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| ***Irrawang Public School Maths Scope and Sequence 2019 – Stage 1*** | | | | | | | |
| ***Semester 1*** | | | | | | | |
| ***Term 1*** | | | | ***Term 2*** | | | |
| ***Unit Number*** | ***Topic – Year 1 (Part 1)*** | ***Topic – Year 2 (Part 2)*** | ***Register*** | ***Unit Number*** | ***Topic – Year 1 (Part 1)*** | ***Topic – Year 2 (Part 2)*** | ***Register*** |
| Please be aware that Parts 1 & 2 of syllabus outcomes are indicative only and do not ***necessarily*** directly relate to Years 1 & 2 expectations. | |
| ***1*** | ***Assessment***   * Review PLAN 2 from previous year and group students. * Generate Learning Plans | ***Assessment***   * Review PLAN 2 from previous year and group students. * Generate Learning Plans |  | ***1*** | ***Whole Number 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by ones from a two-digit number * Partition two-digit numbers using place value * Read, write and order two-digit numbers * Read and use ordinal names to at least ‘thirty-first’ * Recognise, describe and order Australian coins according to their value | ***Whole Number 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by twos, threes, fives and tens from any starting point * Partition numbers of up to three digits using place value * Read, write and order three-digit numbers * Recognise, count and order Australian coins and notes according to their value |  |
| ***2*** | ***Time 1***  ***MA1-1WM MA1-2WM MA1-13MG***   * Name and order months and seasons * Use a calendar to identify the date and determine the number of days in each month * Tell time to the half-hour | ***Time 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-13MG***   * Use a calendar to determine duration in months, weeks and days * Use informal units to measure and compare the durations of events * Experience activities with duration of one hour, half/ quarter of an hour, one minute and a few seconds * Tell time to the quarter-hour, using the language of ‘past’ and ‘to’ |  | ***2*** | ***Patterns and Algebra 1***  ***MA1-1 WM MA1-2 WM MA1-8NA***   * Recognise, copy, continue, create and describe increasing and decreasing number patterns * Recognise, copy, create, continue and describe repeating patterns of objects or symbols * Model and describe odd and even numbers | ***Patterns and Algebra 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-8NA***   * Describe patterns with numbers and identify missing elements * Find missing numbers in number sentences involving one operation of addition or subtraction |  |
| ***3*** | ***Whole Number 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by ones from a two-digit number * Partition two-digit numbers using place value * Read, write and order two-digit numbers * Read and use ordinal names to at least ‘thirty-first’ * Recognise, describe and order Australian coins according to their value | ***Whole Number 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by twos, threes, fives and tens from any starting point * Partition numbers of up to three digits using place value * Read, write and order three-digit numbers * Recognise, count and order Australian coins and notes according to their value |  | ***3*** | ***Addition & Subtraction 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Model addition and subtraction using concrete materials * Recognise and recall combinations of numbers that add to numbers up to 20 * Model and apply the commutative property for addition * Record number sentences using drawings, words, numerals and the symbols +, – and = * Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers * Use the equals sign to record equivalent number sentences | ***Addition & Subtraction 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Make connections between addition and subtraction * Use and record a range of mental strategies for addition and subtraction of two-digit numbers * Solve word problems involving addition and subtraction |  |
| ***4*** | ***Addition & Subtraction 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Model addition and subtraction using concrete materials * Recognise and recall combinations of numbers that add to numbers up to 20 * Model and apply the commutative property for addition * Record number sentences using drawings, words, numerals and the symbols +, – and = * Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers * Use the equals sign to record equivalent number sentences | ***Addition & Subtraction 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Make connections between addition and subtraction * Use and record a range of mental strategies for addition and subtraction of two-digit numbers * Solve word problems involving addition and subtraction |  | ***4*** | ***Multiplication and Division 1***  ***MA1-1WM MA1-6NA***   * Rhythmic and skip count by twos, fives and tens from zero * Model and use equal ‘groups of’ objects as a strategy for multiplication * Model division by sharing a collection equally into a given number of groups to determine the number in each group * Model division by sharing a collection equally into groups of a given size to determine the number of groups | ***Multiplication and Division 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-6NA***   * Model and use repeated addition as a strategy for multiplication * Model and use arrays described in terms of ‘rows’ and ‘columns’ as a strategy for multiplication * Model and use groups, arrays and repeated subtraction as strategies for division * Record using drawings, words and numerals |  |
