Mathletics South Australia – Australian Curriculum v9 Activities (Courses) and Skill Quests







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Year 3 – Skill Quests

Outcome	Quests	Content
AC9M3N01 - Recognise, represent and order natural numbers using naming and writing conventions for	Numbers to 10 000	Identifying & counting numbers to 4 digits Reading & representing
numerals beyond 10 000		numbers to 4 digits
		Comparing & ordering
		numbers to 4 digits
		Place value to 4 digits Partitioning numbers to 4
		digits
		Rounding numbers to 4 digits
	Numbers to 100 000	Comparing & ordering numbers to 5 digits
		Place value to 5 digits
		Partitioning numbers to 5 digits
		Rounding numbers to 5 digits
	Numbers to 1 000 000	Reading & representing numbers to 6 digits
		Comparing & ordering
		numbers to 6 digits
		Place value to 6 digits Partitioning numbers to 6
		digits
		Counting by ones, tens & hundreds
	Numbers of any size	Reading & representing
		numbers of any size
		Comparing & ordering numbers of any size
		Place value of numbers of any size
		Partitioning numbers of any size
AC9M3N02 - Recognise and represent unit fractions including	Fraction symbols	Exploring the meaning of fraction symbols
1/2, 1/3, 1/4, 1/5, 1/10 and their multiples in different ways; combine		Introducing terms numerator & denominator
fractions with the same denominator to complete the whole	Find & count in halves & quarters	Finding half of a set or quantity (symbols)
		Finding quarters of sets or shapes (symbols)
		Finding halves & quarters (symbols)
		Counting in halves & quarters to 1

	Introduce eighths	Introducing eighths
	introduce eightins	Using fractions: halves,
	Introduce thirds	quarters & eighths
	introduce trinds	Introducing thirds Using fractions: halves, thirds
		5
	later de la sitette e	& quarters
	Introduce sixths	Introducing sixths
	Introduce fifths	Introducing fifths
	Introduce tenths	Introducing tenths
AC9M3N03 - Add and subtract	Addition & subtraction	Add & subtract using number
two- and three-digit numbers using	using place value	facts within 1000
place value to partition, rearrange		Add & subtract 2- & 3-digit
and regroup numbers to assist in		using jump strategy
calculations without a calculator		Add & subtract 2- & 3-digit
		using place value
		Add & subtract 2- & 3-digit
		using bridging to 10
		Adding & subtracting -
		bridging with unknowns
		Adding & subtracting 3-digits
		using partitioning
		Adding & subtracting 3-digits
		using place value
		Add & subtract 2- & 3-digit
		using split strategy
		Add & subtract 2-digit
		rounding & compensation
		Add & subtract 3-digit
		rounding & compensation
		Adding & subtracting to make
		100
		Add & subtract multiples of
		100, 1000 & 10 000
		Add & subtract using non-
		standard partitioning
		Add & subtract: choosing
		efficient strategies
AC9M3N04 - Multiply and divide	Multiplication & division	Using repeated addition to
one- and two-digit numbers,		multiply
representing problems using		Using repeated subtraction to
number sentences, diagrams and		divide
arrays, and using a variety of		Relating multiplication &
calculation strategies		division
		Interpreting & solving mult/div
		word problems
		Multiplication strategies: 1-
		digit numbers
		Multiplying 2-digit numbers by
ACOM2NIOE Fotimate the suggest	Estimation stratesies	a 1-digit number
AC9M3N05 - Estimate the quantity	Estimation strategies	Estimating additions
of objects in collections and make		Estimating subtractions
estimates when solving problems to		Judging the reasonableness of
determine the reasonableness of		answers
calculations		

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	Solve practical problems	Solving addition & subtraction practical problems Solve multiplication & division practical problems Missing number problems using all four operations
AC9M3N07 - Follow and create algorithms involving a sequence of steps and decisions to investigate numbers; describe any emerging patterns	Create algorithms to investigate numbers	Identifying & creating number patterns Working with code to create algorithms
AC9M3A01 - Recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences	Addition & subtraction relationship	Relationship between addition & subtraction Equivalent number sentences Word problems for finding unknown quantities Representing add & subtract using a bar model
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	Apply knowledge of facts to 20	Finding fact families Numbers bonds to 20 Applying facts to 20 to larger numbers
AC9M3A03 - Recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and apply facts to develop the related division facts	Multiplication & division facts for 2 Multiplication & division facts for 10	Recalling multiplication & division facts for 2 Exploring multiplication by 10 Recalling multiplication & division facts for 10
	Multiplication & division facts for 5	Exploring multiplication by 5 Recalling multiplication & division facts for 5
	Mult/div facts for 2, 5 & 10 Multiplication & division	Multiplication & division facts for 2, 5, 10 Exploring multiplication by 3
	facts for 3	Recalling multiplication & division facts for 3
	Multiplication & division facts for 4	Exploring multiplication by 4 Recalling multiplication & division facts for 4

Outcome	Quests	Content
AC9M3M01 - Identify which metric	Identify metric units of	Introducing centimetres
units are used to measure everyday	measure	Introducing millimetres
items; use measurements of		Selecting appropriate units to
familiar items and known units to		measure length
make estimates		Introducing litres
		Introducing millilitres
		Selecting appropriate units to
		measure capacity
		Introducing kilograms
		Introducing grams
		Selecting appropriate units to
		measure mass
		Identifying correct units of
		measurement
AC9M3M02 - Measure and	Length, mass &	Comparing, ordering &
compare objects using familiar	capacity	measuring length
metric units of length, mass and		Comparing, ordering &
capacity, and instruments with		measuring capacity
labelled markings		Comparing, ordering &
		measuring mass
AC9M3M03 - Recognise and use	Introduce units of time	Introducing hours
the relationship between formal		Introducing minutes
units of time including days, hours,		Introducing seconds
minutes and seconds to estimate	Duration & units of time	Understanding relationship
and compare the duration of events		between units of time
		Understanding duration
AC9M3M04 - Describe the	Tell time	Telling time to five minutes
relationship between the hours and		Telling time to the minute
minutes on analogue and digital		
clocks, and read the time to the		
nearest minute AC9M3M05 - Identify angles as	Identify & compare	Introducing angles
measures of turn and compare	angles	Introducing right angles
angles with right angles in	angles	introducing right angles
everyday situations		
AC9M3M06 - Recognise the	Money	Recognising Australian notes
relationships between dollars and		& coins
cents and represent money values		Counting Australian dollars &
in different ways		cents
		Using money to make
		purchases
AC9M3SP01 - Make, compare and	3D objects	Exploring prisms & pyramids
classify objects, identifying key		Introducing nets
features and explaining why these		Recognising & comparing 3D
features make them suited to their		objects
uses		Describing & sorting 3D
		objects
		Comparing 2D shapes & 3D
		objects

