Mathletics

Australian Curriculum

Skill Quests

Years 3 – 6

August, 2022

Mathletics

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Australian Curriculum 2022

Skill Quests

August, 2022

Year 3

Number

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3N01 - recognise, represent and order natural numbers using naming and writing conventions for numerals beyond 10 000	AUS AC Year 03	Numbers to 10 000	Identifying and counting numbers up to 4 digits
	AUS AC Year 03		Reading and representing numbers up to 4 digits
	AUS AC Year 03		Comparing and ordering numbers to 10 000
	AUS AC Year 03	Place value and partitioning	Place value up to 4-digits
	AUS AC Year 03		Rounding numbers: 4 digits
	AUS AC Year 04	Numbers up to 5 digits	Comparing and ordering numbers up to 5 digits
	AUS AC Year 04		Place value up to 5 digits
	AUS AC Year 04		Using place value to partition: up to 5 digits
	AUS AC Year 04		Rounding numbers: 5 digits
AC9M3N02 - recognise and represent unit fractions including 1/2, 1/3, 1/4, 1/5, 1/10 and their multiples in different ways; combine fractions with the same denominator to complete the whole	AUS AC Year 01	Fractions and decimals	Find half of a set or quantity (symbols)
	AUS AC Year 02		Explore the meaning of fraction symbols
	AUS AC Year 02		Find quarters of sets or shapes (symbols)
	AUS AC Year 02		Find halves and quarters (symbols)
	AUS AC Year 03	Fractions	Using fractions: halves, quarters & eighths
	AUS AC Year 03		Numerator and denominator
	AUS AC Year 03		Using fractions: halves, thirds & quarters
	AUS AC Year 03		Using fractions: thirds & sixths
	AUS AC Year 03		Using fractions: fifths
AC9M3N03 - add and subtract two- and three-	AUS AC Year 03		Add/subtract: 2 and 3 numbers within 1000

digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator	AUS AC Year 03	Addition & subtraction facts/strategies	Add/subtract: 2- & 3-digit using jump strategy
	AUS AC Year 03		Add/subtract: 2- & 3-digit using place value
	AUS AC Year 03		Add/subtract: 2- & 3-digit using bridging to 10
	AUS AC Year 03		Add/subtract: bridging with unknowns
	AUS AC Year 03		Add/subtract: 3-digits using partitioning
	AUS AC Year 03		Add/subtract: 3-digits using place value
	AUS AC Year 03		Add/subtract: 2- & 3-digit using split strategy
	AUS AC Year 03		Add/subtract: rounding & compensation
	AUS AC Year 03		Add/subtract: to and from 100
	AUS AC Year 03		Add/subtract: multiples of 100, 1000 & 10 000
	AUS AC Year 03		Add/subtract: using non-standard partitioning
	AUS AC Year 03		Add/subtract: choosing efficient strategies
AC9M3N04 - multiply and divide one- and two-digit numbers, representing problems using number sentences, diagrams and arrays, and using a variety of calculation strategies	AUS AC Year 02	Mult/div – models, repeated addition	Use repeated addition to multiply
	AUS AC Year 04	Mult and div strategies, no remainder	Multiplication strategies: 1-digit numbers
	AUS AC Year 04		Multiplying 2-digit numbers by a 1-digit number
AC9M3N05 - estimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations	AUS AC Year 03	Addition & subtraction facts/strategies	Add/subtract: estimating
AC9M3N06 - use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose	AUS AC Year 03	Multiplication word problems	Writing & solving multiplication word problems
	AUS AC Year 03		Word problems and missing numbers
	AUS AC Year 03	Money	Making purchases and calculating change

calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation			
AC9M3N07 - follow and create algorithms involving a sequence of steps and decisions to investigate numbers; describe any emerging patterns	AUS AC Year 03	Number patterns	Identifying and creating number patterns

Activities

Outcome	Existing Course	Topic	Activity
AC9M3N01 - recognise, represent and order natural numbers using naming and writing conventions for numerals beyond 10 000	AUS Yr 03 Australian Curriculum Aligned	NA Place Value	Expanding Numbers
	AUS Yr 03 Australian Curriculum Aligned		Place Value – Thousands
	AUS Yr 03 Australian Curriculum Aligned		Place value 3
	AUS Yr 03 Australian Curriculum Aligned		Partition and rename 1
	AUS Yr 03 Australian Curriculum Aligned		Partition and Rename 2
	AUS Yr 03 Australian Curriculum Aligned		Which Is Greater?
	AUS Yr 03 Australian Curriculum Aligned		Which Is Less?
	AUS Yr 03 Australian Curriculum Aligned		Smallest and largest numbers
	AUS Yr 03 Australian Curriculum Aligned		Ascending Order
	AUS Yr 03 Australian Curriculum Aligned		Descending Order
	AUS Yr 03 Australian Curriculum Aligned		Missing Numbers 1
	AUS Yr 03 Australian Curriculum Aligned	NA Comparing & Rounding Numbers	Greater Than or Less Than 1

	AUS Yr 03 Australian Curriculum Aligned		Nearest Ten?
	AUS Yr 03 Australian Curriculum Aligned		Nearest Hundred?
	AUS Yr 03 Australian Curriculum Aligned		Nearest Thousand?
	AUS Yr 04 Australian Curriculum Aligned	NA Whole Numbers & Place Value	Expanded Notation
	AUS Yr 04 Australian Curriculum Aligned		Numbers in Words
	AUS Yr 04 Australian Curriculum Aligned		Partition and Rename 3
	AUS Yr 04 Australian Curriculum Aligned		Place Value to Millions
	AUS Yr 04 Australian Curriculum Aligned		Numbers from Words to Digits 1
	AUS Yr 04 Australian Curriculum Aligned		Numbers from Words to Digits 2
	AUS Yr 04 Australian Curriculum Aligned		Equal, less or Greater Than?
	AUS Yr 04 Australian Curriculum Aligned		Compare Numbers to 100
	AUS Yr 04 Australian Curriculum Aligned		Greater Than or Less Than 1
	AUS Yr 04 Australian Curriculum Aligned		Rounding Numbers
AC9M3N02 - recognise and represent unit fractions including 1/2, 1/3, 1/4, 1/5, 1/10 and their multiples in different ways; combine fractions with the same denominator to complete the whole	AUS Yr 03 Australian Curriculum Aligned	NA Fractions	Halves and Quarters
	AUS Yr 03 Australian Curriculum Aligned		Shade Fractions
	AUS Yr 03 Australian Curriculum Aligned		Fractions of a collection 1
	AUS Yr 03 Australian Curriculum Aligned		Fractions of a Collection 2
AC9M3N03 - add and subtract two- and three-digit numbers using place	AUS Yr 03 Australian Curriculum Aligned	NA Adding & Subtracting - Mental Methods	Add 3 Numbers: Bonds to Multiples of 10

value to partition, rearrange and regroup numbers to assist in calculations without a calculator	AUS Yr 03 Australian Curriculum Aligned		Add 3 Numbers: Bonds to 100
	AUS Yr 03 Australian Curriculum Aligned		Repartition to Subtract
	AUS Yr 03 Australian Curriculum Aligned		Jump Add and Subtract
	AUS Yr 03 Australian Curriculum Aligned		Split Add and Subtract
	AUS Yr 03 Australian Curriculum Aligned		Compensation – Add
	AUS Yr 03 Australian Curriculum Aligned		Compensation – Subtract
	AUS Yr 03 Australian Curriculum Aligned		Magic Symbols 1
	AUS Yr 03 Australian Curriculum Aligned		Complements to 10, 20, 50
	AUS Yr 03 Australian Curriculum Aligned		Complements to 50 and 100
AC9M3N04 - multiply and divide one- and two-digit numbers, representing problems using number sentences, diagrams and arrays, and using a variety of calculation strategies	AUS Yr 03 Australian Curriculum Aligned	NA Multiplying & Dividing	Frog Jump Multiplication
	AUS Yr 03 Australian Curriculum Aligned		Groups of Two
	AUS Yr 03 Australian Curriculum Aligned		Groups of Three
	AUS Yr 03 Australian Curriculum Aligned		Groups of Five
	AUS Yr 03 Australian Curriculum Aligned		Groups of Ten
	AUS Yr 03 Australian Curriculum Aligned		Multiplication Arrays
	AUS Yr 03 Australian Curriculum Aligned		Arrays 2
	AUS Yr 03 Australian Curriculum Aligned		Arrays 1
	AUS Yr 03 Australian Curriculum Aligned		Frog Jump Division

	AUS Yr 03 Australian Curriculum Aligned		Dividing by Two
	AUS Yr 03 Australian Curriculum Aligned		Halve it!
	AUS Yr 03 Australian Curriculum Aligned		Dividing by Three
	AUS Yr 03 Australian Curriculum Aligned		Dividing by Five
AC9M3N05 - estimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations	AUS Yr 03 Australian Curriculum Aligned	NA Adding & Subtracting - Mental Methods	Estimate Sums
	AUS Yr 03 Australian Curriculum Aligned		Estimate Differences
AC9M3N06 - use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation	N/A	Teacher directed	Teacher directed
AC9M3N07 - follow and create algorithms involving a sequence of steps and decisions to investigate numbers; describe any emerging patterns	AUS Yr 03 Australian Curriculum Aligned	NA Patterns & Algebra	Count Forward Patterns
	AUS Yr 03 Australian Curriculum Aligned		Count Backward Patterns
	AUS Yr 03 Australian Curriculum Aligned		Counting up in 4s
	AUS Yr 03 Australian Curriculum Aligned		Increasing Patterns
	AUS Yr 03 Australian Curriculum Aligned		Decreasing Patterns
	AUS Yr 03 Australian Curriculum Aligned		Pick the Next Number

