Mathletics Victorian Curriculum

Skill Quests & Activities



Years 3-6

January 2024



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Grade 3

1 Number

VC2M3N01	
Identify, explain and use the properties of odd and even numbers	
Skill Quests	Skills
Odd & even numbers	Exploring odd & even numbers
Course Topic	Activities Title
Read & write numbers to 10 000	Odd and Even Numbers 1

VC2M3N02		
Recognise, represent and a	Recognise, represent and order natural numbers using naming and writing conventions for	
	numerals beyond 10 000	
Skill Quests	Skills	
Numbers up to 10 000	Identifying & counting numbers to 4 digits	
	Reading & representing 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 up 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 up 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	
Course Topic	Activities Title	
Read & write numbers to	Place Value 3	
10 000	Place Value – Thousands	
	Partition and Rename 2	
	Partition and Rename 3	
	Ascending Order	
	Descending Order	
	Smallest and largest numbers	
	Numbers from Words to Digits 1	
	Rounding Numbers	

VC2M3N03

Recognise and represent unit fractions including 1/2, 1/3, 1/4, 1/5 and 1/10 and their multiples in different ways; combine fractions with the same denominator to complete the whole

Skill Quests	Skills
Fraction symbols	Exploring the meaning of fraction symbols
	Introducing terms numerator & denominator
Find & count in halves &	Finding half of a set or quantity (symbols)
quarters	Finding quarters of sets or shapes (symbols)
	Finding halves & quarters (symbols)
	Counting in halves & quarters to 1
Introduce eighths	Introducing eighths
	Using fractions: halves, quarters & eighths
Introduce thirds	Introducing thirds
	Using fractions: halves, thirds & quarters
Introduce sixths	Introducing sixths
Introduce fifths	Introducing fifths
Introduce tenths	Introducing tenths
Course Topic	Activities Title
Unit fractions	Shade fractions
	Identifying Fractions on a Number Line
	Fractions of a Collection 1
	Fraction Length Models 1
	Unit Fractions

VC2M3N04

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Add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup	
numbe	ers to assist in calculations without a calculator
Skill Quests	Skills
Addition & subtraction	Add & subtract using number facts within 1000
using place value	Add & subtract 2- & 3-digit using jump strategy
	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
Course Topic	Activities Title
Add & subtract to 3 digits	Add 3 Numbers: Bonds to 100
	Partition Puzzles 2
	Repartition to Subtract
	Nearest 1000?
	Estimation: Add and Subtract
	Estimate Differences

Estimate Sums

Bar Model Problems 1 Bar Model Problems 2

VC2M3N05	
Multiply and divide one-	and two-digit numbers, representing problems using number
sentences, diagrams and arrays, and using a variety of calculation strategies	
Skill Quests	Skills
Multiplication & division	Using repeated addition to multiply
	Using repeated subtraction to divide
	Relating multiplication & division
	Interpreting & solving mult/div word problems
	Multiplication strategies: 1-digit numbers
	Multiplying 2-digit numbers by a 1-digit number
Course Topic	Activities Title
Multiply & divide by 2 digits	Related Facts 2
	Frog Jump Multiplication
	Frog Jump Division
	Equivalent Facts: Multiply
	Divide Into Equal Groups

VC2M3N06 Estimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations	
Skill Quests	Skills
Estimation strategies	Estimating additions
	Estimating subtractions
	Judging the reasonableness of answers
Course Topic	Activities Title
Add & subtract to 3 digits	Estimation: Add and Subtract
	Estimate Differences
	Estimate Sums

VC2M3N07 Recognise the relationships between dollars and cents and represent money values in different ways	
Skill Quests	Skills
Money	Recognising Australian notes & coins
	Counting Australian dollars & cents
	Using money to make purchases
Course Topic	Activities Title
Teacher directed	

VC2M3N08	
•	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	
Skill Quests	Skills
Solve practical problems	Solving addition & subtraction practical problems
	Solve multiplication & division practical problems
	Missing number problems using all four operations

Course Topic	Activities Title
Multiply & divide by 2 digits	Frog Jump Multiplication
	Frog Jump Division
	Divide Into Equal Groups

