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| ***Irrawang Public School Maths Scope and Sequence 2019 – Stage 3*** |
| ***Semester 1*** |
| ***Term 1*** | ***Term 2*** |
| ***Unit Number*** | ***Topic – Year 5 (Part 1)*** | ***Topic – Year 6 (Part 2)*** | ***Register*** | ***Unit Number*** | ***Topic – Year 5 (Part 1)*** | ***Topic – Year 6 (Part 2)*** | ***Register*** |
| Please be aware that Parts 1 & 2 of syllabus outcomes are indicative only and do not ***necessarily*** directly relate to Years 5 & 6 expectations. |
| ***1*** | ***Assessment**** Review PLAN 2 data from previous year and group students.
* Generate Learning Plans

***Time 1******MA3-1WM MA3-13MG**** Convert between 12- and 24-hour time
* Determine and compare the duration of events
 | ***Assessment**** Review PLAN 2 data from previous year and group students.
* Generate Learning Plans

***Time 2******MA3-1WM MA3-13MG MA3-2WM**** Interpret and use timetables
* Draw and interpret timelines using a given scale
 |  | ***1*** | ***2D Space 1 & 3D Space 1******MA3-1WM MA3-15MG MA3-2WM MA3-14MG MA3-3WM******2D Space 1**** Identify and name the special quadrilaterals presented in different orientations
* Identify and describe shapes as ‘regular’ or ‘irregular’
* Describe and compare features of shapes, including the special quadrilaterals
* Identify and draw lines of symmetry on shapes

***3D Space 1**** Identify, describe and compare features of prisms, pyramids, cylinders, cones and spheres
* Make models of three-dimensional objects
* Create nets from everyday packages
 | ***2D Space 2 & 3D Space 2******MA3-1WM MA3-15MG MA3-2WM MA3-14MG******2D Space 2**** -Combine common shapes to form other shapes and record the arrangement
* -Split common shapes into other shapes and record the result
* -Use transformations to create and describe
* symmetrical designs
* -Create and record tessellating designs

***3D Space 2**** -Represent three-dimensional objects in drawings showing depth
* -Sketch three-dimensional objects from different views
* -Interpret and make drawings of objects on isometric grid paper
 |  |
| ***2*** | ***Whole Number 1******MA3-1WM MA3-4NA MA3-2WM**** Read, write and order numbers of any size
* State the place value of digits in numbers of any size
* Record numbers of any size using expanded notation
* Determine factors and multiples of whole numbers
 | ***Whole Number 2******MA3-1WM MA3-3WM MA3-2WM MA3-4NA**** Recognise the location of negative numbers in relation to zero on a number line
* Identify and describe prime and composite numbers
* Model and describe square and triangular numbers
 |  | ***2*** | ***Mass 1 and Volume & Capacity 1******MA3-1WM MA3-12MG MA3-2WM MA3-11MG MA3-3WM******Mass 1**** Recognise the need for tonnes to measure mass
* Record masses using the abbreviations t, kg and g
* Select and use appropriate instruments and units to measure mass
* Distinguish between ‘gross mass’ and ‘net mass’
* Solve problems involving mass

***Volume and Capacity 1**** Use cubic centimetres and cubic metres to measure and estimate volumes
* Select and use appropriate units to measure volume
* Record volumes using the abbreviations cm3 and m3
 | ***Mass 2 and Volume & Capacity 2******MA3-1WM MA3-12MG MA3-2WM MA3-11MG MA3-3WM**** Record mass using decimal notation to three decimal places
* Convert between tonnes, kilograms and grams

***Volume and Capacity 2**** Connect volume and capacity and their units of measurement
* Record volumes and capacities using decimal notation to three decimal places
* Convert between millilitres and litres
* Develop a strategy to find volumes of rectangular prisms and record the strategy in words
 |  |
| ***3*** | ***Addition & Subtraction 1******MA3-1WM MA3-3WM MA3-2WM MA3-5NA**** Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size
* Use estimation to check answers to calculations
* Solve word problems and record the strategy used, including problems involving money
* Create a simple budget
 | ***Addition & Subtraction 2******MA3-1WM MA3-3WM MA3-2WM MA3-5NA**** Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used
 |  | ***3*** | ***Patterns & Algebra 1******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers
* Find missing numbers in number sentences involving multiplication or division on one or both sides of the equals sign
 | ***Patterns & Algebra 2******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Continue, create, record and describe geometric and number patterns in words
* Determine the rule for geometric and number patterns in words and use the rule to calculate values
* Locate and record the coordinates of points in all four quadrants of the Cartesian plane
 |  |
| ***4*** | ***Multiplication & Division 1******MA3-1WM MA3-3WM MA3-2WM MA3-6NA**** Use and record a range of mental and written strategies to multiply by one- and two-digit operators
* Use the formal algorithm for multiplication by one and two-digit operators
* Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder
* Solve word problems and record the strategy used
* Interpret remainders in division problems
* Use estimation to check answers to calculations
 | ***Multiplication & Division 1******MA3-1WM MA3-3WM MA3-2WM MA3-6NA**** Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used
* Recognise and use grouping symbols
* Apply the order of operations in calculations
 |  | ***4*** | ***Chance 1 & Data 1******MA3-1WM MA3-19SP MA3-3WM MA3-18SP******Chance 1**** List outcomes of chance experiments involving equally likely outcomes
* Represent probabilities using fractions
* Recognise that probabilities range from 0 to 1