Algebra

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3A01 - recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences	AUS AC Year 03	Addition and subtraction	Relationship between addition and subtraction
AC9M3A02 - extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator	N/A	Teacher directed	Teacher directed
AC9M3A03 - recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and apply facts to develop the related division facts	AUS AC Year 03	Skip counting	Skip counting by 10 to 1000
	AUS AC Year 03		Skip counting by 2 to 1000
	AUS AC Year 03		Skip counting by 5 to 1000
	AUS AC Year 03		Skip counting 0 to 30
	AUS AC Year 03		Skip counting multiples of 30
	AUS AC Year 03		Skip counting by 4 to 40
	AUS AC Year 03	Multiplication & division facts	Multiplication/division facts for 2
	AUS AC Year 03		Multiplication/division facts for 10
	AUS AC Year 03		Multiplication/division facts for 5
	AUS AC Year 03		Multiplication/division facts for 2, 5, 10
	AUS AC Year 03		Multiplication/division facts for 3

Activities

Outcome	Existing Course	Topic	Activity
AC9M3A01 - recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find	AUS Yr 03 Australian Curriculum Aligned	NA Adding & Subtracting - Mental Methods	Commutative Property of Addition
	AUS Yr 03 Australian Curriculum Aligned		Related Facts 1

unknown values in number sentences	AUS Yr 03 Australian Curriculum Aligned		Fact Families: Add and Subtract
AC9M3A02 - extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator	N/A	Teacher directed	Teacher directed
AC9M3A03 - recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and apply facts to develop the related division facts	AUS Yr 03 Australian Curriculum Aligned	NA Multiplying & Dividing	Model Multiplication to 5 × 5
	AUS Yr 03 Australian Curriculum Aligned		Dividing by Two
	AUS Yr 03 Australian Curriculum Aligned		Dividing by Three
	AUS Yr 03 Australian Curriculum Aligned		Dividing by Five

Measurement

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3M01 - identify which metric units are used to measure everyday items; use measurements of familiar items and known units to make estimates	N/A	Teacher directed	Teacher directed
AC9M3M02 - measure and compare objects using familiar metric units of length, mass and capacity, and instruments with labelled markings	AUS AC Year 03	Length, mass and capacity	Comparing, ordering and measuring length
	AUS AC Year 03		Measure & compare units of volume & capacity
	AUS AC Year 03		Using the kilogram to measure mass
AC9M3M03 - recognise and use the relationship between formal units of time including days, hours, minutes and seconds to estimate and compare the duration of events	AUS AC Year 01	Time - describe duration	Describing duration (hours)
	AUS AC Year 03	Relationship between units of time	Understanding relationship between units of time
AC9M3M04 - describe the relationship between the hours and minutes on analog and digital clocks, and read the time to the nearest minute	AUS AC Year 03	Telling time	Telling time to the minute
AC9M3M05 - identify angles as measures of turn and compare angles with right angles in everyday situations	AUS AC Year 03	Identifying and comparing angles	Identifying and comparing angles
	AUS AC Year 03		Introducing angles
AC9M3M06 - recognise the relationships between dollars and cents and represent money values in different ways	AUS AC Year 02	Whole number – money	Count and order Australian notes and coins

Activities

Outcome	Existing Course	Topic	Activity
AC9M3M01 - identify which metric units are used to measure everyday items; use measurements of familiar items and	N/A	Teacher directed	Teacher directed

known units to make estimates			
AC9M3M02 - measure and compare objects using familiar metric units of length, mass and capacity, and instruments with labelled markings	AUS Yr 03 Australian Curriculum Aligned	MG Measuring	Measuring Length with Blocks
	AUS Yr 03 Australian Curriculum Aligned		How Long is That?
	AUS Yr 03 Australian Curriculum Aligned		Measuring Length
	AUS Yr 03 Australian Curriculum Aligned		How Full?
	AUS Yr 03 Australian Curriculum Aligned		Using a Litre
	AUS Yr 03 Australian Curriculum Aligned		Everyday Mass
AC9M3M03 - recognise and use the relationship between formal units of time including days, hours, minutes and seconds to estimate and compare the duration of events	N/A	Teacher directed	Teacher directed
AC9M3M04 - describe the relationship between the hours and minutes on analog and digital clocks, and read the time to the nearest minute	AUS Yr 03 Australian Curriculum Aligned	MG Time	Set Time to the Half Hour
	AUS Yr 03 Australian Curriculum Aligned		Half Hour Times
	AUS Yr 03 Australian Curriculum Aligned		Five Minute Times
	AUS Yr 03 Australian Curriculum Aligned		What is the Time?
AC9M3M05 - identify angles as measures of turn and compare angles with right angles in everyday situations	AUS Yr 03 Australian Curriculum Aligned	MG Angles	What Line am I?
	AUS Yr 03 Australian Curriculum Aligned		Equal Angles
	AUS Yr 03 Australian Curriculum Aligned		Comparing Angles
AC9M3M06 - recognise the relationships between dollars and cents and represent money values in different ways	AUS Yr 03 Australian Curriculum Aligned	NA Money	Who's got the Money?
	AUS Yr 03 Australian Curriculum Aligned		Money

	AUS Yr 03 Australian Curriculum Aligned		How much Change?

Space

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3SP01 - make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses	AUS AC Year 03	3D objects	Exploring prisms and nets
	AUS AC Year 03		Rectangular prism nets
	AUS AC Year 03		Recognise and describe spheres
	AUS AC Year 03		Recognise and describe cones
	AUS AC Year 03		Recognise and describe cubes
	AUS AC Year 03		Recognise and describe cylinders
	AUS AC Year 03		Recognise, sort and name 3D objects
	AUS AC Year 03		Compare 2D shapes and 3D objects
	AUS AC Year 03		Identify faces, edges and vertices on 3D objects
	AUS AC Year 03		Faces, edges, vertices and surfaces of 3D objects
AC9M3SP02 - interpret and create two-dimensional representations of familiar environments, locating key landmarks and objects relative to each other	AUS AC Year 03	Grid referenced maps	Interpreting and creating grid referenced maps
	AUS AC Year 03	Lines of symmetry	Recognising and drawing lines of symmetry

Activities

Outcome	Existing Course	Topic	Activity
AC9M3SP01 - make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses	AUS Yr 03 Australian Curriculum Aligned	MG Objects & Shapes	Match the Object
	AUS Yr 03 Australian Curriculum Aligned		Collect the Objects
	AUS Yr 03 Australian Curriculum Aligned		What Prism am I?
	AUS Yr 03 Australian Curriculum Aligned		What Pyramid am I?
	AUS Yr 03 Australian Curriculum Aligned		Prisms and Pyramids

	AUS Yr 03 Australian Curriculum Aligned		Faces, Edges, and Vertices 1
	AUS Yr 03 Australian Curriculum Aligned		Faces, Edges and Vertices
AC9M3SP02 - interpret and create two-dimensional representations of familiar environments, locating key landmarks and objects relative to each other	AUS Yr 03 Australian Curriculum Aligned	MG Symmetry & Location	Symmetry
	AUS Yr 03 Australian Curriculum Aligned		Symmetry or Not?
	AUS Yr 03 Australian Curriculum Aligned		Following Directions
	AUS Yr 03 Australian Curriculum Aligned		Coordinate Meeting Place
	AUS Yr 03 Australian Curriculum Aligned		Map Coordinates

Statistics

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3ST01 - acquire data for categorical and discrete numerical variables to address a question of interest or purpose by observing, collecting and accessing data sets; record the data using appropriate methods including frequency tables and spreadsheets	AUS AC Year 03	Data sources and collection	Introducing the statistical investigation process
	AUS AC Year 03		Category data
	AUS AC Year 03	Collecting and organising data	Statistical investigations
AC9M3ST02 - create and compare different graphical representations of data sets including using software where appropriate; interpret the data in terms of the context	AUS AC Year 03	Data displays	Representing and interpreting data displays
	AUS AC Year 03		Comparing data displays
AC9M3ST03 -conduct guided statistical investigations involving the collection, representation and interpretation of data for categorical and discrete numerical variables with respect to questions of interest	N/A	Teacher directed	Teacher directed

Activities

Outcome	Existing Course	Topic	Activity
AC9M3ST01 - acquire data for categorical and discrete numerical variables to address a question of interest or purpose by observing, collecting and accessing data sets; record the data using appropriate methods including frequency tables and spreadsheets	AUS Yr 03 Australian Curriculum Aligned	SP Data	Tallies
	AUS Yr 03 Australian Curriculum Aligned		Sorting Data