VC2M3N09 Follow and create algorithms involving a sequence of steps and decisions to investigate	
numbers; describe any emerging patterns	
Skill Quests	Skills
Create algorithms to	Identifying & creating number patterns
investigate numbers	Working with code to create algorithms
Course Topic	Activities Title
Read & write numbers to	Odd and Even Numbers 1
10 000	

2 Algebra

VC2M3A01	
Recognise and explain the connection between addition and subtraction as inverse operations,	
apply to partition r	numbers and find unknown values in number sentences
Skill Quests	Skills
Addition & subtraction	Relationship between addition & subtraction
relationship	Equivalent number sentences
	Word problems for finding unknown quantities
	Representing add & subtract using a bar model
Course Topic	Activities Title
Patterns with numbers	Related Facts 1
	Adding in any order

VC2M3A02 Extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator	
Skill Quests	Skills
Apply knowledge of facts to	Finding fact families
20	Numbers bonds to 20
	Applying facts to 20 to larger numbers
Course Topic	Activities Title
Patterns with numbers	Complements to 10, 20, 50
	Complements to 50 and 100

VC2M3A03	
Recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and	
apply	facts to develop the related division facts
Skill Quests	Skills
Multiplication & division	Recalling multiplication & division facts for 2
facts for 2	
Multiplication & division	Exploring multiplication by 10
facts for 10	Recalling multiplication & division facts for 10
Multiplication & division	Exploring multiplication by 5
facts for 5	Recalling multiplication & division facts for 5
Mult/div facts for 2, 5 & 10	Multiplication & division facts for 2, 5, 10
Multiplication & division	Exploring multiplication by 3
facts for 3	Recalling multiplication & division facts for 3
Multiplication & division	Exploring multiplication by 4
facts for 4	Recalling multiplication & division facts for 4
Course Topic	Activities Title
Patterns with numbers	Counting by Fives
	Count by Fives
	Counting by Tens
	Count by Tens
	Count by 2s, 5s and 10s
	Counting up in 4s
	Dividing Fives
	Grouping in Fives

Dividing Tens
Grouping in Tens
Dividing Fours
Grouping in Fours
Dividing Threes
Grouping in Threes
Skip Counting with Coins

3 Measurement

VC2M3M01 Identify which metric units are used to measure everyday items; use measurements of familiar items and known units to make estimates	
Skill Quests	Skills
Identify metric units of	Introducing centimetres
measure	Introducing millimetres
	Selecting appropriate units to measure length
	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
Course Topic	Activities Title
Length, capacity & mass	Which Unit of Measurement?
	Which Measuring Tool?
	Using a Litre

VC2M3M02 Measure and compare objects using familiar metric units of length, mass and capacity, and instruments with labelled markings	
Skill Quests	Skills
Length, mass & capacity	Comparing, ordering & measuring length
	Comparing, ordering & measuring capacity
	Comparing, ordering & measuring mass
Course Topic	Activities Title
Length, capacity & mass	Using a Litre
	How Long is That?
	Measure to the Nearest Half Centimetre
	How Heavy?
	Ordering Mass (g)

VC2M3M03 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 Quests	Skills
Introduce units of time	Introducing hours
	Introducing minutes
	Introducing seconds
Duration & units of time	Understanding relationship between units of time
	Understanding duration
Course Topic	Activities Title
Time: Five minute times &	Five Minute Times
conversions	What is the Time?
	Time Conversions: Whole Numbers 1

VC2M3M04 Describe the relationship between the hours and minutes on analog and digital clocks, and read the time to the nearest minute	
Skill Quests	Skills
Tell time	Telling time to five minutes
	Telling time to the minute
Course Topic	Activities Title
Time: Five minute times &	Five Minute Times
conversions	What is the Time?