AC9M3SP02 - Interpret and create	Interpret & create maps	Interpreting simple maps
two-dimensional representations of		
familiar environments, locating key		
landmarks and objects relative to		
each other		

Outcome	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	Collect & record data	Collecting & recording category data Using tables
AC9M3ST02 - Create and compare different graphical representations of data sets including using software where appropriate; interpret the data in terms of the context	Create & compare data representations	Representing & interpreting data displays 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	Understand statistical investigations	Introducing the statistical investigation process Conducting a statistical investigation
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	Language of chance	Using basic probability language
AC9M3P02 - Conduct repeated chance experiments; identify and describe possible outcomes, record the results, recognise and discuss the variation	Chance experiments	Conducting chance experiments

Year 3 – Activities

Outcome	Торіс	Activity Title
AC9M3N01 - recognise, represent	Numbers beyond	Place Value 3
and order natural numbers using	10 000 with 5 digits	Place Value - Thousands
naming and writing conventions for		Partition and Rename 2
numerals beyond 10 000		Partition and Rename 3
		Ascending Order
		Descending Order
		Smallest and largest numbers
		Numbers from Words to Digits
		1
		Rounding Numbers
AC9M3N02 - recognise and	Unit fractions	Shade fractions
represent unit fractions including		Identifying Fractions on a
1/2, 1/3, 1/4, 1/5, 1/10 and their		Number Line
multiples in different ways; combine		Fractions of a Collection 1
fractions with the same		Fraction Length Models 1
denominator to complete the whole		Unit Fractions
AC9M3N03 - add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator	Up to 3 digit add & subtract	Add 3 Numbers: Bonds to 100
AC9M3N05 - estimate the quantity		Partition Puzzles 2
of objects in collections and make		Repartition to Subtract
estimates when solving problems to		Nearest 1000?
determine the reasonableness of		Estimation: Add and Subtract
calculations		Estimate Differences
		Estimate Sums
		Bar Model Problems 1
		Bar Model Problems 2
AC9M3N04 - multiply and divide	Multiply & divide	Related Facts 2
one- and two-digit numbers,		Frog Jump Multiplication
representing problems using		Frog Jump Division
number sentences, diagrams and		Equivalent Facts: Multiply
arrays, and using a variety of		Divide Into Equal Groups
calculation strategies	-	
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		

AC9M3N07 - follow and create	Teacher directed	
algorithms involving a sequence of		
steps and decisions to investigate		
numbers; describe any emerging		
patterns		
AC9M3A01 - recognise and explain	Patterns & missing	Odd and Even Numbers 1
the connection between addition	numbers	
and subtraction as inverse		
operations, apply to partition		
numbers and find unknown values		
in number sentences		
AC9M3A03 - recall and		Pick the Next Number
demonstrate proficiency with		Describing Patterns
multiplication facts for 3, 4, 5 and		Find the Missing Number 1
10; extend and apply facts to		Missing Values
develop the related division facts		Counting by Twos
		Counting by Fives
		Counting by Tens
		Count by 2s, 5s and 10s
		Dividing Twos
		Dividing Fives
		Dividing Tens
		Skip Counting with Coins
		Grouping in Fours
		Dividing Fours
		Grouping in Threes
		Dividing Threes
AC9M3A02 - extend and apply	Skill Quest: Apply	Finding fact families
knowledge of addition and	knowledge of facts to	5
subtraction facts to 20 to develop	20	
efficient mental strategies for		
computation with larger numbers		
without a calculator		
without a calculator		

Outcome	Торіс	Activity Title
AC9M3M01 - identify which metric units are used to measure everyday items; use measurements of familiar items and known units to make estimates AC9M3M02 - measure and compare objects using familiar metric units of length, mass and capacity, and instruments with labelled markings	Measurements	Which Unit of Measurement?
AC9M3M04 - describe the relationship between the hours and minutes on analog and digital clocks, and read the time to the nearest minute		Which Measuring Tool? Using a Litre How Long is That? Measure to the Nearest Half Centimetre How Heavy? Ordering Mass (g) Five Minute Times What is the Time?
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	Skill quest: Introduce units of time Skill quest: Duration and units of time	Introducing hours Introducing minutes Introducing seconds Understanding relationship between units of time Understanding duration
AC9M3M06 - recognise the relationships between dollars and cents and represent money values in different ways	Money, dollars & cents	Money Who's got the Money? How much Change?
AC9M3SP01 - make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses AC9M3SP02 - interpret and create two-	Shape & space	How Many Faces? How many Edges?
dimensional representations of familiar environments, locating key landmarks and objects relative to each other		
AC9M3M05 - identify angles as measures of turn and compare angles with right angles in everyday situations		Count the Corners Relate Shapes and Solids Collect the Objects Comparing Angles Equal Angles Following Directions Coordinate Meeting Place Map Coordinates Where is it? Symmetry

Outcome	Торіс	Activity Title
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	Record, sort, read & interpret data	Tallies
AC9M3ST02 - create and compare different graphical representations		Sorting Data
of data sets including using		Pictographs Interpreting Tables
software where appropriate;		Reading from a Column Graph
interpret the data in terms of the		Column Graphs
context		Add and Subtract Using Graphs
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	Teacher directed	
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	Probability and chance	Will it Happen?
AC9M3P02 - conduct repeated		Most Likely and Least Likely
chance experiments; identify and		Introductory probability
describe possible outcomes, record		What are the Chances?
the results, recognise and discuss the variation		How many Combinations?