| ***5*** | ***Length and Area 1***  ***MA1-1WM MA1-3WM MA1-9MG MA1-10MG***  ***Length***   * Use uniform informal units to measure, compare and estimate lengths   ***Area***   * Use uniform informal units to measure and estimate areas * Record areas by referring to the number and type of uniform informal unit used | ***Length and Area 2***  ***MA1-1WM MA1-3WM MA1-9MG MA1-10MG***  ***Length***   * Record lengths by referring to the number and type of uniform informal unit used * Compare and order shapes/objects based on length measured using uniform informal units * Recognise the need for formal units to measure length * Use metres and centimetres to measure and estimate lengths and distances * Record lengths using the abbreviations m and cm   ***Area***   * Compare and order surfaces based on area * measured using uniform informal units |  | ***5*** | ***Area and Mass 1***  ***MA1-1WM MA1-3WM MA1-10MG MA1-12MG***  ***Area***   * Use uniform informal units to measure and estimate areas * Record areas by referring to the number and type of uniform informal unit used   ***Mass***   * Place objects on either side of a pan balance to obtain a level balance * Use a pan balance to compare two objects based on mass | ***Area and Mass 2***  ***MA1-1WM MA1-2WM MA1-3WM***  ***MA1-10MG MA1-12MG***  ***Area***   * Compare and order surfaces based on area measured using uniform informal units   ***Mass***   * Use uniform informal units to measure, compare and estimate the masses of objects * Record masses by referring to the number and type of uniform informal unit used |  |
| ***6*** | ***2D Space 1***  ***MA1-1WM MA1-2WM MA1-15MG***   * Identify horizontal, vertical and parallel lines * Identify and name triangles, quadrilaterals, pentagons, hexagons and octagons presented in different orientations, in pictures and the environment * Use the terms ‘side’ and ‘vertex’ to describe and compare two-dimensional shapes | ***2D Space 2***  ***MA1-1WM MA1-2WM MA1-15MG***   * Make and draw two-dimensional shapes in different orientations * Identify, perform and record the result of one step ‘slides’ and ‘flips’ * Make symmetrical designs with a variety of materials * Identify, perform, describe and record the result of full, half and quarter ‘turns’ |  | ***6*** | ***Position 1***  ***MA1-1WM MA1-16MG***   * Give and follow directions to move to familiar locations and to position objects * Use the terms ‘left’ and ‘right’ to describe position in relation to self and from the perspective of a person facing in the opposite direction * Describe a path from one location to another | ***Position 2***  ***MA1-1WM MA1-16MG***   * Interpret simple maps of familiar locations * Represent the position of objects in models, photographs and drawings |  |
| ***7*** | ***3D Space 1***  ***MA1-1WM MA1-14MG***   * Distinguish between flat and curved surfaces * Use the term ‘faces’ to describe flat surfaces with straight edges * Identify cones, cubes, cylinders, spheres and prisms presented in different orientations, in pictures and the environment * Recognise that three-dimensional objects look different from different vantage-points | ***3D Space 2***  ***MA1-1WM MA1-14MG***   * Use the terms ‘flat surface’, ‘curved surface’, ‘face’, ‘edge’ and ‘vertex’ appropriately to describe three dimensional objects * Recognise faces of three-dimensional objects as two-dimensional shapes * Distinguish between three-dimensional objects and two-dimensional shapes * Represent three-dimensional objects in models and drawings |  | ***7*** | ***Fractions and Decimals 1***  ***MA1-1WM MA1-7NA***   * Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections * Use fraction notation ½ | ***Fractions and Decimals 2***  ***MA1-1WM MA1-3WM MA1-7NA***   * Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections * Use fraction notation ¼ and ⅛ |  |
| ***8*** | ***Volume and Capacity 1***  ***MA1-1WM MA1-3WM MA1-11MG***   * Use uniform informal units to measure, compare and estimate capacities * Use uniform informal units to measure and estimate volumes * Record capacities and volumes by referring to the number and type of uniform informal unit used | ***Volume and Capacity 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-11MG***   * Compare and order objects based on capacity and volume measured using uniform informal units |  | ***8*** | ***Data and Chance 1***  ***MA1-1WM MA1-3WM MA1-17SP MA1-18SP***  ***Data***   * Collect data and track what has been counted * Create data displays using objects and pictures (one-to-one correspondence) and interpret them   ***Chance***   * Recognise the element of chance in familiar situations * Describe chance events using everyday language | ***Data and Chance 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-17SP MA1-18SP***  ***Data***   * Pose questions and collect categorical data * Create data displays using lists, tables and picture graphs (one-to-one correspondence) and interpret them   ***Chance***   * Identify practical activities and everyday events that involve chance * Describe events as ‘likely’ or ‘unlikely’ * Distinguish between ‘possible’ and ‘impossible’ events * Identify some events as ‘certain’ or ‘impossible’ |  |

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| ***Irrawang Public School Maths Scope and Sequence 2019 – Stage 1*** | | | | | | | |
