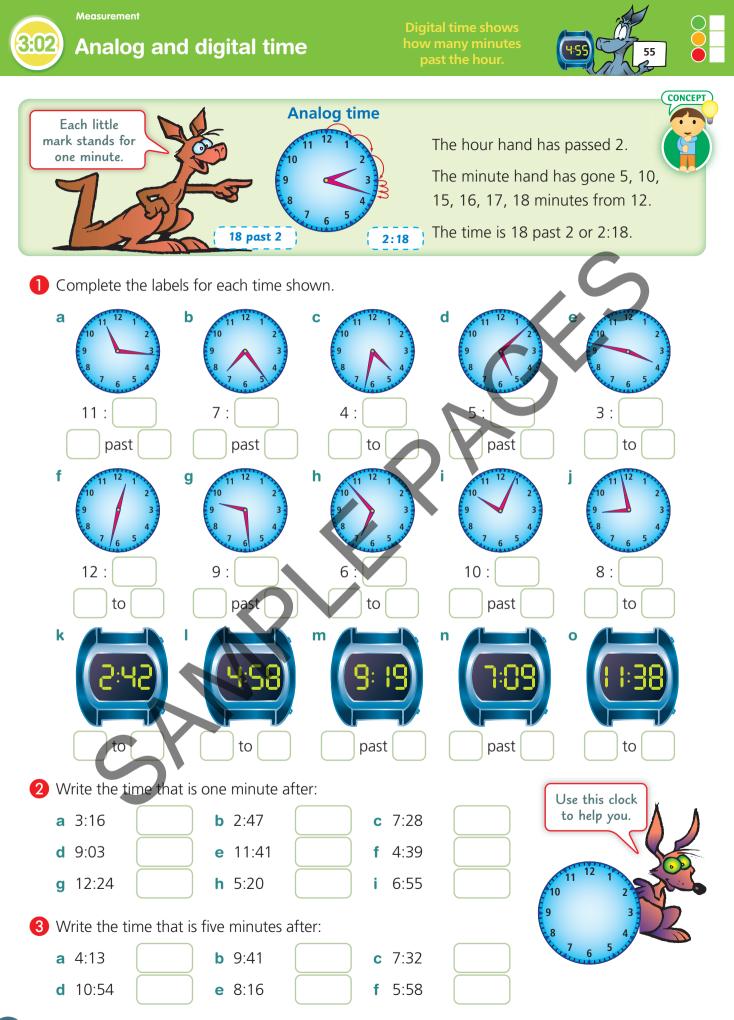
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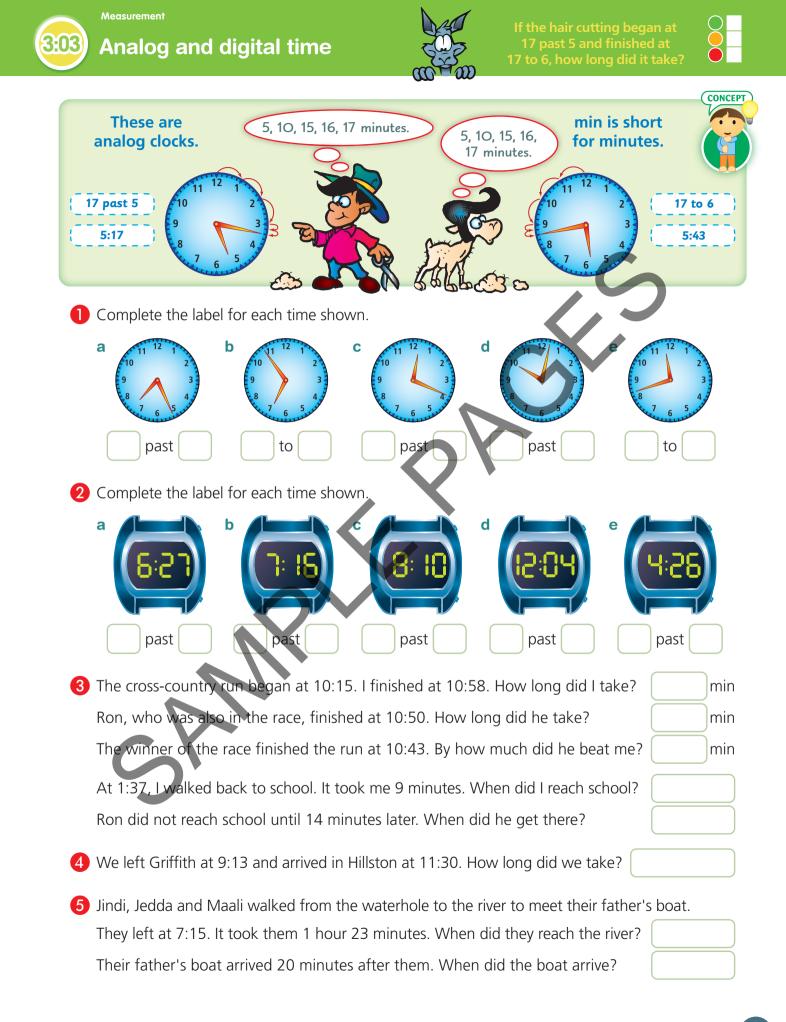