Year 4 – Skill Quests

Outcome	Quests	Content
AC9M4N01 - Recognise and extend	Place value to	Introducing decimal notation
the application of place value to	hundredths	Understanding decimal tenths
tenths and hundredths and use the		Understanding decimal
conventions of decimal notation to		hundredths
name and represent decimals		Partitioning decimal
		hundredths
	Connect decimals &	Connecting fractions &
	fraction	decimal notation
	Round decimal tenths	Rounding decimal tenths &
	& hundredths	hundredths
	Decimals used in	Understanding decimals used
	money	in money
AC9M4N02 - Explain and use the	Odd & even numbers	Odd & even number patterns
properties of odd and even		(up to 20)
numbers		Identifying odd & even
		numbers & patterns
		Properties of odd & even
		numbers
AC9M4N03 - Find equivalent	Equivalent fractions	Investigating equivalent
representations of fractions using		fractions less than 1
related denominators and make		Investigating equivalent
connections between fractions and		fractions greater than 1
decimal notation		Patterns in equivalent
		fractions
		Using multiplication to find
	Count has forestings 9	equivalent fractions
AC9M4N04 - Count by fractions	Count by fractions & mixed numerals	Counting in halves & quarters
including mixed numerals; locate and represent these fractions as	mixed numerals	Counting in halves, quarters & eighths
numbers on number lines		Counting in thirds
		Counting in tenths
		Counting in simple fractions on
		a number line
	Convert fraction types	
		5
AC9M4N05 - Solve problems		
		• • • • • • •
natural numbers by multiples and		~
powers of 10 without a calculator,		
using the multiplicative relationship		
between the place value of digits		
AC9M4N06 - Develop efficient	Addition & subtraction	
•		-
-	5 5	
involving addition and subtraction,		regrouping)
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	Convert fraction types using models Mult/div by multiples of 10, 100 & 1000 Addition & subtraction using algorithms	Converting mixed numerals to improper fractions Using place value to multiply by 10 Multiplying by multiples of 100 Multiplying by 1000 Dividing by multiples of 10 Dividing by multiples of 100 Dividing by 1000 Addition algorithms (without regrouping) Addition algorithms (with

and multiplication and division		Addition algorithms (with 0
and multiplication and division		Addition algorithms (with &
where there is no remainder		without regrouping)
		Subtraction algorithms
		(without decomposing)
		Subtraction algorithms (with
		decomposing)
	Addition & subtraction	Add & subtract using efficient
	strategies	strategies
		Add & subtract using a bar
		model
		Add & subtract using place
		value partitioning
		Add & subtract using jump
		strategies
		Add & subtract using split
		strategies
		Add & subtract using round &
		compensate strategies
	Mult & div strategies,	Multiplication strategies: 1-
	no remainder	digit numbers
		Using the conventions of
		multiplication
		Inverse facts: multiplication &
		division
		Practising multiplication
		- ·
		strategies
		Multiplying 2-digit numbers by
		a 1-digit number
		Multiplying 2-digit numbers
		using doubling
		Multiplying 2-digit numbers
		using factorising
		Selecting effective
		multiplication strategies
		Selecting effective division
		strategies
		Comparisons using the
		language of multiplication
		Dividing a 2-digit number by a
		1-digit number
AC9M4N07 - Choose and use	Use estimation &	Rounding & estimating with
estimation and rounding to check	rounding	addition
and explain the reasonableness of		Rounding & estimating with
calculations including the results of		subtraction
financial transactions		Checking accuracy of addition
		& subtraction
		Estimating with multiplication
		& division
		Using estimating with money
AC9M4N08 - Use mathematical	Addition & subtraction	Addition & subtraction word
		problems
modelling to solve practical	word problems	1
problems that involve additive and		Posing addition & subtraction
multiplicative situations including		problems

financial contexts; formulate the		Expressing word problems as
problems using number sentences		equations
and choose efficient calculation	Multiplication & division	Expressing equations as word
strategies, using digital tools where	word problems	problems
appropriate; interpret and		Solving multiplication &
communicate solutions in terms of		division word problems.
the situation	Addition & subtraction	Solving addition & subtraction
	money problems	money problems
AC9M4N09 - Follow and create algorithms involving a sequence of	Sequences & patterns	Investigating sequences with multiples
steps and decisions that use		Exploring number patterns
addition or multiplication to		Finding & generating shape
generate sets of numbers; identify		patterns from a rule
and describe any emerging		Generating add/sub patterns
patterns		from a rule
		Generating multiplication
		patterns from a rule
		Using a function machine to
		apply rules to numbers
		Working with code to create
		algorithms
AC9M4A01 - Find unknown values	Addition & subtraction	Using inverse operations for
in numerical equations involving	number sentences	add/sub equations
addition and subtraction, using the		Relationship between addition
properties of numbers and		& subtraction
operations		Equivalent number sentences
		Word problems for finding
		unknown quantities
AC9M4A02 - Recall and	Multiplication & division	Multiplication & division facts
demonstrate proficiency with	facts	up to 5
multiplication facts up to 10 x 10		Multiplying & dividing by 6 up
and related division facts; extend		to 60
and apply facts to develop efficient		Multiplying & dividing by 7 up
mental strategies for computation		to 70
with larger numbers without a		Multiplying & dividing by 8 up
calculator		to 80
		Multiplying & dividing by 9 up
		to 90
		Multiplying & dividing to 10 x
		10

Outcome	Quests	Content
AC9M4M01 - Interpret unmarked	Length, mass, capacity	Metric units of length
and partial units when measuring	& temperature	Length & 3D objects
and comparing attributes of length,		Measuring temperature
mass, capacity, duration and		Measuring capacity in
temperature, using scaled and		millilitres
digital instruments and appropriate		Measuring mass in grams &
units		kilograms
		Reading scales with metric
		units
AC9M4M02 - Recognise ways of	Measure perimeter	Introducing perimeter
measuring and approximating the		Measuring perimeter
perimeter and area of shapes and	Measure area	Measuring & estimating area
enclosed spaces, using appropriate		using square units
formal and informal units		Introducing area using formal
		units
		Measuring & comparing
		regular & irregular shapes
		Measuring area using formal
		units
AC9M4M03 - Solve problems	Convert units of time	Converting units of time
involving the duration of time	Solve duration of time	Understanding am & pm
including situations involving "am"	problems	notation
and "pm" and conversions between		Solving duration of time
units of time		problems
AC9M4M04 - Estimate and	Classify angles	Classifying angles
compare angles using angle names		
including acute, obtuse, straight		
angle, reflex and revolution, and		
recognise their relationship to a		
right angle		
AC9M4SP01 - Represent and	Identify composite	Composing & decomposing 2D
approximate composite shapes and	shapes & objects	shapes
objects in the environment, using combinations of familiar shapes		
and objects		
AC9M4SP02 - Create and interpret	Create & interpret grid	Working with grid reference
grid reference systems using grid	references	systems
references and directions to locate	Terences	systems
and describe positions and		
pathways		
AC9M4SP03 - Recognise line and	Line & rotational	Recognising & drawing line
rotational symmetry of shapes and	symmetry	symmetry
create symmetrical patterns and		Rotational symmetry
pictures, using dynamic geometric	Symmetrical patterns,	Creating & drawing
software where appropriate	pictures & shapes	symmetrical designs
		Recognising tessellations
		riseognishing tessenations