***Data 1**** Collect categorical and numerical data by observation and by survey
* Construct data displays, including tables, column graphs, dot plots and line graphs, appropriate for the data type
* Describe and interpret data presented in tables, column graphs, dot plots and line graphs
 | ***Chance 2 & Data 2******MA3-1WM MA3-19SP MA3-2WM MA3-18SP MA3-3WM******Chance 2**** Compare observed frequencies in chance experiments with expected frequencies
* Represent probabilities using fractions, decimals and percentages
* Conduct chance experiments with both small and large numbers of trials

***Data 2**** Interpret and create two-way tables
* Interpret side-by-side column graphs
* Compare a range of data displays to determine the most appropriate display for particular sets of data
* Interpret and critically evaluate data presented in digital media and elsewhere
 |  |
| ***5*** | ***Length 1******MA3-1WM MA3-9MG MA33WM**** Use the kilometre to measure lengths and distances
* Select and use appropriate instruments and units to measure lengths
* Record lengths and distances using the abbreviations km, m, cm and mm
* Find perimeters of common two-dimensional shapes and record the strategy

*(integrate Addition & Subtraction 1)* | ***Length 2******MA3-1WM MA3-3WM MA3-2WM MA3-9MG**** Record lengths and distances using decimal notation to three decimal places
* Convert between kilometres, metres, centimetres and millimetres
* Solve problems involving length and perimeter

*(integrate Addition & Subtraction 2)* |  | ***5*** | ***Whole Number 1******MA3-1WM MA3-4NA MA3-2WM**** Read, write and order numbers of any size
* State the place value of digits in numbers of any size
* Record numbers of any size using expanded notation
* Determine factors and multiples of whole numbers
 | ***Whole Number 2******MA3-1WM MA3-3WM MA3-2WM MA3-4NA**** Recognise the location of negative numbers in relation to zero on a number line
* Identify and describe prime and composite numbers
* Model and describe square and triangular numbers
 |  |
| ***6*** | ***Area 1*** ***MA3-1WM MA3 10MG**** Recognise the need for square kilometres and hectares to measure area
* Record areas using the abbreviations km2 and ha
* Develop a strategy to find areas of rectangles (including squares) and record the strategy in words

*(integrate Multiplication & Division 1)* | ***Area 2******MA3-1WM MA3-10MG MA3-2WM**** Develop a strategy to find areas of triangles and record the strategy in words
* Solve problems involving areas of rectangles (including squares) and triangles

*(integrate Multiplication & Division 2)* |  | ***6*** | ***Addition & Subtraction 1******MA3-1WM MA3-3WM MA3-2WM MA3-5NA**** Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size
* Use estimation to check answers to calculations
* Solve word problems and record the strategy used, including problems involving money
* Create a simple budget
 | ***Addition & Subtraction 2******MA3-1WM MA3-3WM MA3-2WM MA3-5NA**** Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used
 |  |
| ***7*** | ***Fractions & Decimals 1******MA3-1WM MA3-3WM MA3-2WM MA3-7NA**** Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
* Express mixed numerals as improper fractions and vice versa
* Model and represent strategies to add and subtract fractions with the same denominator
* Apply the place value system to represent thousandths as decimals
* Compare, order and represent decimals with up to three decimal places
 | ***Fractions & Decimals 2******MA3-1WM MA3-3WM MA3-2WM MA3-7NA**** Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
* Determine, generate and record equivalent fractions
* Write fractions in their ‘simplest form’
* Add and subtract fractions, included mixed numerals, with the same or related denominators
* Multiply fractions by whole numbers
* Find a simple fraction of a quantity
* Use mental, written and calculator strategies to add and subtract decimals with up to three decimal places
* Use mental, written and calculator strategies to multiply decimals by one- and two-digit whole numbers
* Use mental, written and calculator strategies to divide decimals by one-digit whole numbers
* Multiply and divide decimals by 10, 100 and 1000
* Solve word problems involving fractions and decimals, including money problems
* Make connections between equivalent percentages, fractions and decimals
* Use mental, written and calculator strategies to calculate 10%, 25% and 50% of quantities, including as discounts
 |  | ***7*** | ***Multiplication & Division 1******MA3-1WM MA3-3WM MA3-2WM MA3-6NA**** Use and record a range of mental and written strategies to multiply by one- and two-digit operators
* Use the formal algorithm for multiplication by one and two-digit operators
* Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder
* Solve word problems and record the strategy used
* Interpret remainders in division problems
* Use estimation to check answers to calculations
 | ***Multiplication & Division 1******MA3-1WM MA3-3WM MA3-2WM MA3-6NA**** Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used
* Recognise and use grouping symbols
* Apply the order of operations in calculations
 |  |
| ***8*** | ***Position******MA3-1WM MA3-17MG**** Use grid-referenced maps to locate and describe positions
* Follow a sequence of directions, including compass directions, to find a particular location on a map
* Describe routes using landmarks and directional language
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 |  | ***8*** | ***Assessment**** Update PLAN data.
* Generate Learning Plans