VC2M3M05 Identify angles as measures of turn and use right angles as a reference to compare angles in everyday situations	
Skill Quests	Skills
Identify & compare angles	Introducing angles
	Introducing right angles
Course Topic	Activities Title
Introduction to angles	Equal Angles
	Comparing Angles
	Right Angle Relation

4 Space

VC2M3SP01	
Make, compare and classify objects, identifying key features and explaining why these features	
	make them suited to their uses
Skill Quests	Skills
3D objects	Exploring prisms & pyramids
	Introducing nets
	Recognising & comparing 3D objects
	Describing & sorting 3D objects
	Comparing 2D shapes & 3D objects
Course Topic	Activities Title
Classify shapes	How Many Faces?
	How many Edges?
	Count the Corners
	Count Sides and Corners
	Relate Shapes and Solids
	Collect the Objects

VC2M3SP02 Interpret and create two-dimensional representations of familiar environments, locating key landmarks and objects relative to each other	
Skill Quests	Skills
Interpret & create maps	Interpreting simple maps
Course Topic	Activities Title
Position	Following Directions
	Coordinate Meeting Place
	Map Coordinates
	Where is it?

5 Statistics

VC2M3ST01 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	
Skill Quests	Skills
Collect & record data	Collecting & recording category data
	Using tables
Course Topic	Activities Title
Sort, represent & interpret	Tallies
data	Sorting Data
	Pictographs
	Column Graphs

VC2M3ST02 Create and compare different graphical representations of data sets, including using software where appropriate; interpret the data in terms of the context	
Skill Quests	Skills
Create & compare data	Representing & interpreting data displays
representations	Comparing data displays
Course Topic	Activities Title
Sort, represent & interpret	Interpreting Tables
data	Reading from a Column Graph
	Add and Subtract Using Graphs

VC2M3ST03 Conduct guided statistical investigations involving the collection, representation and interpretation of data for categorical and discrete numerical variables with respect to questions of interest	
Skill Quests	Skills
Understand statistical	Introducing the statistical investigation process
investigations	Conducting a statistical investigation
Course Topic	Activities Title
Teacher directed	

6 Probability

VC2M3P01	
Identify practical activities and everyday events that involve chance, and describe possible outcomes and events as 'likely' or 'unlikely' and identify some events as 'certain' or 'impossible',	
explaining reasoning	
Skill Quests	Skills
Language of chance	Using basic probability language
Course Topic	Activities Title
Probability	Will it Happen?
	Most Likely and Least Likely
	Introductory probability
	What are the Chances?

VC2M3P02	
Conduct repeated chance experiments; identify and describe possible outcomes, record the	
result	s, and recognise and discuss the variation
Skill Quests	Skills
Chance experiments	Conducting chance experiments
Course Topic	Activities Title
Probability	How many Combinations?

Grade 4

1 Number

Course Topic	Activities Title
REVIEW Whole Numbers &	Place Value 3
Place Value	Place Value – Thousands
	Partition and Rename 2
	Partition and Rename 3
	Smallest and largest numbers
	Numbers from Words to Digits 1

VC2M4N01 Recognise and extend the application of place value to tenths and hundredths and use the conventions of decimal notation to name and represent decimals	
Skill Quests	Skills
Place value to hundredths	Introducing decimal notation
	Understanding decimal tenths
	Understanding decimal hundredths
	Partitioning decimal hundredths
Connect decimals & fraction	Connecting fractions & decimal notation
Round decimal tenths & hundredths	Rounding decimal tenths & hundredths
Decimals used in money	Understanding decimals used in money
Course Topic	Activities Title
Introducing decimals	Decimals from Words to Digits 1
	Decimals on the Number Line
	Decimal Place Value
	Who's got the Money?
	Money

VC2M4N02	
Investigate number sequences involving multiples of 3, 4, 6, 7, 8 and 9	
Skill Quests	Skills
Investigating sequences with multiples	Investigating sequences with multiples
Course Topic	Activities Title
Patterns in multiplication &	Grouping in Threes
division	Grouping in Fours
	Grouping in Sixes
	Grouping in Sevens
	Grouping in Eights
	Grouping in Nines
	Dividing Threes
	Dividing Fours
	Dividing Sixes
	Dividing Sevens
	Dividing Nines

VC2M4N03 Find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation	
Skill Quests	Skills
Equivalent fractions	Investigating equivalent fractions less than 1
	Investigating equivalent fractions greater than 1
	Patterns in equivalent fractions
	Using multiplication to find equivalent fractions
Course Topic	Activities Title
Fractions & equivalents	What Fraction is Shaded?
	What Fraction Is Shaded 1
	What Mixed Number Is Shaded?
	Equivalent Fraction Wall 1
	Equivalent Fraction Wall 2
	Simplifying Fractions