AC9M3ST02- create and compare different graphical representations of data sets including using software where appropriate; interpret the data in terms of the context	AUS Yr 03 Australian Curriculum Aligned	SP Data	Picture Graphs: More or Less
	AUS Yr 03 Australian Curriculum Aligned		Picture Graphs: single-unit scale
AC9M3ST03 -conduct guided statistical investigations involving the collection, representation and interpretation of data for categorical and discrete numerical variables with respect to questions of interest	N/A	Teacher directed	Teacher directed

Probability

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M3P01 - identify practical activities and everyday events that involve chance; describe possible outcomes and events as 'likely' or 'unlikely' and identify some events as 'certain' or 'impossible' explaining reasoning	AUS AC Year 01	Chance	Use the everyday language of chance
	AUS AC Year 02		Use basic probability language
AC9M3P02 - conduct repeated chance experiments; identify and describe possible outcomes, record the results, recognise and discuss the variation	AUS AC Year 03	Conducting chance experiments	Conducting chance experiments

Activities

Outcome	Existing Course	Topic	Activity
AC9M3P01 - identify practical activities and everyday events that involve chance; describe possible outcomes and events as 'likely' or 'unlikely' and identify some events as 'certain' or 'impossible' explaining reasoning	AUS Yr 02 Australian Curriculum Aligned	SP Chance	Most Likely and Least Likely
	AUS Yr 03 Australian Curriculum Aligned		Will it Happen?
	AUS Yr 03 Australian Curriculum Aligned		Chance Gauge
	AUS Yr 03 Australian Curriculum Aligned		Possible Outcomes
	AUS Yr 03 Australian Curriculum Aligned		Counting Techniques 1
AC9M3P02 - conduct repeated chance experiments; identify and describe possible outcomes, record the results, recognise and discuss the variation	N/A	Teacher directed	Teacher directed

Year 4

Number

Skill Quests

Outcome	Existing Course	Quests	Content
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	AUS AC Year 04	Place value to hundredths	Using decimal tenths
	AUS AC Year 04		Using decimal hundredths
	AUS AC Year 04		Partitioning decimal hundredths
	AUS AC Year 04		Connecting fractions and decimal notation
	AUS AC Year 04	Solving money problems	Addition and subtraction money problems
AC9M4N02 - explain and use the properties of odd and even numbers	AUS AC Year 01	Patterns and algebra	Odd and even number patterns (up to 20)
	AUS AC Year 03	Odd and even numbers	Identifying odd and even numbers
	AUS AC Year 04	Properties of odd and even numbers	Odd and even numbers
AC9M4N03 - find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation	AUS AC Year 04	Equivalent fractions	Investigating equivalent fractions
AC9M4N04 - count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines	AUS AC Year 04	Counting by fractions and mixed numerals	Counting in halves and quarters
	AUS AC Year 04		Counting in thirds
	AUS AC Year 04		Mixed numerals on the number line
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	AUS AC Year 04	Mult and div strategies, no remainder	Multiplying 2-digit numbers by multiples of 100
	AUS AC Year 04		Dividing 3-digit numbers by 10
	AUS AC Year 04		Multiples and factors up to 100
AC9M4N06 - develop efficient strategies and use appropriate digital tools for solving problems	AUS AC Year 04	Addition and subtraction strategies	Add/subtract: efficient strategies
	AUS AC Year 04		Posing addition and subtraction problems

involving addition and subtraction, and multiplication and division where there is no remainder	AUS AC Year 04		Addition algorithms (without regrouping)
	AUS AC Year 04		Addition algorithms (with regrouping)
	AUS AC Year 04		Addition algorithms (with/without regrouping)
	AUS AC Year 04		Subtraction algorithms (without decomposing)
	AUS AC Year 04		Subtraction algorithms (with decomposing)
	AUS AC Year 04	Mult and div strategies, no remainder	Multiplication strategies: 1-digit numbers
	AUS AC Year 04		Using the conventions of multiplication
	AUS AC Year 04		Inverse facts: multiplication and division
	AUS AC Year 04		Practising multiplication strategies
	AUS AC Year 04		Multiplying 2-digit numbers by a 1-digit number
	AUS AC Year 04		Multiplying 2-digit numbers using doubling
	AUS AC Year 04		Multiplying 2-digit numbers using factorising
	AUS AC Year 04		Selecting effective multiplication strategies
	AUS AC Year 04		Comparisons using the language of multiplication
	AUS AC Year 04		Dividing a 2-digit number by a 1-digit number
AC9M4N07 - choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions	AUS AC Year 03	Addition & subtraction facts/strategies	Add/subtract estimating
AC9M4N08 - use mathematical modelling to solve practical problems that involve additive and multiplicative situations including financial	AUS AC Year 04	Addition and subtraction strategies	Representing problems using a bar model
	AUS AC Year 04		Add/subtract: word problems
	AUS AC Year 04		Expressing equations as word problems

contexts; formulate the problems using number sentences and choose efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation	AUS AC Year 04	Multiplication & division word problems	Mult/div: solving word problems
AC9M4N09 - follow and create algorithms involving a sequence of steps and decisions that use addition or multiplication to generate sets of numbers; identify and describe any emerging patterns	AUS AC Year 04	Investigating sequences with multiples	Investigating sequences with multiples
	AUS AC Year 04	Exploring number patterns	Exploring number patterns

Activities

Outcome	Existing Course	Topic	Activity
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	AUS Yr 04 Australian Curriculum Aligned	NA Decimals	Decimals from Words to Digits 1
	AUS Yr 04 Australian Curriculum Aligned		Decimal Place Value
	AUS Yr 04 Australian Curriculum Aligned		Decimals on the Number Line
	AUS Yr 04 Australian Curriculum Aligned		Nearest Whole Number
	AUS Yr 04 Australian Curriculum Aligned		Fractions to Decimals
	AUS Yr 04 Australian Curriculum Aligned	NA Whole Numbers & Place Value	Place Value – Thousands
	AUS Yr 04 Australian Curriculum Aligned		Place Value 3
	AUS Yr 04 Australian Curriculum Aligned		Partition and rename 2
	AUS Yr 04 Australian Curriculum Aligned		Missing numbers 1
	AUS Yr 04 Australian Curriculum Aligned		Expanded Notation
	AUS Yr 04 Australian Curriculum Aligned		Numbers in Words

	AUS Yr 04 Australian Curriculum Aligned		Partition and Rename 3
	AUS Yr 04 Australian Curriculum Aligned		Place Value to Millions
	AUS Yr 04 Australian Curriculum Aligned		Numbers from Words to Digits 1
	AUS Yr 04 Australian Curriculum Aligned		Numbers from Words to Digits 2
	AUS Yr 04 Australian Curriculum Aligned		Equal, less or Greater Than?
	AUS Yr 04 Australian Curriculum Aligned		Compare Numbers to 100
	AUS Yr 04 Australian Curriculum Aligned		Greater Than or Less Than 1
	AUS Yr 04 Australian Curriculum Aligned		Rounding Numbers
AC9M4N02 - explain and use the properties of odd and even numbers	AUS Yr 04 Australian Curriculum Aligned	NA Whole Numbers & Place Value	Odd and Even Numbers 1
AC9M4N03 - find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation	AUS Yr 04 Australian Curriculum Aligned	NA Fractions	Equivalent Fractions on a Number Line 2
	AUS Yr 04 Australian Curriculum Aligned		Equivalent Fraction Wall 1
	AUS Yr 04 Australian Curriculum Aligned		Equivalent Fraction Wall 2
	AUS Yr 04 Australian Curriculum Aligned		The Equivalent Fraction
	AUS Yr 04 Australian Curriculum Aligned		Shading Equivalent Fractions
AC9M4N04 - count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines	AUS Yr 04 Australian Curriculum Aligned	NA Fractions	Counting with Fractions on a Number Line
	AUS Yr 04 Australian Curriculum Aligned		Shade Fractions
	AUS Yr 04 Australian Curriculum Aligned		Thirds and Sixths
AC9M4N05 - solve problems involving multiplying or dividing	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Multiply Multiples of 10

natural numbers by multiples and powers of 10 without a calculator, using the multiplicative relationship between the place value of digits			
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	AUS Yr 04 Australian Curriculum Aligned	NA Adding - Written Methods	Add Two 2-Digit Numbers
	AUS Yr 04 Australian Curriculum Aligned		Columns that Add
	AUS Yr 04 Australian Curriculum Aligned		Add 3-Digit Numbers
	AUS Yr 04 Australian Curriculum Aligned		Add Three 1-Digit Numbers
	AUS Yr 04 Australian Curriculum Aligned		Add Two 2-Digit Numbers: Regroup
	AUS Yr 04 Australian Curriculum Aligned		Add Three 2-Digit Numbers: Regroup
	AUS Yr 04 Australian Curriculum Aligned		Add 3-Digit Numbers: Regroup
	AUS Yr 04 Australian Curriculum Aligned		Add Multi-Digit Numbers 1
	AUS Yr 04 Australian Curriculum Aligned		Add Three 3-Digit Numbers: Regroup
	AUS Yr 04 Australian Curriculum Aligned		Adding Colossal Columns
	AUS Yr 04 Australian Curriculum Aligned		Add Multi-Digit Numbers 2
	AUS Yr 04 Australian Curriculum Aligned	NA Subtracting - Written Methods	Subtract Numbers
	AUS Yr 04 Australian Curriculum Aligned		3-Digit Differences
	AUS Yr 04 Australian Curriculum Aligned		Subtract Numbers: Regroup
	AUS Yr 04 Australian Curriculum Aligned		2-Digit Differences: Regroup
	AUS Yr 04 Australian Curriculum Aligned		3-Digit Differences: 1 Regrouping