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Introduction

Using the Mentals Books

This book is used most effectively when it aligns with the suggested program in the Student book contents. Each unit of the Mentals Book is programmed to review Student Book content for the previous two weeks (based on the Suggested Program in the Teacher's Book). For example, Unit 15 of the Mentals Book can be set as homework to review weeks 13 and 14 of the Student Book while week 15 is being taught.

Mixed-topic questions

The units present questions in a mixed-topic format to encourage thorough understanding and continuous review.

Presentation

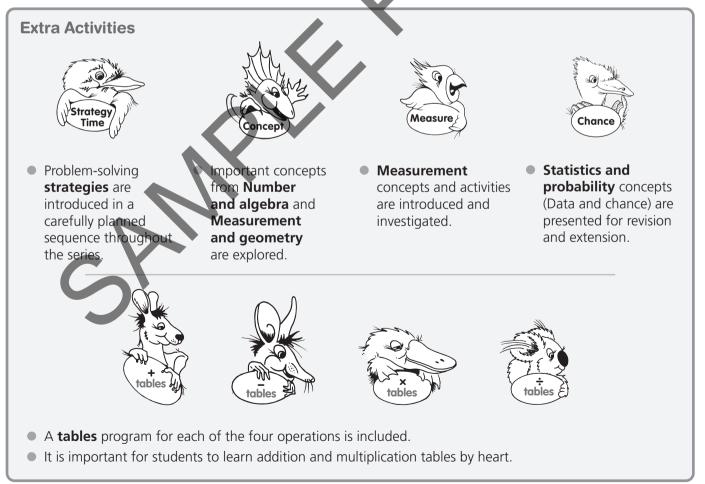
- Number facts are reinforced to encourage instant recall.
- Essential skills are explained.
- The Arithmetic card (page 5) is a useful teaching tool for practising basic number skills.
- ID cards (pages 6 and 7) review the mathematical terms students need to learn.
- Measurement standards and examples (pages 8 and 9) are provided so that students can learn important facts and estimate measurements effectively.