VC2M4N04 Count by multiples of quarters, halves and thirds, including mixed numerals; locate and represent these fractions as numbers on number lines	
Skill Quests	Skills
Count by fractions & mixed	Counting in halves & quarters
numerals	Counting in halves, quarters & eighths
	Counting in thirds
	Counting in tenths
	Counting in simple fractions on a number line
Convert fraction types using models	Converting mixed numerals to improper fractions
Course Topic	Activities Title
Fractions & equivalents	Partition into Equal Parts
	Counting with Fractions on a Number Line

VC2M4N05 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	
Skill Quests	Skills
Mult/div by multiples of 10,	Using place value to multiply by 10
100 & 1000	Multiplying by multiples of 100
	Multiplying by 1000
	Dividing by multiples of 10
	Dividing by multiples of 100
	Dividing by 1000
Course Topic	Activities Title
Patterns in multiplication &	Multiplying by 10, 100, 1000
division	Dividing by 10, 100, 1000

VC2M4N06

Develop efficient mental and written strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no remainder

remainder	
Skill Quests	Skills
Addition & subtraction	Addition algorithms (without regrouping)
using algorithms	Addition algorithms (with regrouping)
	Addition algorithms (with & 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, no	Multiplication strategies: 1-digit numbers
remainder	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
Course Topic	Activities Title
Strategies to add & subtract	Bump Add and Subtract
	Jump Add and Subtract
	Complements to 10, 20, 50
	Split Add and Subtract
	Compensation – Add
	Column Addition 1
	Columns that Subtract
	Subtract Numbers
	Estimate Sums
	Estimate Differences
	Magic Symbols 1
Strategies to multiply &	Double and Halve to Multiply
divide	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

VC2M4N07 Choose and use estimation and rounding to check and explain the reasonableness of calculations, including the results of financial transactions	
Skill Quests	Skills
Use estimation & rounding	Rounding & estimating with addition
_	Rounding & estimating with subtraction
	Checking accuracy of addition & subtraction
	Estimating with multiplication & division
Course Topic	Activities Title
Strategies to add & subtract	Estimate Sums
	Estimate Differences
Strategies to multiply & divide	Estimation: Multiply and Divide

VC2M4N08 Solve problems involving purchases and the calculation of change to the nearest 5 cents with and without digital tools	
Skill Quests	Skills
Solving money problems	Addition & subtraction money problems
	Using estimating with money
Course Topic	Activities Title
Problem solving with	How much Change?
models	

VC2M4N09

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

Skill Quests	Skills
Addition & subtraction word	Addition & subtraction word problems
problems	Posing addition & subtraction problems
	Expressing word problems as equations
Multiplication & division	Expressing equations as word problems
word problems	Solving multiplication & division word problems.
Course Topic	Activities Title
Problem solving with	Bar Model Problems 1
Problem solving with models	Bar Model Problems 1 Bar Model Problems 2
3	
3	Bar Model Problems 2
3	Bar Model Problems 2 Fractions of a Collection 1

	VC2M4N10
Follow and create algorithms	s involving a sequence of steps and decisions that use addition or
multiplication to generate	sets of numbers; identify and describe any emerging patterns
Skill Quests	Skills
Sequences & patterns	Exploring number patterns
	Finding & generating shape patterns from a rule

	Generating add/sub 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
Course Topic	Activities Title
Teacher directed	

2 Algebra

Find unknown values in nu	VC2M4A01
	merical equations involving addition and subtraction, using the properties of numbers and operations
Skill Quests	Skills
Addition & subtraction	Using inverse operations for add/sub equations
number sentences	Relationship between addition & subtraction
	Equivalent number sentences
	Word problems for finding unknown quantities
Course Topic	Activities Title
Patterns & missing numbers	Describing Patterns
	Missing Values
	I am Thinking of a Number!
	Balance Numbers to 20
	Odd and Even Numbers 1

facts, and explain the patterr	VC2M4A02 iciency with multiplication facts up to 10 × 10 and related division as in these; extend and apply facts to develop efficient mental and correspond to respond to the computation with larger numbers without a calculator
Skill Quests	Skills
Multiplication & division	Multiplication & division facts up to 5
facts	Multiplying & dividing by 6 up to 60
	Multiplying & dividing by 7 up to 70
	Multiplying & dividing by 8 up to 80
	Multiplying & dividing by 9 up to 90
	Multiplying & dividing to 10 x 10
Course Topic	Activities Title
Patterns in multiplication &	Grouping in Threes
division	Grouping in Fours
	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
	Multiplying by 10, 100, 1000
	Dividing by 10, 100, 1000