	AUS Yr 04 Australian Curriculum Aligned		3-Digit Differences: 2 Regroupings
	AUS Yr 04 Australian Curriculum Aligned		3-Digit Differences with Zeros
	AUS Yr 04 Australian Curriculum Aligned		Columns that Subtract
	AUS Yr 04 Australian Curriculum Aligned		Subtracting Colossal Columns
	AUS Yr 04 Australian Curriculum Aligned	NA Adding & Subtracting - Mental Methods	Add 3 Numbers: Bonds to Multiples of 10
	AUS Yr 04 Australian Curriculum Aligned		Add 3 Numbers: Bonds to 100
	AUS Yr 04 Australian Curriculum Aligned		Repartition to Subtract
	AUS Yr 04 Australian Curriculum Aligned		Jump Add and Subtract
	AUS Yr 04 Australian Curriculum Aligned		Split Add and Subtract
	AUS Yr 04 Australian Curriculum Aligned		Compensation – Add
	AUS Yr 04 Australian Curriculum Aligned		Compensation – Subtract
	AUS Yr 04 Australian Curriculum Aligned		Magic Symbols 1
	AUS Yr 04 Australian Curriculum Aligned		Partition Puzzles 1
	AUS Yr 04 Australian Curriculum Aligned		Partition Puzzles 2
	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying – Basics	Frog Jump Multiplication
	AUS Yr 04 Australian Curriculum Aligned		Arrays 2
	AUS Yr 04 Australian Curriculum Aligned		Arrays 1
	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Multiplication Turnarounds

	AUS Yr 04 Australian Curriculum Aligned		Multiplication Turn-Abouts
	AUS Yr 04 Australian Curriculum Aligned		Related Facts 2
	AUS Yr 04 Australian Curriculum Aligned		Fact Families: Multiply and Divide
	AUS Yr 04 Australian Curriculum Aligned		Division Facts 1
	AUS Yr 04 Australian Curriculum Aligned		Halve it!
	AUS Yr 04 Australian Curriculum Aligned		Multiply 3 single-digit numbers
AC9M4N07 - choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions	AUS Yr 04 Australian Curriculum Aligned	NA Adding & Subtracting - Mental Methods	Estimate Sums
	AUS Yr 04 Australian Curriculum Aligned		Estimate Differences
AC9M4N08 - use mathematical modelling to solve practical problems that involve additive and multiplicative situations including financial contexts; formulate the problems using number sentences and choose efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Problems: Times and Divide
	AUS Yr 04 Australian Curriculum Aligned		Multiply and Divide Problems 1
	AUS Yr 04 Australian Curriculum Aligned	NA Money	Who's got the Money?
	AUS Yr 04 Australian Curriculum Aligned		Money
	AUS Yr 04 Australian Curriculum Aligned		Money Problems: Four Operations
	AUS Yr 04 Australian Curriculum Aligned		How much Change?
AC9M4N09 - follow and create algorithms involving a sequence of steps and decisions that use addition or multiplication to generate sets of numbers; identify and describe any emerging patterns	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying – Basics	Counting up in 4s
	AUS Yr 04 Australian Curriculum Aligned		Counting up in 6s
	AUS Yr 04 Australian Curriculum Aligned		Counting up in 7s

	AUS Yr 04 Australian Curriculum Aligned		Counting up in 8s

Algebra

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M4A01 - find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations	AUS AC Year 04	Addition & subtraction number sentences	Using number sentences to find unknown quantities
AC9M4A02 - recall and demonstrate proficiency with multiplication facts up to 10 x 10 and related division facts; extend and apply facts to develop efficient mental strategies for computation with larger numbers without a calculator	AUS AC Year 04	Multiplication and division facts	Multiplication/division facts for 4
	AUS AC Year 04		Multiplication/division facts up to 5
	AUS AC Year 04		Multiplication/division facts and properties
	AUS AC Year 04		Exploring multiplication/division for 6 up to 60
	AUS AC Year 04		Exploring multiplication/division for 7 up to 70
	AUS AC Year 04		Exploring multiplication/division for 8 up to 80
	AUS AC Year 04		Exploring multiplication/division for 9 up to 90

Activities

Outcome	Existing Course	Topic	Activity
AC9M4A01 - find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Missing Numbers: x and ÷ facts
	AUS Yr 04 Australian Curriculum Aligned	NA Patterns & Algebra	Missing Values
	AUS Yr 04 Australian Curriculum Aligned		Missing Numbers
AC9M4A02 - recall and demonstrate proficiency with multiplication facts up to 10 x 10 and related division facts; extend and apply facts to develop efficient mental strategies for computation with	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying – Basics	Model Multiplication to 5 × 5
	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Times Tables

larger numbers without a calculator			

Measurement

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M4M01 - interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units	AUS AC Year 04	Length, mass, capacity and temperature	Metric units of length
	AUS AC Year 04		Length and 3D objects
	AUS AC Year 04		Temperature
	AUS AC Year 04		Measuring capacity in millilitres
	AUS AC Year 04		Measuring mass in grams and kilograms
AC9M4M02 - recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units	AUS AC Year 04	Measure perimeter	Introducing perimeter
	AUS AC Year 02	Area	Compare and order areas (informal units)
	AUS AC Year 02		Measure and estimate area using square units
	AUS AC Year 04	Area and volume	Compare area using metric units
AC9M4M03 - solve problems involving the duration of time including situations involving “am” and “pm” and conversions between units of time	AUS AC Year 04	Converting units of time	Convert units of time
	AUS AC Year 04	AM/PM and elapsed time	AM/PM and elapsed time problems
AC9M4M04 - estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle	AUS AC Year 04	Classifying angles	Classify angles
	AUS AC Year 04	Area of regular and irregular shapes	Measuring & comparing regular and irregular shapes

Activities

Outcome	Existing Course	Topic	Activity
AC9M4M01 - interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units	AUS Yr 04 Australian Curriculum Aligned	MG Measurement – Units	Measuring Length
	AUS Yr 04 Australian Curriculum Aligned		Centimetres and Metres
	AUS Yr 04 Australian Curriculum Aligned		Using a Litre

	AUS Yr 04 Australian Curriculum Aligned		How Heavy?
	AUS Yr 04 Australian Curriculum Aligned		How Heavy is it?
	AUS Yr 04 Australian Curriculum Aligned		What's the Temperature (Celsius)?
	AUS Yr 04 Australian Curriculum Aligned		Which Measuring Tool?
AC9M4M02 - recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units	AUS Yr 04 Australian Curriculum Aligned	MG Measurement – Units	Area of Shapes
AC9M4M03 - solve problems involving the duration of time including situations involving “am” and “pm” and conversions between units of time	AUS Yr 04 Australian Curriculum Aligned	MG Measurement – Time	Time Conversions: Whole Numbers 1
	AUS Yr 04 Australian Curriculum Aligned		Time Conversions: Whole Numbers 2
	AUS Yr 04 Australian Curriculum Aligned		Time Conversions: Simple Fractions
	AUS Yr 04 Australian Curriculum Aligned		Time Conversions: Simple Decimals (0.25, 0.5, 0.75)
	AUS Yr 04 Australian Curriculum Aligned		Time Mentals
AC9M4M04 - estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle	AUS Yr 04 Australian Curriculum Aligned	MG Angles	Equal Angles
	AUS Yr 04 Australian Curriculum Aligned		Comparing Angles
	AUS Yr 04 Australian Curriculum Aligned		Right Angle Relation
	AUS Yr 04 Australian Curriculum Aligned		What Type of Angle?
	AUS Yr 04 Australian Curriculum Aligned		Classifying Angles

Space

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M4SP01 - represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects	AUS AC Year 04	Compose and decompose 2D shapes	Composing and decomposing 2D shapes
AC9M4SP02 - create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways	AUS AC Year 04	Scales, legends and directions	Using legends and cardinal compass directions
	AUS AC Year 04		Solving measurement problems
AC9M4SP03 - recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate	AUS AC Year 02	Translations of shapes	Translations of shapes (slides, flips, turns)
	AUS AC Year 04	Symmetrical patterns, pictures & shapes	Introducing transformations
	AUS AC Year 04		Creating and drawing symmetrical designs
	AUS AC Year 04		Recognising tessellations

Activities

Outcome	Existing Course	Topic	Activity
AC9M4SP01 - represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects	N/A	Teacher directed	Teacher directed
AC9M4SP02 - create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways	AUS Yr 04 Australian Curriculum Aligned	MG Location and Transformation	Map Coordinates
	AUS Yr 04 Australian Curriculum Aligned	MG Location and Transformation	Using a Key
	AUS Yr 04 Australian Curriculum Aligned	MG Location and Transformation	What Direction was That?
	AUS Yr 04 Australian Curriculum Aligned	MG Location and Transformation	More Directions!
AC9M4SP03 - recognise line and rotational symmetry of shapes and	N/A	Teacher directed	Teacher directed

create symmetrical patterns and pictures, using dynamic geometric software where appropriate			