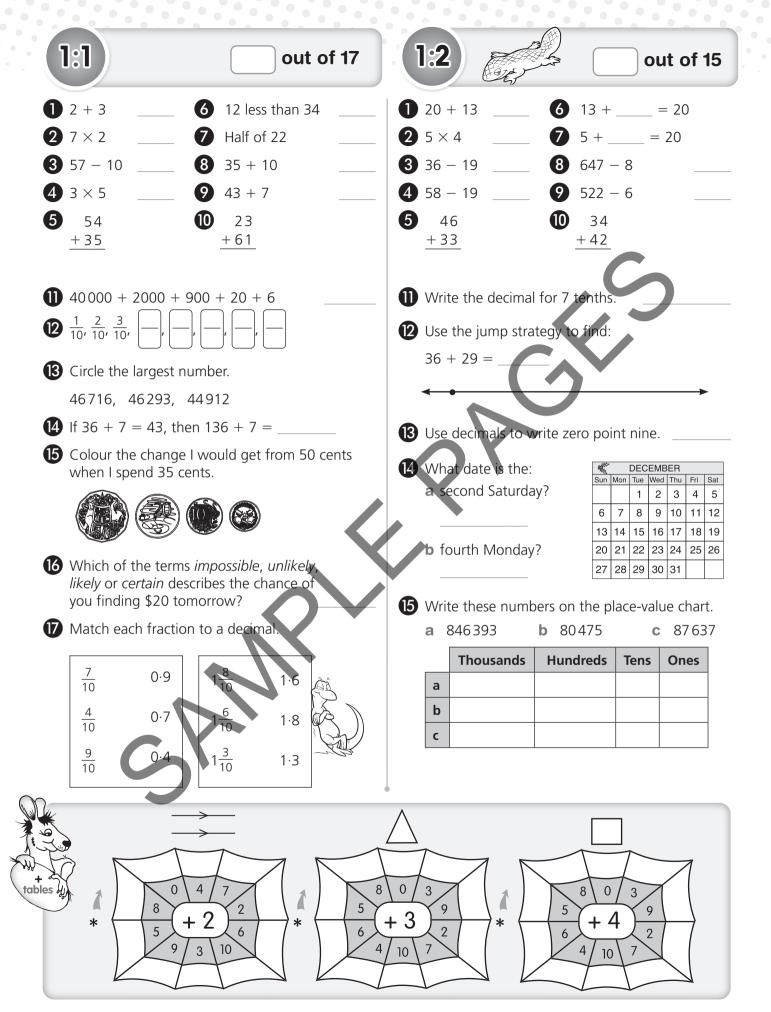
Graded Questions

- Column 1: easier
- Column 2 and 3: harder
- Column 4: Extension and Challenge

Motivation

- There are two lizards hidden on each page for students to find.
 - The header allows students to record their score.





| 1:3 | out of 8 | 1:4 | Exter out of 6 |
|--|--|---|---|
| Write the decimal for | or: | 1 a How many 50c o | coins make \$2? |
| a $\frac{8}{10}$ b $\frac{2}{1}$ | $\frac{2}{0}$ c $\frac{7}{10}$ | b How many 20c o | |
| | | c How many 10c c | |
| d 8 ⁶ / ₁₀ e 3 | 10 | d How many 5c cc | |
| Colour 3 fifths of th | is shape. | 2 Is $8\frac{3}{5}$ equal to $8\frac{4}{10}$ | |
| | | | d cards. She collected If I collected 145 cards, |
| | | | o we have altogether? |
| | - The second sec | 4 Jonkey hit 35 golf | |
| The fraction for 5.8 | is 5 <u>8</u> . | 6 less. How many | did they hit altogether? |
| Write the fraction fo | 10 | 6 | represents 14. |
| | | | represents 24. |
| a 1.8 b | 3.9 — c 6.7 — | | d huu |
| Colour the change | you would get from \$2 whe | What is represente | a by: |
| you spend \$1.35 ce | nts. | | ? |
| | | 6 Lhave 12 stickers. | |
| | | How many people | |
| Sarah drew 4 monst She gave each 5 leg | | a 4 stickers? | b 6 stickers? |
| How many legs wer | | | Chall |
| Bridge to the next te | en to find: | Write what you know | about the number 426930. |
| a 57 + 8 | | | |
| c 69 + 9 | d 35 + 8 | | |
| This is the net of a | | • • • • | |
| | | • • • • | |
| | | •• •• •• | |
| How many digits in | 846901? | • | |
| | | | |
| Fill out this tab | le about yourself, a relativ | e or a friend | .\/_ |
| | | Date: | a a a a a a a a a a a a a a a a a a a |
| | | | |
| Age: | Mass: | kg Shoe size: | |
| 🛛 🖉 Height: | cm Waist: | cm Neck size: | cm E-H- |