Outcome	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	Represent data with many-to-one graphs	Column graphs using many- to-one correspondence 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	Evaluate & compare data displays	Evaluating & 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	Methods of data collection	Surveys & sorting data
AC9M4P01 - Describe possible everyday events and the possible	Chance events	Describing the chance of events occurring
outcomes of chance experiments and order outcomes or events based on their likelihood of occurring; identify independent or dependent events	Non-simultaneous everyday events Independent & dependent events	Exploring non-simultaneous everyday events Independent & dependent events
AC9M4P02 - Conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results	Conduct chance experiments	Conducting chance experiments Investigating equally likely outcomes of chance

Year 4 – Activities

Outcome	Торіс	Activity Title
AC9M4N01 - recognise and extend	Introducing decimals	Decimals from Words to Digits
the application of place value to		1
tenths and hundredths and use the		Decimals on the Number Line
conventions of decimal notation to		Decimal Place Value
name and represent decimals		Who's got the Money?
		Money
		Grams and Kilograms
		Millilitres and Litres
		Centimetres and Metres
AC9M4N03 - find equivalent	Fractions & equivalents	What Fraction is Shaded?
representations of fractions using		
related denominators and make		
connections between fractions and		
decimal notation		
AC9M4N04 - count by fractions		What fraction is Shaded 1
including mixed numerals; locate		What Mixed Number Is
and represent these fractions as		Shaded?
numbers on number lines		Equivalent Fraction Wall 1
		Equivalent Fraction Wall 2
		Simplifying Fractions
		Improper to Mixed
		Mixed to Improper
		Converting Mixed and
		Improper
		Identifying Fractions on a
		Number Line
		Identifying Fractions Beyond 1
		Counting with Fractions on a
		Number Line
		Mixed and Improper Fractions
		on a Number Line
		Thirds and Sixths
AC9M4N05 - solve problems	Multiplication & division	Grouping in Threes
involving multiplying or dividing		Grouping in Fours
natural numbers by multiples and		Grouping in Sixes
powers of 10 without a calculator,		Grouping in Sevens
using the multiplicative relationship		Grouping in Eights
between the place value of digits		Grouping in Nines
		Dividing Threes
		Dividing Fours
		Dividing Sixes
		Dividing Sevens
		Dividing Eights
		Dividing Nines
		Multiplication Turnarounds

		Missing Numbers: × and ÷
		facts
		Times Tables
		Multiply 3 single-digit numbers
		Multiplying by 10, 100, 1000
	-	Dividing by 10, 100, 1000
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		
AC9M4N06 - develop efficient	Efficient strategies with	Bump Add and Subtract
strategies and use appropriate	operations	Bump Add and Subtract
digital tools for solving problems	operations	
involving addition and subtraction,		
and multiplication and division		
where there is no remainder		
AC9M4N07 - choose and use	-	Jump Add and Subtract
estimation and rounding to check		Complements to 10, 20, 50
and explain the reasonableness of		Split Add and Subtract
calculations including the results of		Compensation - Add
financial transactions		Column Addition 1
		Columns that Subtract
		Subtract Numbers
		Estimate Sums
		Estimate Differences
		Magic Symbols 1
		Double and Halve to Multiply
		Fact Families: Multiply and
		Divide
		Multiplication Arrays
		Arrays 1
		Arrays 2
		Related Facts 2
		Model multiplication to 5×5
		Grid Methods 1
		Problems: Times and Divide
AC9M4N08 - use mathematical	Problem solving with	Bar Model Problems 1
modelling to solve practical	models	Bar Model Problems 2
problems that involve additive and		Fractions of a Collection 1
multiplicative situations including		Fractions of a Collection 2
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		
AC9M4A01 - find unknown values	Patterns & missing	Describing Patterns
in numerical equations involving	numbers	Missing Values
addition and subtraction, using the		

		[]
properties of numbers and		
operations		
AC9M4N02 - explain and use the		I am Thinking of a Number!
properties of odd and even		Balance Numbers to 20
numbers		Odd and Even Numbers 1
AC9M4A02 - explain and use the	Multiplication & division	Grouping in Threes
properties of odd and even		Grouping in Fours
numbers		Grouping in Sixes
		Grouping in Sevens
		Grouping in Eights
		Grouping in Nines
		Dividing Threes
		Dividing Fours
		Dividing Sixes
		Dividing Sevens
		Dividing Eights
		Dividing Nines
		Multiplication Turnarounds
		Missing Numbers: × and ÷
		facts
		Times Tables
		Multiply 3 single-digit numbers
		Multiply 3 single-digit numbers
		Dividing by 10, 100, 1000
AC9M4N05 - recall and		Dividing by 10, 100, 1000
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		
culculutor		

Outcome	Торіс	Activity Title
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	Measuring, converting & comparing	How Heavy?
AC9M4M02 - recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units		How Long is That?
AC9M4M03 - solve problems		Measuring Length
involving the duration of time including situations involving "am"		Measure to the Nearest Half Centimetre
and "pm" and conversions between		
units of time		How many Blocks?
		Comparing Volume Volume of Solids and Prisms -
		1 cm ³ blocks
		What is the Time?
		What's the Temperature
		(Celsius)?
		Biggest Shape
		Equal Areas
		Area of Shapes
		Perimeter of Shapes
		Time Conversions: Whole
		Numbers 1
		Time Conversions: Whole
		Numbers 2
		Time Conversions: Simple
		Fractions
		Time Conversions: Simple
		Decimals
AC9M4M04 - estimate and	Space, shape & angle	Equal Angles
compare angles using angle names		Comparing Angles
including acute, obtuse, straight		Right Angle Relation
angle, reflex and revolution, and		What Type of Angle?
recognise their relationship to a		Relate Shapes and Solids
right angle		Collect the Objects 2
		Coordinate Meeting Place
		Map Coordinates
		Using a key
		What Direction was That?
		More Directions!
		Symmetry
		Symmetry or Not?
		Rotational Symmetry