***Time 1******MA3-1WM MA3-13MG**** Convert between 12- and 24-hour time
* Determine and compare the duration of events
 | ***Assessment**** Update PLAN data.
* Generate Learning Plans

***Time 2******MA3-1WM MA3-13MG MA3-2WM**** Interpret and use timetables
* Draw and interpret timelines using a given scale
 |  |
| ***9*** | ***Angles 1******MA3-1WM MA3-16MG**** Identify and describe angles as measures of turn
* Compare angle sizes in everyday situations
* Identify ‘perpendicular’ lines and ‘right angles’
 | ***Angles 2******MA3-1WM MA3-16MG**** Draw and classify angles as acute, obtuse, straight, reflex or a revolution
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| ***Irrawang Public School Maths Scope and Sequence 2019 – Stage 3*** |
| ***Semester 2*** |
| ***Term 3*** | ***Term 4*** |
| ***Unit Number*** | ***Topic – Year 5 (Part 1)*** | ***Topic – Year 6 (Part 2)*** | ***Register*** | ***Unit Number*** | ***Topic – Year 5 (Part 1)*** | ***Topic – Year 6 (Part 2)*** | ***Register*** |
| ***1*** | ***Fractions & Decimals 1******MA3-1WM MA3-3WM MA3-2WM MA3-7NA**** Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
* Express mixed numerals as improper fractions and vice versa
* Model and represent strategies to add and subtract fractions with the same denominator
* Apply the place value system to represent thousandths as decimals
* Compare, order and represent decimals with up to three decimal places
 | ***Fractions & Decimals 2******MA3-1WM MA3-3WM MA3-2WM MA3-7NA**** Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
* Determine, generate and record equivalent fractions
* Write fractions in their ‘simplest form’
* Add and subtract fractions, included mixed numerals, with the same or related denominators
* Multiply fractions by whole numbers
* Find a simple fraction of a quantity
* Use mental, written and calculator strategies to add and subtract decimals with up to three decimal places
* Use mental, written and calculator strategies to multiply decimals by one- and two-digit whole numbers
* Use mental, written and calculator strategies to divide decimals by one-digit whole numbers
* Multiply and divide decimals by 10, 100 and 1000
* Solve word problems involving fractions and decimals, including money problems
* Make connections between equivalent percentages, fractions and decimals
* Use mental, written and calculator strategies to calculate 10%, 25% and 50% of quantities, including as discounts
 |  | ***1*** | ***Position******MA3-1WM MA3-17MG**** Use grid-referenced maps to locate and describe positions
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| ***2*** | ***Angles 1******MA3-1WM MA3-16MG**** Identify and describe angles as measures of turn
* Compare angle sizes in everyday situations
* Identify ‘perpendicular’ lines and ‘right angles’

*(integrate 2D Space 1)* | ***Angles 2******MA3-1WM MA3-16MG**** Draw and classify angles as acute, obtuse, straight, reflex or a revolution