Statistics

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M4ST01 - acquire data for categorical and 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	AUS AC Year 04	Construct suitable data displays	Column graphs using many-to-one correspondence
	AUS AC Year 04		Picture graphs with many-to-one correspondence
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	AUS AC Year 04	Evaluating and comparing data displays	Evaluating and comparing data displays
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	AUS AC Year 04	Methods of data collection	Surveys and sorting data

Activities

Outcome	Existing Course	Topic	Activity
AC9M4ST01 - acquire data for categorical and 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	AUS Yr 04 Australian Curriculum Aligned	SP Data	Picture Graphs: with scale & half symbols
	AUS Yr 04 Australian Curriculum Aligned		Pictographs
	AUS Yr 04 Australian Curriculum Aligned		Making Picture Graphs: With Scale
	AUS Yr 04 Australian Curriculum Aligned		Column Graphs

information that has been created	AUS Yr 04 Australian Curriculum Aligned		Reading from a Column Graph
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	N/A	Teacher directed	Teacher directed
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	N/A	Teacher directed	Teacher directed

Probability

Skill Quests

Outcome	Existing Course	Quests	Content
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	AUS AC Year 04	Chance events	Describing the chance of events occurring
	AUS AC Year 04	Non-simultaneous everyday events	Exploring non-simultaneous everyday events
	AUS AC Year 04	Independent and dependent events	Independent and dependent events
AC9M4P02 - conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results	AUS AC Year 03	Conducting chance experiments	Conducting chance experiments

Activities

Outcome	Existing Course	Topic	Activity
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	AUS Yr 04 Australian Curriculum Aligned	SP Chance	Possible Outcomes
	AUS Yr 04 Australian Curriculum Aligned		Counting Techniques 1
	AUS Yr 04 Australian Curriculum Aligned		What are the Chances?
AC9M4P02 - conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results	N/A	Teacher directed	Teacher directed

Year 5

Number

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5N01 - interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line	AUS AC Year 05	Place value to thousandths	Place value to thousandths
	AUS AC Year 05	Compare and order decimals	Compare and order decimals
AC9M5N02 - express natural numbers as products of their factors, recognise multiples and determine if one number is divisible by another	AUS AC Year 05	Multiples, factors and divisibility test	Multiples and Factors
	AUS AC Year 05		Divisibility Tests
AC9M5N03 - compare and order fractions with the same and related denominators including mixed numerals, applying knowledge of factors and multiples; represent these fractions on a number line	AUS AC Year 05	Comparing/ordering common unit fractions	Compare and order common unit fractions
AC9M5N04 - recognise that 100% represents the complete whole and use percentages to describe, represent and compare relative size; connect familiar percentages to their decimal and fraction equivalents	AUS AC Year 06	Fractions, decimals, and percentages	Representing fractions, decimals and percentages
AC9M5N05 - solve problems involving addition and subtraction of fractions with the same or related denominators, using different strategies	AUS AC Year 05	Addition and subtraction: fractions	Adding and subtracting proper fractions
	AUS AC Year 05		Add & subtract fractions - common denominators
AC9M5N06 - solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing	AUS AC Year 05	Multiplication	Multiplication using multiples of 10
	AUS AC Year 05		Mult: rounding, compensating and partitioning

efficient calculation strategies and using digital tools where appropriate; check the reasonableness of answers	AUS AC Year 05		Mult: doubling, halving and thirding
	AUS AC Year 05		Multiplying using the split method
	AUS AC Year 05		Multiplying using an area model
	AUS AC Year 05		Multiplying using formal algorithms
AC9M5N07 - solve problems involving division, choosing efficient strategies and using digital tools where appropriate; interpret any remainder according to the context and express results as a whole number, decimal or fraction	AUS AC Year 05	Division	Division using partitioning
	AUS AC Year 05		Extended division - no remainders or zeros
	AUS AC Year 05		Extended division – remainders
	AUS AC Year 05		Extended division - with and without remainders
	AUS AC Year 05		Contracted division - no remainders or zeros
	AUS AC Year 05		Contracted division - no remainders
	AUS AC Year 05		Contracted division - with and without remainders
AC9M5N08 - check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context	AUS AC Year 05	Estimating and rounding	Checking with estimation and rounding
	AUS AC Year 05		Rounding to estimate products and quotients
AC9M5N09 - use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems, choosing operations and efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation	AUS AC Year 05	Addition and subtraction	Adding numbers of any size
	AUS AC Year 05		Subtracting numbers of any size
	AUS AC Year 05		Adding and subtracting numbers of any size
	AUS AC Year 05	Multiplication	Multiplication word problems
	AUS AC Year 05	Division	Division word problems
AC9M5N10 - create and use algorithms involving a sequence of steps and decisions and digital tools to experiment with factors, multiples and divisibility; identify,	N/A	Teacher directed	Teacher directed

interpret and describe emerging patterns			

Activities

Outcome	Existing Course	Topic	Activity
AC9M5N01 - interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line	AUS Yr 05 Australian Curriculum Aligned	NA REVIEW Whole Numbers & Place Value	Expanded Notation
	AUS Yr 05 Australian Curriculum Aligned		Numbers in Words
	AUS Yr 05 Australian Curriculum Aligned		Partition and Rename 3
	AUS Yr 05 Australian Curriculum Aligned		Place Value to Millions
	AUS Yr 05 Australian Curriculum Aligned		Numbers from Words to Digits 1
	AUS Yr 05 Australian Curriculum Aligned		Numbers from Words to Digits 2
	AUS Yr 05 Australian Curriculum Aligned		Equal, less or Greater Than?
	AUS Yr 05 Australian Curriculum Aligned	NA Decimals	Decimals from Words to Digits 2
	AUS Yr 05 Australian Curriculum Aligned		Decimals on a Number Line
	AUS Yr 05 Australian Curriculum Aligned		Comparing Decimals 1
	AUS Yr 05 Australian Curriculum Aligned		Comparing Decimals
	AUS Yr 05 Australian Curriculum Aligned		Decimal Order
	AUS Yr 05 Australian Curriculum Aligned		Decimal Order 1
AC9M5N02 - express natural numbers as products of their factors, recognise multiples and determine if one number is divisible by another	AUS Yr 05 Australian Curriculum Aligned	NA Multiples & Factors	Multiples
	AUS Yr 05 Australian Curriculum Aligned		Lowest Common Multiple

	AUS Yr 05 Australian Curriculum Aligned		Factors
	AUS Yr 05 Australian Curriculum Aligned		Find the Factor
	AUS Yr 05 Australian Curriculum Aligned		Fit the Conditions 1
AC9M5N03 - compare and order fractions with the same and related denominators including mixed numerals, applying knowledge of factors and multiples; represent these fractions on a number line	AUS Yr 05 Australian Curriculum Aligned	NA REVIEW Fractions – Equivalence	Equivalent Fractions on a Number Line 2
	AUS Yr 05 Australian Curriculum Aligned		Equivalent Fraction Wall 1
	AUS Yr 05 Australian Curriculum Aligned		Equivalent Fraction Wall 2
AC9M5N04 - recognise that 100% represents the complete whole and use percentages to describe, represent and compare relative size; connect familiar percentages to their decimal and fraction equivalents	AUS Yr 06 Australian Curriculum Aligned	NA Fractions, Decimals & Percentages	Modelling Percentages
	AUS Yr 06 Australian Curriculum Aligned		Fractions to Percentages (Non-Calculator)
AC9M5N05 - solve problems involving addition and subtraction of fractions with the same or related denominators, using different strategies	AUS Yr 05 Australian Curriculum Aligned	NA Fractions - Adding and Subtracting	Add Subtract Fractions 1
	AUS Yr 05 Australian Curriculum Aligned		Add: Common Denominator
	AUS Yr 05 Australian Curriculum Aligned		Subtract: Common Denominator
	AUS Yr 05 Australian Curriculum Aligned		One Take Fraction
AC9M5N06 - solve problems involving multiplication of larger numbers by one- or two-digit numbers, choosing efficient calculation strategies and using digital tools where appropriate; check the reasonableness of answers	AUS Yr 05 Australian Curriculum Aligned	NA Multiplying & Dividing – Mental	Multiply Multiples of 10
	AUS Yr 05 Australian Curriculum Aligned		Multiply More Multiples of 10
	AUS Yr 05 Australian Curriculum Aligned		Mental Methods Multiplication 1
	AUS Yr 05 Australian Curriculum Aligned		Multiplying by 10, 100, 1000
	AUS Yr 05 Australian Curriculum Aligned		Mental Methods Multiplication 2