AC9M4SP02 - create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways	
AC9M4SP03 - estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle	

Outcome	Торіс	Activity Title
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	Graphs with scales &/or axis	Picture Graphs: with scale & half symbols Making Picture Graphs: With Scale Column Graphs 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	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	Teacher directed	
AC9M4SP01 - represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects	Chance	Chance Gauge What are the Chances? Counting Techniques 1
AC9M4P02 - conduct repeated chance experiments to observe relationships between outcomes; identify and describe the variation in results	Teacher directed	

Year 5 – Skill Quests

Outcome	Quests	Content
AC9M5N01 - Interpret, compare	Understand decimals	Introducing decimal
and order numbers with more than	to thousandths	thousandths
2 decimal places, including		Partitioning decimals of any
numbers greater than one, using		size
place value understanding;		Comparing & ordering
represent these on a number line		decimals
		Interpreting zeros at end of
		decimals
		Decimal & fraction
		equivalences
		Connecting decimals to the
		metric system
AC9M5N02 - Express natural	Multiples & factors	Finding multiples
numbers as products of their		Finding factors
factors, recognise multiples and		Solving problems using factors
determine if one number is divisible		& multiples
by another	Divisibility tests	Divisibility tests for 2, 5 & 10
		Divisibility tests for 3, 4, 6, 8 &
		9
AC9M5N03 - Compare and order	Compare & order	Comparing & ordering
fractions with the same and related	fractions	fractions
denominators including mixed		Comparing & ordering
numerals, applying knowledge of		fractions & mixed numbers
factors and multiples; represent		Using common factors to
these fractions on a number line		simplify proper fractions
AC9M5N04 - Recognise that 100%	Fractions, decimals &	Introducing percentages
represents the complete whole and	percentages	Connecting percentages &
use percentages to describe,		decimals
represent and compare relative		Connecting percentages &
size; connect familiar percentages		fractions
to their decimal and fraction		Relationship - percentages,
equivalents		decimals & fractions
AC9M5N05 - Solve problems	Add & subtract	Add & subtract proper
involving addition and subtraction	fractions	fractions - same denominator
of fractions with the same or		Add & subtract mixed
related denominators, using		numerals - same denominator
different strategies		Add & subtract fractions -
		related denominators
		Add & subtract mixed num -
ACOMENIOS Solve erebleres	Ctrataging to multiply	related denominators
AC9M5N06 - Solve problems	Strategies to multiply	Multiplication using multiples
involving multiplication of larger	by 1- or 2-digits	of 10
numbers by one- or two-digit		Multiplying: rounding,
numbers, choosing efficient		compensating & partitioning

calculation strategies and using		Multiplying: doubling, halving
digital tools where appropriate;		& thirding
check the reasonableness of		Multiplying using the split
answers		method
		Multiplying using an area
		model
		Multiplying by factorising
		Multiplying using expanded
		algorithm
		Multiplying using contracted
		algorithm
		Multiplying using extended
	Division structure in al	form of algorithm
AC9M5N07 - Solve problems	Division strategies incl.	Dividing by a 1-digit number
involving division, choosing efficient	remainders	using partitioning
strategies and using digital tools		Dividing by a 2-digit number
where appropriate; interpret any		using partitioning
remainder according to the context		Dividing by a 1-digit number
and express results as a whole		using factorising
number, decimal or fraction		Dividing by a 2-digit number
		using factorising
		Extended division - no
		remainders or zeros
		Extended division with
		remainders
		Extended division with &
		without remainders
		Contracted division - no
		remainders or zeros
		Contracted division- no
		remainders
		Contracted division - with &
		without remainders
		Dividing by 2-digit numbers -
		formal algorithms
AC9M5N08 - Check and explain the	Estimation & rounding	Rounding to estimate addition
reasonableness of solutions to		& subtraction
problems including financial		Rounding to estimate
contexts using estimation		multiplication & division
strategies appropriate to the		Estimating with money
context		Lounding with money
AC9M5N09 - Use mathematical	Add & subtract	Addition & subtraction word
modelling to solve practical	practical problems	problems
-	production problems	
problems involving additive and		Expressing word problems as
multiplicative situations including		equations add/sub
financial contexts; formulate the		Solving add & subtract money
problems, choosing operations and		problems
efficient calculation strategies,	Multiply & divide	Multiplication & division word
using digital tools where	practical problems	problems
appropriate; interpret and		Expressing word problems as
communicate solutions in terms of		equations mult/div
the situation		Solving mult-step mult/div
		word problems

	All operations practical problems	Solving mult & div money problems Express equations as word problems all operations
AC9M5N10 - Create and use algorithms involving a sequence of steps and decisions and digital	Create & use algorithms	Manipulating numbers using a given rule Designing flowcharts to solve
tools to experiment with factors, multiples and divisibility; identify, interpret and describe emerging		add/sub of fractions Factors & multiples
patterns AC9M5A01 - Recognise and explain the connection between multiplication and division as inverse operations and use this to develop families of number facts	Connect multiplication & division	Inverse relationship - multiplication & division
AC9M5A02 - Find unknown values in numerical equations involving multiplication and division using the properties of numbers and operations	Find unknown values in mult & div	Finding unknown values - multiplication & division

Outcome	Quests	Content
AC9M5M01 - Choose appropriate	Choose appropriate	Introducing kilometres
metric units when measuring the	metric units	Comparing & ordering units of
length, mass and capacity of		length
objects; use smaller units or a		Selecting appropriate units -
combination of units to obtain a		length
more accurate measure		Comparing & ordering units of
		mass
		Selecting appropriate units -
		mass
		Selecting appropriate units -
		capacity
		Recognising suitable metric
		units - all
AC9M5M02 - Solve practical	Perimeter & area -	Calculating perimeter practical
problems involving the perimeter	practical problems	problems
and area of regular and irregular		Calculating area practical
shapes using appropriate metric units		problems
AC9M5M03 - Compare 12- and 24-	Use 24-hour time	Using 24-hour notation
hour time systems and solve	Use 24-nour time	Using 24-hour time in
practical problems involving the		timetables
conversion between them		
AC9M5M04 - Estimate, construct	Estimate, construct &	Identifying, estimating &
and measure angles in degrees,	measure angles	measuring angles
using appropriate tools including a	<u> </u>	Classifying & constructing
protractor, and relate these		angles
measures to angle names		
AC9M5SP01 - Connect objects to	Connect objects to nets	Connecting prisms & pyramids
their nets and build objects from		with their nets
their nets using spatial and		Connecting 3D objects with
geometric reasoning		their nets
AC9M5SP02 - Construct a grid	Use coordinates in a	Working with grid referenced
coordinate system that uses	grid system	maps
coordinates to locate positions		Using Cartesian coordinate
within a space; use coordinates and		system - first quadrant
directional language to describe		Using landmarks & directional
position and movement	Internet for Oral 1	language
AC9M5SP03 - Describe and	Identify & describe	Identifying & describing
perform translations, reflections	transformations	transformations
and rotations of shapes, using dynamic geometric software where		
appropriate; recognise what		
changes and what remains the		
same, and identify any symmetries		
sume, and actuary any symmetries		