*(integrate 2D Space 2)* |  | ***2*** | ***2D Space 1******MA3-1WM MA3-15MG MA3-2WM MA3-3WM**** Identify and name the special quadrilaterals presented in different orientations
* Identify and describe shapes as ‘regular’ or ‘irregular’
* Describe and compare features of shapes, including the special quadrilaterals
* Identify and draw lines of symmetry on shapes
 | ***2D Space 2******MA3-1WMMA3-15MG MA3-2WM**** Combine common shapes to form other shapes and record the arrangement
* Split common shapes into other shapes and record the result
* Use transformations to create and describe symmetrical designs
* Create and record tessellating designs
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| ***3*** | ***Volume & Capacity 1******MA3-1WM MA3-11MG MA3-3WM**** Use cubic centimetres and cubic metres to measure and estimate volumes
* Select and use appropriate units to measure volume
* Record volumes using the abbreviations cm3 and m3
 | ***Volume & Capacity 2******MA3-1WM MA3-3WM MA3-2WM MA3-11MG**** Connect volume and capacity and their units of measurement
* Record volumes and capacities using decimal notation to three decimal places
* Convert between millilitres and litres
* Develop a strategy to find volumes of rectangular prisms and record the strategy in words
 |  | ***3*** | ***3D Space 1******MA3-1WMMA3-14MG MA3 3WM**** Identify, describe and compare features of prisms, pyramids, cylinders, cones and spheres
* Make models of three-dimensional objects
* Create nets from everyday packages
 | ***3D Space 2******MA3-1WM MA3-14MG**** Represent three-dimensional objects in drawings showing depth
* Sketch three-dimensional objects from different views
* Interpret and make drawings of objects on isometric grid paper
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| ***4*** | ***Mass 1******MA3-1WMMA3-12MG MA3-2WM**** Recognise the need for tonnes to measure mass
* Record masses using the abbreviations t, kg and g
* Select and use appropriate instruments and units to measure mass
* Distinguish between ‘gross mass’ and ‘net mass’
* Solve problems involving mass
 | ***Mass 2******MA3-1WM MA3-12MG MA3-2WM**** Record mass using decimal notation to three decimal places
* Convert between tonnes, kilograms and grams
 |  | ***4*** | ***3D Space 1******MA3-1WMMA3-14MG MA3 3WM**** Identify, describe and compare features of prisms, pyramids, cylinders, cones and spheres
* Make models of three-dimensional objects
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 | ***3D Space 2******MA3-1WM MA3-14MG**** Represent three-dimensional objects in drawings showing depth
* Sketch three-dimensional objects from different views
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| ***5*** | ***Patterns & Algebra 1******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers
* Find missing numbers in number sentences involving multiplication or division on one or both sides of the equals sign
 | ***Patterns & Algebra 2******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Continue, create, record and describe geometric and number patterns in words
* Determine the rule for geometric and number patterns in words and use the rule to calculate values
* Locate and record the coordinates of points in all four quadrants of the Cartesian plane
 |  | ***5*** | ***Whole Number 1*** ***MA3-1WM MA3-4NA MA3-2WM**** Read, write and order numbers of any size
* State the place value of digits in numbers of any size
* Record numbers of any size using expanded notation
* Determine factors and multiples of whole numbers

*(integrate Addition & Subtraction 1)* | ***Whole Number 2*** ***MA3-1WM MA3-3WM MA3-2WM MA3-4NA**** Recognise the location of negative numbers in relation to zero on a number line
* Identify and describe prime and composite numbers
* Model and describe square and triangular numbers

*(integrate Addition & Subtraction 2)* |  |
| ***6*** | ***Chance 1******MA3-1WM MA3-19SP**** List outcomes of chance experiments involving equally likely outcomes
* Represent probabilities using fractions
* Recognise that probabilities range from 0 to 1
 | ***Chance 2******MA3-1WM MA3-3WM MA3-2WM MA3-19SP**** Compare observed frequencies in chance experiments with expected frequencies
* Represent probabilities using fractions, decimals and percentages
* Conduct chance experiments with both small and large numbers of trials
 |  | ***6*** | ***Area 1 & Length 1******MA3-1WM MA3-10MG MA3-3WM MA3-9MG**** Recognise the need for square kilometres and hectares to measure area
* Record areas using the abbreviations km2 and ha
* Develop a strategy to find areas of rectangles (including squares) and record the strategy in words

***Length 1**** Use the kilometre to measure lengths and distances
* Select and use appropriate instruments and units to measure lengths
* Record lengths and distances using the abbreviations km, m, cm and mm
* Find perimeters of common two-dimensional shapes and record the strategy

*(integrate Addition & Subtraction 1 and Fractions & Decimals 1)* | ***Area 2 & Length 2******MA3-1WM MA3-3WM MA3-2WM MA3-10MG**** Develop a strategy to find areas of triangles and record the strategy in words
* Solve problems involving areas of rectangles (including squares) and triangles

***Length 2**** Record lengths and distances using decimal notation to three decimal places
* Convert between kilometres, metres, centimetres and millimetres
* Solve problems involving length and perimeter