| ***Semester 2*** | | | | | | | |
| ***Term 3*** | | | | ***Term 4*** | | | |
| ***Unit Number*** | ***Topic – Year 1 (Part 1)*** | ***Topic – Year 2 (Part 2)*** | ***Register*** | ***Unit Number*** | ***Topic – Year 1 (Part 1)*** | ***Topic – Year 2 (Part 2)*** | ***Register*** |
| ***1*** | ***Length 1***  ***MA1-1WM MA1-3WM MA1-9MG***   * Use uniform informal units to measure, compare and estimate lengths | ***Length 2***  ***MA1-1WM MA1-3WM MA1-9MG***   * Record lengths by referring to the number and type of uniform informal unit used * Compare and order shapes/objects based on length measured using uniform informal units * Recognise the need for formal units to measure length * Use metres and centimetres to measure and estimate lengths and distances * Record lengths using the abbreviations m and cm |  | ***1*** | ***Fractions and Decimals 1***  ***MA1-1WM MA1-7NA***   * Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections * Use fraction notation ½ | ***Fractions and Decimals 2***  ***MA1-1WM MA1-3WM MA1-7NA***   * Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections * Use fraction notation ¼ and ⅛ |  |
| ***2*** | ***Area 1***  ***MA1-1WM MA1-10MG***   * Use uniform informal units to measure and estimate areas * Record areas by referring to the number and type of uniform informal unit used | ***Area 2***  ***MA1-1WM MA1-3WM MA1-10MG***   * Compare and order surfaces based on area measured using uniform informal units |  | ***2*** | ***Patterns and Algebra 1***  ***MA1-1WM MA1-2WM MA1-8NA***   * Recognise, copy, continue, create and describe increasing and decreasing number patterns * Recognise, copy, create, continue and describe repeating patterns of objects or symbols * Model and describe odd and even numbers | ***Patterns and Algebra 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-8NA***   * Describe patterns with numbers and identify missing elements * Find missing numbers in number sentences involving one operation of addition or subtraction |  |
| ***3*** | ***Multiplication and Division 1***  ***MA1-1WM MA1-6NA***   * Rhythmic and skip count by twos, fives and tens from zero * Model and use equal ‘groups of’ objects as a strategy for multiplication * Model division by sharing a collection equally into a given number of groups to determine the number in each group * Model division by sharing a collection equally into groups of a given size to determine the number of groups | ***Multiplication and Division 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-6NA***   * Model and use repeated addition as a strategy for multiplication * Model and use arrays described in terms of ‘rows’ and ‘columns’ as a strategy for multiplication * Model and use groups, arrays and repeated subtraction as strategies for division * Record using drawings, words and numerals |  | ***3*** | ***Mass 1***  ***MA1-1WM MA1-12MG***   * Place objects on either side of a pan balance to obtain a level balance * Use a pan balance to compare two objects based on mass | ***Mass 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-12MG***   * Use uniform informal units to measure, compare and estimate the masses of objects * Record masses by referring to the number and type of uniform informal unit used |  |
| ***4*** | ***2D Space and 3D Space 1***  ***MA1-1WM MA1-3WM MA1-14MG MA1-15MG***  ***2D space***   * Identify horizontal, vertical and parallel lines * Identify and name triangles, quadrilaterals, pentagons, hexagons and octagons presented in different orientations, in pictures and the environment * Use the terms ‘side’ and ‘vertex’ to describe and compare two-dimensional shapes   ***3D Space***   * Distinguish between flat and curved surfaces * Use the term ‘faces’ to describe flat surfaces with straight edges * Identify cones, cubes, cylinders, spheres and prisms presented in different orientations, in pictures and the environment * Recognise that three-dimensional objects look different from different vantage-points | ***2D Space and 3D Space 2***  ***MA1-1WM MA1-3WM MA1-14MG MA1-15MG***  ***2D space***   * Make and draw two-dimensional shapes in different orientations * Identify, perform and record the result of one step ‘slides’ and ‘flips’ * Make symmetrical designs with a variety of materials * Identify, perform, describe and record the result of full, half and quarter ‘turns’   ***3D space***   * Use the terms ‘flat surface’, ‘curved surface’, ‘face’, ‘edge’ and ‘vertex’ appropriately to describe three dimensional objects * Recognise faces of three-dimensional objects as two-dimensional shapes * Distinguish between three-dimensional objects and two-dimensional shapes * Represent 3D objects in models and drawings |  | ***4*** | ***Chance 1***  ***MA1-1WM MA1-3WM MA1-18SP***   * Recognise the element of chance in familiar situations * Describe chance events using everyday language | ***Chance 2***  ***MA1-1WM MA1-18SP***   * Identify practical activities and everyday events that involve chance * Describe events as ‘likely’ or ‘unlikely’ * Distinguish between ‘possible’ and ‘impossible’ events * Identify some events as ‘certain’ or ‘impossible’ |  |