Outcome	Quests	Content
AC9M5ST01 - Acquire, validate	Acquire, validate &	Conducting surveys or
and represent data for nominal and	represent data	statistical investigations
ordinal categorical and discrete	Understand data	Understanding & calculating
numerical variables to address a	distributions	the mode
question of interest or purpose		Introducing the shape of data
using software including		distribution
spreadsheets; discuss and report		
on data distributions in terms of		
highest frequency (mode) and		
shape, in the context of the data		
AC9M5ST02 - Interpret line graphs	Interpret line graphs	Interpreting line graphs
representing change over time;		
discuss the relationships that are		
represented and conclusions that		
can be made		
AC9M5ST03 - Plan and conduct	Teacher directed	
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		
AC9M5P01 - List the possible	Outcomes of chance	Investigating equally likely
outcomes of chance experiments	experiments	outcomes
involving equally likely outcomes		Exploring fair & unfair chance
and compare to those which are		experiments
not equally likely		

Year 5 – Activities

Outcome	Торіс	Activity Title
AC9M5N01 - interpret, compare	REVIEW Whole	Place Value to Millions
and order numbers with more than	Numbers & Place Value	Numbers from Words to Digits
2 decimal places, including		1
numbers greater than one, using		Numbers from Words to Digits
place value understanding;		2
represent these on a number line		Greater Than or Less Than?
		Partition and Rename
		3/Understanding Place Value
		3 (CAN)
		Expanded Notation
		Rounding Numbers
		Decimals from Words to Digits
		1
		Decimals on the Number Line
		Decimal Place Value
		Nearest Whole Number
AC9M5N02 - express natural	Factors & Multiples	Multiples
numbers as products of their		Lowest Common Multiple
factors, recognise multiples and		Factors
determine if one number is divisible		Highest Common Factor
by another		Find the Factor
		Divisibility Tests (2, 5, 10)
		Divisibility Tests (3, 4, 9)
		Tests of Divisibility 1
AC9M5N03 - compare and order	Compare & order	Shading Equivalent Fractions
fractions with the same and related	fractions	Equivalent Fraction Wall 1
denominators including mixed		Equivalent Fractions on a
numerals, applying knowledge of		Number Line 1
factors and multiples; represent		Equivalent Fractions
these fractions on a number line		Compare Fractions 1a
		Compare Fractions 1b
		Identifying Fractions Beyond 1
		Improper to Mixed
		Mixed to Improper
		Converting Mixed and
		Improper
		Identifying Fractions on a
		Number Line
		Mixed and Improper Fractions
		on a Number Line
AC9M5N04 - recognise that 100%	Fractions decimals &	Modelling Percentages
represents the complete whole and	percentages	Fractions to Decimals
use percentages to describe,		Percents and Decimals
represent and compare relative		Common Fractions as
size; connect familiar percentages		Percentages (AU)

to their decimal and fraction		Decimal Order
equivalents		Comparing Decimals
		Grams and Kilograms
		Millilitres and Litres
		Centimetres and Metres
ACOMENIO1 interpret compare	-	Centimetres and Metres
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		
AC9M5N05 - solve problems	Add & subtract related	Add: Common Denominator
involving addition and subtraction	fractions	Subtract: Common
of fractions with the same or	Indetions	Denominator
related denominators, using		Common Denominator
different strategies		Add Like Mixed Numbers
		Subtract Like Mixed Numbers
ACOMENIOS colvo problemo	More multiplication 9	Multiply Multiples of 10
AC9M5N06 - solve problems involving multiplication of larger	More multiplication & division	Multiply Multiples of 10
numbers by one- or two-digit	amsion	
numbers, choosing efficient		
calculation strategies and using		
digital tools where appropriate;		
check the reasonableness of		
answers		
AC9M5N07 - solve problems	-	Multiply More Multiples of 10
involving division, choosing efficient		Multiply 2 Digits Area Model
strategies and using digital tools		Grid Methods 1
where appropriate; interpret any		Double and Halve to Multiply
remainder according to the context		Mental Methods Multiplication
and express results as a whole		1
number, decimal or fraction		- Dividing by 10, 100, 1000
		Division Facts 1
		Remainders by Arrays
		Mental Methods Division 1
		Mental Methods Division
AC9M5N08 - check and explain the	Rounding & estimating	Rounding Numbers
reasonableness of solutions to	· · · · · · · · · · · · · · · · · · ·	Rounding Numbers 1
problems including financial		Estimate Sums
contexts using estimation		Estimate Differences
strategies appropriate to the		Estimate Products
context		Estimate Quotients
		Estimation: Multiply and Divide
		Estimate Decimal Sums 2
		Estimate Decimal Operations
AC9M5N09 - use mathematical	Solve problems	Columns that Add
modelling to solve practical		Add Two 2-Digit Numbers
problems involving additive and		Add 3-Digit Numbers
multiplicative situations including		Columns that Subtract
financial contexts; formulate the		Subtract Numbers
problems, choosing operations and		Multiply: 1-Digit Number
efficient calculation strategies,		
using digital tools where		Multiply: 2-Digit by 1-Digit
		Divide: 1-Digit Divisor 1

appropriate; interpret and		Bar model × ÷
communicate solutions in terms of		Problems: Times and Divide
the situation		
AC9M5A01 - recognise and explain	Fact families mult/div	Fact Families: Multiply and
the connection between		Divide
multiplication and division as		Multiplication Turnarounds
inverse operations and use this to		Missing Numbers: × and ÷
develop families of number facts		facts
		Times Tables
		Multiply 3 single-digit numbers
AC9M5A02 - find unknown values	Missing values	Equivalent Facts: Multiply
in numerical equations involving		Missing Values
multiplication and division using the		Missing Numbers: Variables
properties of numbers and		Solve Equations: Multiply,
operations		Divide 1
		I am Thinking of a Number!
		Fit the Conditions 1