*(integrate Addition & Subtraction 2 and Fractions & Decimals 2)* |  |
| ***7*** | ***Length 1******MA3-1WM MA3-9MG MA33WM**** Use the kilometre to measure lengths and distances
* Select and use appropriate instruments and units to measure lengths
* Record lengths and distances using the abbreviations km, m, cm and mm
* Find perimeters of common two-dimensional shapes and record the strategy

*(integrate Addition & Subtraction 1 and Fractions & Decimals 1)* | ***Length 2******MA3-1WM MA3-3WM MA3-2WM MA3-9MG**** Record lengths and distances using decimal notation to three decimal places
* Convert between kilometres, metres, centimetres and millimetres
* Solve problems involving length and perimeter

*(integrate Addition & Subtraction 2 and Fractions & Decimals 2)* |  | ***7*** | ***Chance 1 & Data 1******MA3-1WM MA3-19SP MA3-3WM MA3-18SP******Chance 1**** List outcomes of chance experiments involving equally likely outcomes
* Represent probabilities using fractions
* Recognise that probabilities range from 0 to 1

***Data 1**** Collect categorical and numerical data by observation and by survey
* Construct data displays, including tables, column graphs, dot plots and line graphs, appropriate for the data type
* Describe and interpret data presented in tables, column graphs, dot plots and line graphs
 | ***Chance 2 & Data 2******MA3-1WM MA3-19SP MA3-2WM MA3-18SP MA3-3WM******Chance 2**** Compare observed frequencies in chance experiments with expected frequencies
* Represent probabilities using fractions, decimals and percentages
* Conduct chance experiments with both small and large numbers of trials

***Data 2**** Interpret and create two-way tables
* Interpret side-by-side column graphs
* Compare a range of data displays to determine the most appropriate display for particular sets of data
* Interpret and critically evaluate data presented in digital media and elsewhere
 |  |
| ***8*** | ***Area 1*** ***MA3-1WM MA3 10MG**** Recognise the need for square kilometres and hectares to measure area
* Record areas using the abbreviations km2 and ha
* Develop a strategy to find areas of rectangles (including squares) and record the strategy in words

*(integrate Multiplication & Division 1 and Fractions & Decimals 1)* | ***Area 2******MA3-1WM MA3-10MG MA3-2WM**** Develop a strategy to find areas of triangles and record the strategy in words
* Solve problems involving areas of rectangles (including squares) and triangles

*(integrate Multiplication & Division 2 and Fractions & Decimals 2)* |  | ***8*** | ***Patterns & Algebra 1******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers
* Find missing numbers in number sentences involving multiplication or division on one or both sides of the equals sign
 | ***Patterns & Algebra 2******MA3-1WM MA3-3WM MA3-2WM MA3-8NA**** Continue, create, record and describe geometric and number patterns in words
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| ***9*** | ***Data 1******MA3-1WM MA3-3WM MA3-18SP**** Collect categorical and numerical data by observation and by survey
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 | ***Data 2******MA3-1WM MA3-3WM MA3-18SP**** Interpret and create two-way tables
* Interpret side-by-side column graphs
* Compare a range of data displays to determine the most appropriate display for particular sets of data
* Interpret and critically evaluate data presented in digital media and elsewhere
 |  | ***9*** | ***Mass 1 and Volume & Capacity 1******MA3-1WM MA3-12MG MA3-2WM MA3-11MG MA3-3WM******Mass 1**** Recognise the need for tonnes to measure mass
* Record masses using the abbreviations t, kg and g
* Select and use appropriate instruments and units to measure mass
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***Volume and Capacity 1**** Use cubic centimetres and cubic metres to measure and estimate volumes
* Select and use appropriate units to measure volume
* Record volumes using the abbreviations cm3 and m3
 | ***Mass 2 and Volume & Capacity 2******MA3-1WM MA3-12MG MA3-2WM MA3-11MG MA3-3WM**** Record mass using decimal notation to three decimal places
* Convert between tonnes, kilograms and grams

***Volume and Capacity 2**** Connect volume and capacity and their units of measurement
* Record volumes and capacities using decimal notation to three decimal places
* Convert between millilitres and litres
* Develop a strategy to find volumes of rectangular prisms and record the strategy in words
 |  |
|  |  |  |  | ***10*** | ***Assessment**** Final update of PLAN data.

***Time 1******MA3-1WM MA3-13MG**** Convert between 12- and 24-hour time
* Determine and compare the duration of events
 | ***Assessment**** Final update of PLAN data.

***Time 2******MA3-1WM MA3-13MG MA3-2WM**** Interpret and use timetables
* Draw and interpret timelines using a given scale
 |  |