	AUS Yr 05 Australian Curriculum Aligned	NA Multiplying & Dividing - Written	Grid Methods 1
	AUS Yr 05 Australian Curriculum Aligned		Multiply: 1-Digit Number
	AUS Yr 05 Australian Curriculum Aligned		Single Digit Multipliers
	AUS Yr 05 Australian Curriculum Aligned		Multiply 2 Digits Area Model
	AUS Yr 05 Australian Curriculum Aligned		Long Multiplication
AC9M5N07 - solve problems involving division, choosing efficient strategies and using digital tools where appropriate; interpret any remainder according to the context and express results as a whole number, decimal or fraction	AUS Yr 05 Australian Curriculum Aligned	NA Multiplying & Dividing – Mental	Dividing by 10, 100, 1000
	AUS Yr 05 Australian Curriculum Aligned		Mental Methods Division
	AUS Yr 05 Australian Curriculum Aligned		Mental Methods Division 2
	AUS Yr 05 Australian Curriculum Aligned	NA Multiplying & Dividing - Written	Remainders by Arrays
	AUS Yr 05 Australian Curriculum Aligned		Remainders by Tables
	AUS Yr 05 Australian Curriculum Aligned		Short Division
AC9M5N08 - check and explain the reasonableness of solutions to problems including financial contexts using estimation strategies appropriate to the context	AUS Yr 05 Australian Curriculum Aligned	NA Rounding & Estimation	Rounding Numbers
	AUS Yr 05 Australian Curriculum Aligned		Estimate Sums
	AUS Yr 05 Australian Curriculum Aligned		Estimate Differences
	AUS Yr 05 Australian Curriculum Aligned		Estimation: Add and Subtract
	AUS Yr 05 Australian Curriculum Aligned		Estimate Products
	AUS Yr 05 Australian Curriculum Aligned		Estimate Quotients
	AUS Yr 05 Australian Curriculum Aligned		Estimation: Multiply and Divide

AC9M5N09 - use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems, choosing operations and efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation	N/A	Teacher directed	Teacher directed
AC9M5N10 - create and use algorithms involving a sequence of steps and decisions and digital tools to experiment with factors, multiples and divisibility; identify, interpret and describe emerging patterns	N/A	Teacher directed	Teacher directed

Algebra

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5A01 - recognise and explain the connection between multiplication and division as inverse operations and use this to develop families of number facts	AUS AC Year 04	Mult and div strategies, no remainder	Inverse facts: multiplication and division
AC9M5A02 - find unknown values in numerical equations involving multiplication and division using the properties of numbers and operations	AUS AC Year 05	Number sentences-mult and div	Number sentences - mult and div
	AUS AC Year 05	Multiplication	Multiplying by factorising

Activities

Outcome	Existing Course	Topic	Activity
AC9M5A01 - recognise and explain the connection between multiplication and division as inverse operations and use this to develop families of number facts	AUS Yr 04 Australian Curriculum Aligned	NA Multiplying & Dividing	Related Facts 2
	AUS Yr 04 Australian Curriculum Aligned		Fact Families: Multiply and Divide
AC9M5A02 - find unknown values in numerical equations involving multiplication and division using the properties of numbers and operations	AUS Yr 05 Australian Curriculum Aligned	NA Patterns & Algebra	Find the Missing Number 1
	AUS Yr 05 Australian Curriculum Aligned		I am Thinking of a Number!
	AUS Yr 05 Australian Curriculum Aligned		Equivalent Facts: Multiply

Measurement

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5M01 - choose appropriate metric units when measuring the length, mass and capacity of objects; use smaller units or a combination of units to obtain a more accurate measure	AUS AC Year 05	Length, area, volume, capacity and mass	Comparing and ordering metric lengths
	AUS AC Year 05		Selecting appropriate units for measuring
AC9M5M02 - solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units	AUS AC Year 05	Perimeter and area	Calculating perimeter of rectangles
	AUS AC Year 05		Calculating the area of rectangles
AC9M5M03 - compare 12- and 24-hour time systems and solve practical problems involving the conversion between them	AUS AC Year 05	24-hour time	Using 24-hour time
AC9M5M04 - estimate, construct and measure angles in degrees, using appropriate tools including a protractor, and relate these measures to angle names	AUS AC Year 05	Angles	Identifying and measuring angles
	AUS AC Year 05		Classifying and constructing angles

Activities

Outcome	Existing Course	Topic	Activity
AC9M5M01 - choose appropriate metric units when measuring the length, mass and capacity of objects; use smaller units or a combination of units to obtain a more accurate measure	AUS Yr 05 Australian Curriculum Aligned	MG Measurement – Units	Which Unit of Measurement?
AC9M5M02 - solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units	AUS Yr 05 Australian Curriculum Aligned	MG Measurement – Units	Perimeter of Shapes
	AUS Yr 05 Australian Curriculum Aligned		Perimeter: Squares and Rectangles
	AUS Yr 05 Australian Curriculum Aligned		Area of Shapes

	AUS Yr 05 Australian Curriculum Aligned		Calculate Area of Squares and Rectangles
	AUS Yr 05 Australian Curriculum Aligned		How many Blocks?
AC9M5M03 - compare 12- and 24-hour time systems and solve practical problems involving the conversion between them	AUS Yr 05 Australian Curriculum Aligned	MG Measurement – Time	24 Hour Time
	AUS Yr 05 Australian Curriculum Aligned		Time Conversions: Whole Numbers 1
	AUS Yr 05 Australian Curriculum Aligned		Time Conversions: Whole Numbers 2
	AUS Yr 05 Australian Curriculum Aligned		Time Conversions: Simple Fractions
	AUS Yr 05 Australian Curriculum Aligned		What Time Will it Be?
	AUS Yr 05 Australian Curriculum Aligned		Time Mentals
AC9M5M04 - estimate, construct and measure angles in degrees, using appropriate tools including a protractor, and relate these measures to angle names	AUS Yr 05 Australian Curriculum Aligned	MG Shape and Angles	Right Angle Relation
	AUS Yr 05 Australian Curriculum Aligned		What Type of Angle?
	AUS Yr 05 Australian Curriculum Aligned		Classifying Angles
	AUS Yr 05 Australian Curriculum Aligned		Measuring Angles
	AUS Yr 05 Australian Curriculum Aligned		Estimating Angles

Space

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5SP01 - connect objects to their nets and build objects from their nets using spatial and geometric reasoning	AUS AC Year 05	Nets	Nets
AC9M5SP02 - construct a grid coordinate system that uses coordinates to locate positions within a space; use coordinates and directional language to describe position and movement	AUS AC Year 05	Grid reference and directional language	Grid-referenced maps
	AUS AC Year 05		Using landmarks and directional language
AC9M5SP03 - describe and perform translations, reflections and rotations of shapes, using dynamic geometric software where appropriate; recognise what changes and what remains the same, and identify any symmetries	AUS AC Year 05	Transformations and symmetry	One-step transformations
	AUS AC Year 05		Symmetry

Activities

Outcome	Existing Course	Topic	Activity
AC9M5SP01 - connect objects to their nets and build objects from their nets using spatial and geometric reasoning	N/A	Teacher directed	Teacher directed
AC9M5SP02 - construct a grid coordinate system that uses coordinates to locate positions within a space; use coordinates and directional language to describe position and movement	AUS Yr 05 Australian Curriculum Aligned	MG Location and Transformation	Using a Key
	AUS Yr 05 Australian Curriculum Aligned		What Direction was That?
	AUS Yr 05 Australian Curriculum Aligned		More Directions!
	AUS Yr 05 Australian Curriculum Aligned		Scale
	AUS Yr 05 Australian Curriculum Aligned		Map Coordinates

AC9M5SP03 - describe and perform translations, reflections and rotations of shapes, using dynamic geometric software where appropriate; recognise what changes and what remains the same, and identify any symmetries	AUS Yr 05 Australian Curriculum Aligned	MG Location and Transformation	Transformations
	AUS Yr 05 Australian Curriculum Aligned		Symmetry
	AUS Yr 05 Australian Curriculum Aligned		Symmetry or Not?
	AUS Yr 05 Australian Curriculum Aligned		Rotational Symmetry of Shapes
	AUS Yr 05 Australian Curriculum Aligned		Rotational Symmetry

Statistics

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5ST01 - acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables to address a question of interest or purpose using software including spreadsheets; discuss and report on data distributions in terms of highest frequency (mode) and shape, in the context of the data	N/A	Teacher directed	Teacher directed
AC9M5ST02 - interpret line graphs representing change over time; discuss the relationships that are represented and conclusions that can be made	AUS AC Year 05	Constructing data displays	Constructing data displays
AC9M5ST03 - plan and conduct statistical investigations by posing questions or identifying a problem and collecting relevant data; choose appropriate displays and interpret the data; communicate findings within the context of the investigation	AUS AC Year 05	Categorical and numerical data	Categorical and numerical data

Activities

Outcome	Existing Course	Topic	Activity
AC9M5ST01 - acquire, validate and represent data for nominal and ordinal categorical and discrete numerical variables to address a question of interest or purpose using software including spreadsheets; discuss and report on data distributions in terms of	N/A	Teacher directed	Teacher directed

highest frequency (mode) and shape, in the context of the data			
AC9M5ST02 - interpret line graphs representing change over time; discuss the relationships that are represented and conclusions that can be made	AUS Yr 05 Australian Curriculum Aligned	SP REVIEW Data	Column Graphs
	AUS Yr 05 Australian Curriculum Aligned		Reading from a Column Graph
AC9M5ST03 - plan and conduct statistical investigations by posing questions or identifying a problem and collecting relevant data; choose appropriate displays and interpret the data; communicate findings within the context of the investigation	N/A	Teacher directed	Teacher directed