Outcome	Торіс	Activity Title
AC9M5M01 - choose appropriate metric units when measuring the length, mass and capacity of	Measurement	Kilometre Conversions
objects; use smaller units or a combination of units to obtain a more accurate measure		
AC9M5M02 - solve practical		Metres and Kilometres
problems involving the perimeter		Millilitres and Litres
and area of regular and irregular		Litre Conversions
shapes using appropriate metric		Kilogram Conversions
units		Grams and Kilograms
		Perimeter: Squares and
		Rectangles
		Area of Shapes
		Biggest Shape/Bigger or
		smaller shape
		Equal Areas
		Area: Squares and Rectangles
		Classifying Angles
		Measuring Angles
		Estimating Angles
AC9M5M04 - estimate, construct		
and measure angles in degrees, using appropriate tools including a		
protractor, and relate these		
measures to angle names		
AC9M5M03 - compare 12- and 24-	Time conversions &	Time Conversions: Simple
hour time systems and solve	problems	Fractions
practical problems involving the		Time Conversions: Simple
conversion between them		Decimals
		What Time Will it Be?
		Time Mentals
		Elapsed Time
		24 Hour Time
		Using Timetables
AC9M5SP01 - connect objects to their nets and build objects from their nets using spatial and geometric reasoning	Space & shape	What Pyramid am I?
AC9M5SP02 - construct a grid		What Prism am I?
coordinate system that uses		
coordinates to locate positions		
within a space; use coordinates and		
directional language to describe		
position and movement		
AC9M5SP03 - describe and		Prisms and Pyramids
perform translations, reflections		Map Coordinates
and rotations of shapes, using		Coordinate Graphs: 1st
dynamic geometric software where		Quadrant

appropriate	; recognise what	More Directions!
changes and	d what remains the	Flip, Slide, Turn
same, and id	dentify any symmetries	Transformations
		Rotational Symmetry

Outcome	Торіс	Activity Title
AC9M5ST02 - interpret line graphs representing change over time; discuss the relationships that are represented and conclusions that can be made	Statistics	Line Graphs: Interpretation
AC9M5ST03 - plan and conduct statistical investigations by posing questions or identifying a problem		Travel Graphs Stem and Leaf Plots: Concept Dot Plots
and collecting relevant data; choose		Divided Bar Graphs
appropriate displays and interpret the data; communicate findings		Tally Charts Sector Graphs
within the context of the		Mode
investigation		Mode from Stem and Leaf Plot
		Mode from Frequency Table
		Grouping data and modal class
AC9M5P01 - list the possible	Chance & probability	What are the Chances?
outcomes of chance experiments		Chance Gauge
involving equally likely outcomes		Introductory probability
and compare to those which are not equally likely		Fair Games
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	Teacher directed	

Year 6 – Skill Quests

Outcome	Quests	Content
AC9M6N01 - Recognise situations,	Understand integers	Recognising situations that
including financial contexts, that		use integers
use integers; locate and represent		Locating & representing
integers on a number line and as		integers on a number line
coordinates on the Cartesian plane		Introducing the Cartesian
		plane
AC9M6N02 - Identify and describe the properties of prime, composite	Prime, composite & square numbers	Introducing prime & composite numbers
and square numbers and use these properties to solve problems and simplify calculations		Introducing square numbers
AC9M6N03 - Apply knowledge of	Compare & order	Recognise, compare &
equivalence to compare, order and	common fractions	represent common fractions
represent common fractions including halves, thirds and quarters on the same number line and justify their order		Comparing common fractions on a number line
AC9M6N04 - Apply knowledge of place value to add and subtract	Add/sub decimals - mental strategies	Adding decimals using mental strategies
decimals, using digital tools where		Subtracting decimals using
appropriate; use estimation and		mental strategies
rounding to check the reasonableness of answers	Add/sub decimals - digital technologies	Adding decimals using digital technologies
		Subtracting decimals using digital technologies
	Add/sub decimals - written method	Adding decimals using written method
		Subtracting decimals using written method
	Add/sub decimals - estimating	Estimating sums & differences of decimals
AC9M6N05 - Solve problems involving addition and subtraction	Add & subtract proper fractions	Adding fractions with related denominators
of fractions using knowledge of equivalent fractions		Subtracting fractions with related denominators
'		Add & subtract fractions - related denominators
	Add & subtract mixed	Adding fractions & mixed
	numerals	numerals
	numeruis	Subtracting fractions & mixed
		numerals
AC9M6N06 - Multiply and divide	Multiply/divide	Multiplying decimals by
decimals by multiples of powers of	decimals by powers of	powers of 10
10 without a calculator, applying	10	Dividing decimals by powers
knowledge of place value and		of 10
proficiency with multiplication facts,		Using estimation

using estimation and rounding to		
check the reasonableness of		
answers		
AC9M6N07 - Solve problems that	Find a fraction of a	Finding a fraction of a quantity
require finding a familiar fraction,	quantity	
decimal or percentage of a	Calculate percentages	Calculating percentages
quantity, including percentage		
discounts, choosing efficient		
calculation strategies and using		
digital tools where appropriate		
AC9M6N08 - Approximate	Rational numbers &	Estimating solutions
numerical solutions to problems	percentages	_
involving rational numbers and		
percentages, including financial		
contexts, using appropriate		
estimation strategies		
AC9M6N09 - Use mathematical	Solve practical	Solving practical percentage
modelling to solve practical	percentage problems	problems
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		
AC9M6A01 - Recognise and use	Recognise & use rules	Continuing & creating number
rules that generate visually growing	for patterns	sequences
patterns and number patterns		
involving rational numbers		
AC9M6A02 - Find unknown values	Understand order of	Order of operations with no
in numerical equations involving	operations	grouping symbols
brackets and combinations of		Order of operations using
arithmetic operations, using the		grouping symbols
properties of numbers and		Order of operations practical
operations		situations
AC9M6A03 - Create and use	Design flowcharts to	Designing flowcharts to solve
algorithms involving a sequence of	solve problems	problems
steps and decisions that use rules	Use rules & algorithms	Manipulating numbers using a
to generate sets of numbers;	Use rules & digoritinins	given rule
identify, interpret and explain		Creating algorithms for sets
emerging patterns		creating algorithms for sets
energing patterns		

