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| **Australian Signpost Maths NSW Stage 2 (Year 3) Syllabus Map** | | | | | |
| **Strand** | **Substrand** | **New NSW Outcome** | **New Content Description** | **Australian Signpost Maths NSW Lessons** |
| Number and Algebra | Representing Numbers Using Place Value A | **MA2-RN-01:** applies an understanding of place value and the role of zero to represent numbers to at least tens of thousands | Whole Numbers: Read, represent and order numbers to thousands | 1:01 Counting  1:02 Counting  1:03 Numbers to 1000  1:04 Numbers to 1000  1:05 Numbers to 1000  1:06 Rounding to the nearest 10  1:07 Rounding to the nearest 100  1:08 Numbers to 1000  1:09 Numbers to 1000  1:12 Numbers to 10 000  1:13 Numbers to 10 000  1:18 Numbers to 10 000  1:19 Place value to 10 000  1:22 Numbers to 10 000  1:23 Numbers to 10 000  1:24 Expanded notation  1:27 Numbers to 10 000  1:28 Numbers over 10 000  1:29 Numbers over 10 000  2:24 Problem solving |
| Whole Numbers: Apply place value to partition and regroup numbers up to 4 digits |
| **MA2-RN-02:** represents and compares decimals up to 2 decimal places using place value |  | **Covered in Year 4** |
| Number and Algebra | Additive Relations A | **MA2-AR-01:** selects and uses mental and written strategies for addition and subtraction involving 2- and 3-digit numbers   **MA2-AR-02**: completes number sentences involving addition and subtraction by finding missing values | Use the principle of equality | 2:03 Addition and subtraction  2:08 Patterns in + and –  2:09 Relating addition and subtraction  2:10 Money  2:11 Shopping  2:12 Money  2:13 Addition to 99  2:14 Jump strategy  2:15 Jump strategy  2:16 Equalities  2:17 Mental strategies  2:24 Problem solving  2:32 Problem solving  2:33 Addition strategies  2:34 Subtraction strategies  2:35 Levelling and constant difference  2:36 Change from $2  2:37 Problem solving  2:38 Addition to 99, no trading  2:39 Subtraction, no trading  2:40 Addition to 99 with trading  2:41 Addition with trading  2:42 Addition with 2-digit numbers  2:43 Addition, trading for 100  2:44 Addition to 999 with one trade  2:45 Addition, two trades  2:46 Subtraction with trading to 99  2:47 Subtracting with trading  2:48 Subtracting with trading  2:49 Checking subtraction by addition |
| Recognise and explain the connection between addition and subtraction |
| Select strategies flexibly to solve addition and subtraction problems of up to 3 digits |
| Represent money values in multiple ways |
| Number and Algebra | Multiplicative Relations A | **MA2-MR-01**: Represents and uses the structure of multiplicative relations to 10 × 10 to solve problems  **MA2-MR-02:** completes number sentences involving multiplication and division by finding missing values | Generate and describe patterns | 1:01 Counting  1:02 Counting  1:16 What’s your rule?  1:17 Number patterns  2:01 Arrays  2:02 Square numbers  2:04 Number facts, x 2  2:05 Number facts, x 5, x 10  2:06 Multiplication facts  2:07 2, 5 and 10 times tables  2:18 Number facts, x 3 extension  2:19 Times tables  2:20 Multiplication facts  2:21 Number facts, x 4  2:22 Times tables  2:23 Number facts, multiplication  2:24 Problem solving  2:25 Inverse operations, x and ÷  2:26 Relating x and ÷  2:27 x and ÷ fact families  2:28 Relating x and ÷  2:29 Linking x and ÷  2:30 ÷ facts from x facts  2:31 x and ÷ tables  2:32 Problem solving  2:37 Problem solving |
| Use arrays to establish multiplication facts from multiples of 2 and 4, 5 and 10 |
| Recall multiplication facts of 2 and 4, 5 and 10 and related division facts |
| Represent and solve problems involving multiplication fact families |
| Number and Algebra | Partitioned Fractions A | **MA2-PF-01:** represents and compares halves, quarters, thirds and fifths as lengths on a number line and their related fractions formed by halving (eighths, sixths and tenths) | Create fractional parts of a length using techniques other than repeated halving | 1:10 Fractions of a group  1:11 Fractions of a whole  1:14 Fractions  1:15 Fractions  1:20 Fractions with circles  1:21 Using fractions  1:25 Fractions of a group  1:26 Fractions of a whole |
| Model and represent unit fractions, and their multiples, to complete a whole on a number line |