Probability

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M5P01 - list the possible outcomes of chance experiments involving equally likely outcomes and compare to those which are not equally likely	AUS AC Year 05	Outcomes of chance experiments	Outcomes of Chance Experiments
AC9M5P02 - conduct repeated chance experiments including those with and without equally likely outcomes, observe and record the results; use frequency to compare outcomes and estimate their likelihoods	N/A	Teacher directed	Teacher directed

Activities

Outcome	Existing Course	Topic	Activity
AC9M5P01 - list the possible outcomes of chance experiments involving equally likely outcomes and compare to those which are not equally likely	AUS Yr 05 Australian Curriculum Aligned	SP Chance	Possible Outcomes
	AUS Yr 05 Australian Curriculum Aligned		Counting Techniques 1
	AUS Yr 05 Australian Curriculum Aligned		What are the Chances?
	AUS Yr 05 Australian Curriculum Aligned		Introductory Probability
AC9M5P02 - conduct repeated chance experiments including those with and without equally likely outcomes, observe and record the results; use frequency to compare outcomes and estimate their likelihoods	N/A	Teacher directed	Teacher directed

Year 6

Number

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6N01 - recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	AUS AC Year 06	Integers	Investigating and interpreting integers
AC9M6N02 - identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations	AUS AC Year 06	Properties of numbers	Prime and composite numbers
AC9M6N03 - apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order	AUS AC Year 06	Fractions with related denominators	Working with fractions
AC9M6N04 - apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers	AUS AC Year 06	Adding and subtracting decimals	Adding decimals
	AUS AC Year 06		Subtracting decimals
AC9M6N05 - solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions	AUS AC Year 06	Adding and subtracting fractions	Add & subtract fractions-related denominators
	AUS AC Year 06		Add and subtract fractions and mixed numerals
AC9M6N06 - multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with	AUS AC Year 06	Mult/div decimals by powers of 10	Mult/div decimals by powers of 10

multiplication facts, using estimation and rounding to check the reasonableness of answers			
AC9M6N07 - solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate	AUS AC Year 06	Finding a fraction of a quantity	Finding a fraction of a quantity
	AUS AC Year 06	Calculating percentages	Calculating percentages
AC9M6N08 - approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies	N/A	Teacher directed	Teacher directed
AC9M6N09 - use mathematical modelling to solve practical problems, involving rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and efficient calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made	N/A	Teacher directed	Teacher directed

Activities

Outcome	Existing Course	Topic	Activity
AC9M6N01 - recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	AUS Yr 06 Australian Curriculum Aligned	NA Positive & Negative Numbers	Integers on a Number Line
	AUS Yr 06 Australian Curriculum Aligned		Ordering Integers (Number Line)
AC9M6N02 - identify and describe the properties of prime, composite and	AUS Yr 06 Australian Curriculum Aligned	NA Multiples, Factors & Primes	Multiples

square numbers and use these properties to solve problems and simplify calculations	AUS Yr 06 Australian Curriculum Aligned		Lowest Common Multiple
	AUS Yr 06 Australian Curriculum Aligned		Factors
	AUS Yr 06 Australian Curriculum Aligned		Find the Factor
	AUS Yr 06 Australian Curriculum Aligned		Highest Common Factor
	AUS Yr 06 Australian Curriculum Aligned		Fit the Conditions 1
	AUS Yr 06 Australian Curriculum Aligned		Prime or Composite?
	AUS Yr 07 Australian Curriculum Aligned	NA Primes and Prime Factorisation	Divisibility Tests (2, 5, 10)
	AUS Yr 07 Australian Curriculum Aligned		Divisibility Tests (3, 4, 9)
	AUS Yr 07 Australian Curriculum Aligned		Divisibility Tests
AC9M6N03 - apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order	AUS Yr 06 Australian Curriculum Aligned	NA Fractions – Concept	Equivalent Fractions on a Number Line 2
	AUS Yr 06 Australian Curriculum Aligned		Equivalent Fraction Wall 1
	AUS Yr 06 Australian Curriculum Aligned		Equivalent Fraction Wall 2
	AUS Yr 06 Australian Curriculum Aligned		The Equivalent Fraction
	AUS Yr 06 Australian Curriculum Aligned		Simplify Fractions
	AUS Yr 06 Australian Curriculum Aligned		Improper Fraction to Mixed Numeral
	AUS Yr 06 Australian Curriculum Aligned		Converting Mixed and Improper
	AUS Yr 07 Australian Curriculum Aligned	NA Fractions (Comparing Values)	Comparing Fractions 1
	AUS Yr 07 Australian Curriculum Aligned		Comparing Fractions 2

	AUS Yr 07 Australian Curriculum Aligned		Arranging Fractions
AC9M6N04 - apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers	AUS Yr 06 Australian Curriculum Aligned	NA Decimals - Adding & Subtracting	Adding Decimals
	AUS Yr 06 Australian Curriculum Aligned		Add Decimals 2
	AUS Yr 06 Australian Curriculum Aligned		Decimal Complements
	AUS Yr 06 Australian Curriculum Aligned		Subtract Decimals 1
	AUS Yr 06 Australian Curriculum Aligned		Subtract Decimals 2
	AUS Yr 06 Australian Curriculum Aligned		Adding and Subtracting Decimals
	AUS Yr 06 Australian Curriculum Aligned		Estimate Decimal Sums 1
	AUS Yr 06 Australian Curriculum Aligned		Estimate Decimal Differences 1
AC9M6N05 - solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions	AUS Yr 06 Australian Curriculum Aligned	NA Fractions - Adding & Subtracting	Add Subtract Fractions 1
	AUS Yr 06 Australian Curriculum Aligned		Add: Common Denominator
	AUS Yr 06 Australian Curriculum Aligned		Subtract: Common Denominator
	AUS Yr 06 Australian Curriculum Aligned		Common Denominator
	AUS Yr 06 Australian Curriculum Aligned		One Take Fraction
	AUS Yr 06 Australian Curriculum Aligned		Add: No Common Denominator
	AUS Yr 06 Australian Curriculum Aligned		Subtract: No Common Denominator
	AUS Yr 06 Australian Curriculum Aligned		Add Like Mixed Numbers
	AUS Yr 06 Australian Curriculum Aligned		Add Unlike Mixed Numbers

	AUS Yr 06 Australian Curriculum Aligned		Subtract Unlike Mixed Numbers
	AUS Yr 06 Australian Curriculum Aligned		Mixed Numerals
AC9M6N06 - multiply and divide decimals by multiples of powers of 10 without a calculator, applying knowledge of place value and proficiency with multiplication facts, using estimation and rounding to check the reasonableness of answers	AUS Yr 06 Australian Curriculum Aligned	NA Decimals - Multiplying & Dividing	Multiply Decimals: 10, 100, 1000
	AUS Yr 06 Australian Curriculum Aligned		Divide Decimals: 10, 100, 1000
	AUS Yr 06 Australian Curriculum Aligned		Multiply Decimals and Powers of 10
	AUS Yr 06 Australian Curriculum Aligned		Divide Decimals by Powers of 10 100 1000
AC9M6N07 - solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies and using digital tools where appropriate	AUS Yr 06 Australian Curriculum Aligned	NA Fractions - Find Fraction of	Unit Fractions
	AUS Yr 06 Australian Curriculum Aligned		Fraction Fruit Sets 1
	AUS Yr 06 Australian Curriculum Aligned		Fraction Wall Labelling 1
	AUS Yr 06 Australian Curriculum Aligned		Fraction Wall Labelling 2
	AUS Yr 06 Australian Curriculum Aligned	NA Fractions, Decimals & Percentages	Modelling Percentages
	AUS Yr 06 Australian Curriculum Aligned		Percentages to Fractions (with and without simplification)
	AUS Yr 06 Australian Curriculum Aligned		Percents to Fractions
	AUS Yr 06 Australian Curriculum Aligned		Percentages to Decimals
	AUS Yr 06 Australian Curriculum Aligned		Fractions to Percentages (Non-Calculator)
	AUS Yr 06 Australian Curriculum Aligned		Decimals to Percentages
	AUS Yr 06 Australian Curriculum Aligned		Percents and Decimals
	AUS Yr 06 Australian Curriculum Aligned		Match Decimals and Percentages

	AUS Yr 06 Australian Curriculum Aligned	NA Money & Finance	Calculating Percentages (Mental)
	AUS Yr 06 Australian Curriculum Aligned		Percent of a Number (Mental)
	AUS Yr 07 Australian Curriculum Aligned	NA Fractions (Fraction Of, Multiply)	Fractions of a Collection
	AUS Yr 07 Australian Curriculum Aligned		Fraction of an Amount
	AUS Yr 07 Australian Curriculum Aligned	NA Percentage calculations	Percentage of an amount using fractions (<100%)
	AUS Yr 07 Australian Curriculum Aligned		Percentage of an amount using decimals (calculator)
AC9M6N08 - approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies	N/A	Teacher directed	Teacher directed
AC9M6N09 - use mathematical modelling to solve practical problems, involving rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and efficient calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made	N/A	Teacher directed	Teacher directed