Outcome	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	Connect decimals to the metric system	Decimal notation & the metric system Decimal representation in capacity Decimal representation in mass
	Convert metric units of measurement	Converting metric units of length Converting metric units of capacity Converting metric units of mass
AC9M6M02 - Establish the formula for the area of a rectangle and use it to solve practical problems	Use formula for area of a rectangle	Using a formula to calculate area of a rectangle
AC9M6M03 - Interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	Interpret & use timetables	Interpreting & 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	Understand angle properties	Understanding adjacent angles Exploring vertically opposite angles Calculating angles that total 360 ° Investigating supplementary & complementary angles
AC9M6SP01 - Compare the parallel cross-sections of objects and recognise their relationships to right prisms	Investigate cross- sections	Investigating cross-sections
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	Points on 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	Use combinations of transformations	Recognising tessellations Identifying a sequence of 2 transformations
AC9M6ST01 - Interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools;	Interpret, compare & describe data sets	Two-way tables Side-by-side column graphs Comparing & selecting bivariate data displays Describing & interpreting data sets
compare distributions in terms of mode, range and shape	Compare mode, range & shape	Understanding mode, range & shape of distributions

	Comparing modes in sets of data
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Outcome	Quests	Content
AC9M6ST02 - Identify statistically	Interpret & evaluate	Interpreting & evaluating
informed arguments presented in	secondary data	secondary data
traditional and digital media;		
discuss and critique methods, data		
representations and conclusions		
AC9M6ST03 - Plan and conduct	Teacher directed	
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		
AC9M6P01 - Recognise that	Assign probabilities	Probability as a fraction,
probabilities lie on numerical scales		decimal or percent
of 0 – 1 or 0% – 100% and use		Probabilities from 0 to 1
estimation to assign probabilities		
that events occur in a given context,		
using common fractions,		
percentages and decimals		
AC9M6P02 - Conduct repeated	Conduct chance	Conducting chance
chance experiments and run	experiments	experiments
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		

Year 6 – Activities

Outcome	Торіс	Activity Title
AC9M6N01 - recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	Introducing Integers	Integers on a Number Line Ordering Integers (Number Line) Comparing Integers (<, =, >) What's the Temperature (Celsius)?
AC9M6N02 - identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations	Multiples, factors, primes & composites	Multiples Multiples of Highest Common Factor Lowest Common Multiple Prime or Composite?
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	Equivalent fractions	Equivalent fractions Equivalent Fraction Wall 2 Shading Equivalent Fractions Identifying Fractions on a Number Line Mixed and Improper Fractions on a Number Line Equivalent Fractions Comparing Fractions 1 Compare Fractions 1a Compare Fractions 1b
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 AC9M6N05 - solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions	Add/subtract decimal and fractions	Decimal Complements Adding Decimals
AC9M6N08 - approximate numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies		Subtract Decimals 1Estimate Decimal Sums 1Estimate Decimal Differences1Add Subtract Fractions 1Common DenominatorAdd: Common DenominatorSubtract: CommonDenominatorOne Take FractionAdd Like Mixed NumbersSubtract Like Mixed NumbersEstimate Decimal Sums 2

		Estimate Decimal Differences
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 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	Fractions, decimals & percentages	2 Fraction Wall Labelling 2 Fractions to Decimals
communicate solutions in terms of the situation, justifying the choices made 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 AC9M6N08 - approximate		Decimals to Fractions 1 Percentage to Fraction
numerical solutions to problems involving rational numbers and percentages, including financial contexts, using appropriate estimation strategies		Decimals to percentages Common Fractions as Percentages (AU) Fractions to Percentages (Non-Calculator) Percents and Decimals Match Decimals and Percentages Calculating Percentages (Mental) Money Problems: Four Operations Time Conversions: Simple Fractions
		Time Conversions: Simple Decimals Fraction Word Problems Percentage Word Problems Model Fractions to Multiply Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000 Estimate Decimal Operations

		Estimate Products with Fractions
AC9M6A01 - recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	Algebra patterns equations & rules	Increasing Patterns
AC9M6A02 - find unknown values		Describing Patterns
in numerical equations involving		Find the Pattern Rule
brackets and combinations of		Table of Values
arithmetic operations, using the		Pattern Rules and Tables
properties of numbers and operations		Number Sequences Up to 1 Million
		Order of Operations 1 (BIDMAS)
		Writing Algebraic Expressions
		Missing Numbers: Variables
		Simple Substitution
		Solve Equations: Add, Subtract
		1
		Solve Equations: Multiply,
		Divide 1

Outcome	Торіс	Activity Title
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	Converting metric units	Grams and Kilograms 1 Grams and Kilograms Grams and Milligrams Grams and Milligrams Centimetres and Metres Metres and Kilometres Millilitres and Litres Converting Volume
AC9M6M02 - establish the formula for the area of a rectangle and use it to solve practical problems 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	Area and angle	Area of ShapesArea: Squares and RectanglesMeasuring AnglesEstimating AnglesAngle Sum of a TriangleQuadrilaterals: Angle Sumwith EquationsExterior Angles of a TriangleAngles of revolution: UnknownValuesVertically Opposite Angles:Unknown Values
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 AC9M6SP03 - recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate	Shape and space	Ordered Pairs Ordered Pairs Number Plane Graphing from a Table of Values Reading Values from a Line Transformations: Coordinate Plane Rotations: Coordinate Plane

Outcome	Торіс	Activity Title
AC9M6ST01 - interpret and	Mode & range	Mode
compare data sets for ordinal and		Mode from Stem and Leaf Plot
nominal categorical, discrete and		Mode from Frequency Table
continuous numerical variables		Data Extremes and Range
using comparative displays or		Stem and Leaf Plots with
visualisations and digital tools;		Range
compare distributions in terms of		Double Stem and Leaf Plots
mode, range and shape		Line Graphs: Interpretation
AC9M6P01 - recognise that	Probability	Simple Probability
probabilities lie on numerical scales		Probability Scale
of 0 – 1 or 0% – 100% and use		Complementary Events
estimation to assign probabilities		Dice and Coins
that events occur in a given context,		
using common fractions,		
percentages and decimals		



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