| Measurement | Geometric Measure A | **MA2-GM-01:** uses grid maps and directional language to locate positions and follow routes | Position: Interpret movement on a map | 4:06 Position and giving directions  4:07 Giving directions  4:18 Describing position  4:19 Pathways between places  4:24 Using coordinates  4:25 Creating maps |
| Position: Locate positions on grid maps |
| **MA2-GM-02:** measures and estimates lengths in metres, centimetres and millimetres | Length: Measure and compare objects using metres, centimetres and millimetres | 3:01 Revision of length  3:02 Length and width  3:03 Measuring with centimetres  3:10 Metres and centimetres  3:11 Recording length  3:12 Measuring distance  3:13 Measuring length  3:29 The millimetre  3:30 Using the ruler  3:31 Length problem solving  3:34 Standard metric units  3:35 Personal benchmarks |
| **MA2-GM-03:** identifies angles and classifies them by comparing to a right angle | Angles: Identify angles as measures of turn | 4:14 Investigating angles  4:15 Angles  4:16 Right angles  4:17 Angle turns |
| Space | Two-Dimensional (2D) Spatial Structure A | **MA2-2DS-01:** compares two-dimensional shapes and describes their features | 2D shapes: Compare and describe features of two-dimensional shapes | 4:08 Regular and irregular shapes  4:09 Parallel and perpendicular lines  4:10 The rhombus and the kite  4:11 Shapes revision  4:20 Trapeziums and parallelograms  4:21 Features of 2D shapes |
| **MA2-2DS-02:** performs transformations by combining and splitting two-dimensional shapes | 2D shapes: Transform shapes by reflecting, translating and rotating | 4:01 Symmetry  4:02 Properties of 2D shapes  4:03 Symmetry around us  4:28 Flip, slide, turn  4:29 Using flip, slide and turn  4:30 Tessellations |
| **MA2-2DS-03:** estimates, measures and compares areas using square centimetres and square metres | Area: Use square centimetres to measure and estimate the areas of rectangles | 3:21 Area  3:22 Area using square centimetres  3:23 Square centimetres  3:24 Area problems  3:27 The square metre  3:28 The square metre  3:34 Standard metric units  3:35 Personal benchmarks |
| Area: Use square metres to measure and estimate the areas of rectangles |
| Space | Three-Dimensional (3D) Spatial Structure A | **MA2-3DS-01:** makes and sketches models and nets of three-dimensional objects including prisms and pyramids | 3D objects: Make models of three-dimensional objects to compare and describe key features | 4:04 Properties of 3D objects  4:05 Properties of 3D objects  4:12 Prisms and cylinders  4:13 Pyramids  4:22 Spheres  4:23 3D objects  4:26 3D models  4:27 The net of a cube |
| **MA2-3DS-02:** estimates, measures and compares capacities (internal volumes) using litres, millilitres and volumes using cubic centimetres | Volume: Measure and order containers using litres | 3:07 Capacity review  3:08 Estimating the litre  3:09 The litre  3:25 Using litres  3:26 Capacity problem solving  3:32 The cubic centimetre  3:33 The cubic centimetre  3:35 Personal benchmarks |
| Volume: Compare objects using familiar metric units of volume |
| Measurement | Non-Spatial Measure A | **MA2-NSM-01:** estimates, measures and compares the masses of objects using kilograms and grams | Mass: Compare objects using the kilogram | 3:17 The kilogram  3:18 Comparing masses  3:19 Using the kilogram  3:20 Mass problem solving  3:34 Standard metric units  3:35 Personal benchmarks |
| **MA2-NSM-02:** represents and interprets analog and digital time in hours, minutes and seconds | Time: Represent and read analog time | 3:04 Clocks  3:05 Analog time  3:06 Analog time  3:14 Time, minutes past  3:15 Time, minutes to  3:16 Time, minutes past and to  3:36 The calendar  3:37 The calendar |
| Statistics | Data A | **MA2-DATA-01:** collects discrete data and constructs graphs using a given scale   **MA2-DATA-02:** interprets data in tables, dot plots and column graphs | Collect discrete data | 5:01 Dot plots  5:02 Tables  5:03 Tables and graphs  5:04 Picture graphs  5:08 Making graphs  5:09 Reading graphs and tables  5:11 Class investigation  5:14 Drawing graphs  5:15 Surveys  5:16 Carry out your own survey  5:17 Researching data  5:18 Repeating an experiment |
| Organise and display data using tables and graphs |
| Interpret and compare data |
| Probability | Chance A | **MA2-CHAN-01:** records and compares the results of chance experiments | Identify possible outcomes from chance experiments | 5:05 Chance  5:06 Chance outcomes  5:07 Chance outcomes  5:12 Predicting outcomes  5:13 Ordering events |