Algebra

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6A01 - recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	AUS AC Year 06	Number sequences	Continuing and creating number sequences
	AUS AC Year 06	Number patterns- addition and subtraction	Number patterns - addition and subtraction
AC9M6A02 - find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations	AUS AC Year 06	Order of operations	Order of operations - no grouping symbols
	AUS AC Year 06		Order of operations using grouping symbols
AC9M6A03 - create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns	N/A	Teacher directed	Teacher directed

Activities

Outcome	Existing Course	Topic	Activity
AC9M6A01 - recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	AUS Yr 06 Australian Curriculum Aligned	NA Patterns & Algebra	Pick the Next Number
	AUS Yr 06 Australian Curriculum Aligned		Number Sequences Up to 1 Million
	AUS Yr 06 Australian Curriculum Aligned		Describing Patterns
	AUS Yr 06 Australian Curriculum Aligned		Table of Values
AC9M6A02 - find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations	AUS Yr 06 Australian Curriculum Aligned	NA Operations	Order of Operations 1 (BIDMAS)
	AUS Yr 06 Australian Curriculum Aligned		Word Problems with Letters

AC9M6A03 - create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns	AUS Yr 07 Australian Curriculum Aligned	NA Patterns, Number Plane, Travel Graphs	Increasing Patterns
	AUS Yr 07 Australian Curriculum Aligned		Decreasing Patterns

Measurement

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6M01 - convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	AUS AC Year 06	Connecting decimals to the metric system	Decimal notation and the metric system
	AUS AC Year 06		Decimal representation in capacity
	AUS AC Year 06		Decimal representation in mass
	AUS AC Year 06	Converting units of length/capacity/mass	Converting metric units of length
	AUS AC Year 06		Converting metric units of capacity
	AUS AC Year 06		Converting metric units of mass
AC9M6M02 - establish the formula for the area of a rectangle and use it to solve practical problems	AUS AC Year 05	Perimeter and area	Calculating the area of rectangles
AC9M6M03 - interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	AUS AC Year 06	Using timetables	Using timetables
AC9M6M04 - identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	AUS AC Year 06	Angle properties	Adjacent and vertically opposite angles
	AUS AC Year 07	Angle relationships and parallel lines	Angles at a point

Activities

Outcome	Existing Course	Topic	Activity
AC9M6M01 - convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	AUS Yr 06 Australian Curriculum Aligned	MG Measurement - Unit Conversions	Centimetres and Metres
	AUS Yr 06 Australian Curriculum Aligned		Converting cm and mm
	AUS Yr 06 Australian Curriculum Aligned		Kilometre Conversions

	AUS Yr 06 Australian Curriculum Aligned		Metres and Kilometres
	AUS Yr 06 Australian Curriculum Aligned		Converting Units of Length
	AUS Yr 06 Australian Curriculum Aligned		Operations with Length
	AUS Yr 06 Australian Curriculum Aligned		Kilogram Conversions
	AUS Yr 06 Australian Curriculum Aligned		Grams and Kilograms
	AUS Yr 06 Australian Curriculum Aligned		Converting Units of Mass
	AUS Yr 06 Australian Curriculum Aligned		Litre Conversions
	AUS Yr 06 Australian Curriculum Aligned		Millilitres and Litres
	AUS Yr 07 Australian Curriculum Aligned	MG Prisms, Solids, Volume and Capacity	Millilitres and Litres
	AUS Yr 07 Australian Curriculum Aligned		Capacity Word Problems
AC9M6M02 - establish the formula for the area of a rectangle and use it to solve practical problems	AUS Yr 05 Australian Curriculum Aligned	MG Measurement – Units	Area of Shapes
	AUS Yr 05 Australian Curriculum Aligned		Calculate Area of Squares and Rectangles
	AUS Yr 05 Australian Curriculum Aligned		How many Blocks?
	AUS Yr 07 Australian Curriculum Aligned	MG Area	Area of Shapes
	AUS Yr 07 Australian Curriculum Aligned		Biggest Shape
	AUS Yr 07 Australian Curriculum Aligned		Equal Areas
AC9M6M03 - interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	AUS Yr 06 Australian Curriculum Aligned	MG Measurement – Time	24 Hour Time
	AUS Yr 06 Australian Curriculum Aligned		Using Timetables

AC9M6M04 - identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	AUS Yr 06 Australian Curriculum Aligned	MG Angles	Estimating Angles
	AUS Yr 06 Australian Curriculum Aligned		Angles of Revolution: Unknown Values
	AUS Yr 06 Australian Curriculum Aligned		Vertically Opposite Angles: Unknown Values
	AUS Yr 07 Australian Curriculum Aligned	MG Angle Relationships	Labelling Angles
	AUS Yr 07 Australian Curriculum Aligned		Measuring Angles
	AUS Yr 07 Australian Curriculum Aligned		Estimating Angles
	AUS Yr 07 Australian Curriculum Aligned		Classifying Angles
	AUS Yr 07 Australian Curriculum Aligned		Complementary, Supplementary or Neither
	AUS Yr 07 Australian Curriculum Aligned		Equal, Complement, or Supplement?
	AUS Yr 07 Australian Curriculum Aligned		Vertically Opposite: Value of x
	AUS Yr 07 Australian Curriculum Aligned		Angles of Revolution: Value of x
	AUS Yr 07 Australian Curriculum Aligned		Angles in a Revolution

Space

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6SP01 - compare the parallel cross-sections of objects and recognise their relationships to right prisms	N/A	Teacher directed	Teacher directed
AC9M6SP02 - locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	AUS AC Year 06	The Cartesian plane	Locating points on the Cartesian plane
AC9M6SP03 - recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate	AUS AC Year 06	Rigid transformations	Rigid transformations

Activities

Outcome	Existing Course	Topic	Activity
AC9M6SP01 - compare the parallel cross-sections of objects and recognise their relationships to right prisms	AUS Yr 06 Australian Curriculum Aligned	MG Objects & Shapes	Prisms and Pyramids
AC9M6SP02 - locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	AUS Yr 06 Australian Curriculum Aligned	MG Location & Transformation	Transformations
	AUS Yr 06 Australian Curriculum Aligned		Coordinate Graphs: 1st Quadrant
	AUS Yr 06 Australian Curriculum Aligned		Coordinate Graphs
	AUS Yr 07 Australian Curriculum Aligned	MG Symmetry and Transformation	Horizontal and Vertical Change
	AUS Yr 07 Australian Curriculum Aligned		Transformations: Coordinate Plane
AC9M6SP03 - recognise and use combinations of transformations to create	AUS Yr 07 Australian Curriculum Aligned	MG Symmetry and Transformation	Rotations: Coordinate Plane

tessellations and other geometric patterns, using dynamic geometric software where appropriate			

Statistics

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6ST01 - interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape	AUS AC Year 06	Interpreting/ representing/ comparing data	Two-way tables
	AUS AC Year 06		Side-by-side column graphs
	AUS AC Year 06		Comparing & selecting bivariate data displays
	AUS AC Year 05	Describing and interpreting data sets	Describing and interpreting data sets
AC9M6ST02 - identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions	AUS AC Year 06	Interpreting & evaluating secondary data	Interpreting & evaluating secondary data
AC9M6ST03 - plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation	N/A	Teacher directed	Teacher directed

Activities

Outcome	Existing Course	Topic	Activity
AC9M6ST01 - interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape	AUS Yr 06 Australian Curriculum Aligned	SP Data	Column Graphs
	AUS Yr 06 Australian Curriculum Aligned		Reading from a Column Graph
	AUS Yr 06 Australian Curriculum Aligned		Line Graphs: Interpretation
	AUS Yr 06 Australian Curriculum Aligned		Interpreting Tables

	AUS Yr 07 Australian Curriculum Aligned	SP Data Representation & Interpretation	Dot Plots
	AUS Yr 07 Australian Curriculum Aligned	SP Data Analysis	Mode
	AUS Yr 07 Australian Curriculum Aligned		Data Extremes and Range
AC9M6ST02 - identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions	N/A	Teacher directed	Teacher directed
AC9M6ST03 - plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation	N/A	Teacher directed	Teacher directed

Probability

Skill Quests

Outcome	Existing Course	Quests	Content
AC9M6P01 - recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals	AUS AC Year 06	Probability: Fraction, Decimal or Percent	Probability as a Fraction, Decimal or Percent
	AUS AC Year 05	Probability	Probabilities from 0 to 1
AC9M6P02 - conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials	AUS AC Year 06	Chance Experiments	Chance Experiments
	AUS AC Year 06	Frequency/ Fairness in Chance Experiments	Frequency/ Fairness in Chance Experiments

Activities

Outcome	Existing Course	Topic	Activity
AC9M6P01 - recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals	AUS Yr 06 Australian Curriculum Aligned	SP Chance	Introductory Probability
	AUS Yr 06 Australian Curriculum Aligned		Find the Probability
	AUS Yr 06 Australian Curriculum Aligned		Fair Games
	AUS Yr 06 Australian Curriculum Aligned		Simple Probability
	AUS Yr 07 Australian Curriculum Aligned	SP Probability	What are the Chances?
AC9M6P02 - conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and	N/A	Teacher directed	Teacher directed

discuss the effect on variation of increasing the number of trials			

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