| ***5*** | ***Volume and Capacity 1***  ***MA1-1WM MA1-3WM MA1-11MG***   * Use uniform informal units to measure, compare and estimate capacities * Use uniform informal units to measure and estimate volumes * Record capacities and volumes by referring to the number and type of uniform informal unit used | ***Volume and Capacity 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-11MG***   * Compare and order objects based on capacity and volume measured using uniform informal units |  | ***5*** | ***Data 1***  ***MA1-1WM MA1-3WM MA1-17SP***   * Collect data and track what has been counted * Create data displays using objects and pictures (one-to-one correspondence) and interpret them | ***Data 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-17SP***   * Pose questions and collect categorical data * Create data displays using lists, tables and picture graphs (one-to-one correspondence) and interpret them |  |
| ***6*** | ***Time 1***  ***MA1-1WM MA1-2WM MA1-13MG***   * Name and order months and seasons * Use a calendar to identify the date and determine the number of days in each month * Tell time to the half-hour | ***Time 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-13MG***   * Use a calendar to determine duration in months, weeks and days * Use informal units to measure and compare the durations of events * Experience activities with duration of one hour, half/ quarter of an hour, one minute and a few seconds * Tell time to the quarter-hour, using the language of ‘past’ and ‘to’ |  | ***6*** | ***Whole Number 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by ones from a two-digit number * Partition two-digit numbers using place value * Read, write and order two-digit numbers * Read and use ordinal names to at least ‘thirty-first’ * Recognise, describe and order Australian coins according to their value | ***Whole Number 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by twos, threes, fives and tens from any starting point * Partition numbers of up to three digits using place value * Read, write and order three-digit numbers * Recognise, count and order Australian coins and notes according to their value |  |
| ***7*** | ***Addition & Subtraction 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Model addition and subtraction using concrete Materials * Recognise and recall combinations of numbers that add to numbers up to 20 * Model and apply the commutative property for addition * Record number sentences using drawings, words, numerals and the symbols +, – and = * Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers * Use the equals sign to record equivalent number sentences | ***Addition & Subtraction 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Make connections between addition and subtraction * Use and record a range of mental strategies for addition and subtraction of two-digit numbers * Solve word problems involving addition and subtraction |  | ***7*** | ***Addition & Subtraction 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Model addition and subtraction using concrete Materials * Recognise and recall combinations of numbers that add to numbers up to 20 * Model and apply the commutative property for addition * Record number sentences using drawings, words, numerals and the symbols +, – and = * Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers * Use the equals sign to record equivalent number sentences | ***Addition & Subtraction 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-5NA***   * Make connections between addition and subtraction * Use and record a range of mental strategies for addition and subtraction of two-digit numbers * Solve word problems involving addition and subtraction |  |
| ***8*** | ***Whole Number 1***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by ones from a two-digit number * Partition two-digit numbers using place value * Read, write and order two-digit numbers * Read and use ordinal names to at least ‘thirty-first’ * Recognise, describe and order Australian coins according to their value | ***Whole Number 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-4NA***   * Count forwards and backwards by twos, threes, fives and tens from any starting point * Partition numbers of up to three digits using place value * Read, write and order three-digit numbers * Recognise, count and order Australian coins and notes according to their value |  | ***8*** | ***Multiplication and Division 1***  ***MA1-1WM MA1-6NA***   * Rhythmic and skip count by twos, fives and tens from zero * Model and use equal ‘groups of’ objects as a strategy for multiplication * Model division by sharing a collection equally into a given number of groups to determine the number in each group * Model division by sharing a collection equally into groups of a given size to determine the number of groups | ***Multiplication and Division 2***  ***MA1-1WM MA1-2WM MA1-3WM MA1-6NA***   * Model and use repeated addition as a strategy for multiplication * Model and use arrays described in terms of ‘rows’ and ‘columns’ as a strategy for multiplication * Model and use groups, arrays and repeated subtraction as strategies for division * Record using drawings, words and numerals |  |
| ***9*** | ***Position 1***  ***MA1-1WM MA1-16MG***   * Give and follow directions to move to familiar locations and to position objects * Use the terms ‘left’ and ‘right’ to describe position in relation to self and from the perspective of a person facing in the opposite direction * Describe a path from one location to another | ***Position 2***  ***MA1-1WM MA1-16MG***   * Interpret simple maps of familiar locations * Represent the position of objects in models, photographs and drawings |  | ***9*** | ***Assessment***   * Review PLAN 2 from year. | ***Assessment***   * Review PLAN 2 from year. |  |