3 Measurement

	VC2M4M01 ruments to interpret unmarked and partial units to measure and capacities, durations and temperatures, using appropriate units
Skill Quests	Skills
Length, mass, capacity &	Metric units of length
temperature	Length & 3D objects
·	Measuring temperature
	Measuring capacity in millilitres
	Measuring mass in grams & kilograms
	Reading scales with metric units
Course Topic	Activities Title
Using scaled instruments	How Heavy?
	How Long is That?
	Measuring Length
	Measure to the Nearest Half Centimetre
	What's the Temperature (Celsius)?
Perimeter, area & volume	Perimeter of Shapes
	Area of Shapes
	Equal Areas
	Biggest Shape
	How many Blocks?
	Comparing Volume
	Volume of Solids and Prisms - 1 cm3 blocks
Time conversions	What is the Time?
	Time Conversions: Whole Numbers 1
	Time Conversions: Whole Numbers 2
	Time Conversions: Simple Fractions
	Time Conversions: Simple Decimals
Angles	Equal Angles
	Comparing Angles
	Right Angle Relation
	What Type of Angle?

Recognise ways of measu	VC2M4M02 uring and approximating the perimeter and area of shapes and
	aces, using appropriate formal and informal units
Skill Quests	Skills
Measure perimeter	Introducing perimeter
	Measuring perimeter
Measure area	Measuring & estimating area using square units
	Introducing area using formal units
	Measuring & comparing regular & irregular shapes
	Measuring area using formal units
Course Topic	Activities Title
Perimeter, area & volume	Perimeter of Shapes
	Area of Shapes
	Equal Areas

Solve problems involving the	VC2M4M03 e duration of time including situations involving 'am' and 'pm' and conversions between units of time
Skill Quests	Skills
Convert units of time	Converting units of time
Solve duration of time	Understanding am & pm notation
problems	Solving duration of time problems
Course Topic	Activities Title
Time conversions	What is the Time?
	Time Conversions: Whole Numbers 1
	Time Conversions: Whole Numbers 2
	Time Conversions: Simple Fractions
	Time Conversions: Simple Decimals

	VC2M4M04 s using angle names including acute, obtuse, straight angle, reflex n, and recognise their relationship to a right angle
Skill Quests	Skills
Classify angles	Classifying angles
Course Topic	Activities Title
Angles	Equal Angles
	Comparing Angles
	Right Angle Relation
	What Type of Angle?

4 Space

Explain and compare the	VC2M4SP01 e geometric properties of two-dimensional shapes and three-dimensional objects
Skill Quests	Skills
Composing & decomposing	Composing & decomposing 2D shapes
2D shapes	
Course Topic	Activities Title
Shapes & solids	Relate Shapes and Solids
	Collect the Objects 2

·	VC2M4SP02 nate composite shapes and objects in the environment, using abinations of familiar shapes and objects
Skill Quests	Skills
Identify composite shapes & objects	Identify composite shapes & objects
Course Topic	Activities Title
Teacher directed	

	VC2M4SP03
Create and interpret grid ref	erence systems using grid references and directions to locate and
	describe positions and pathways
Skill Quests	Skills
Create & interpret grid	Working with grid reference systems
references	
Course Topic	Activities Title
Course Topic Describing position	Activities Title Coordinate Meeting Place
	Coordinate Meeting Place
	Coordinate Meeting Place Map Coordinates

VC2M4SP04	
Recognise line and rotational symmetry of shapes and create symmetrical patterns and	
pictures, using dynamic geometry software where appropriate	
Skill Quests	Skills
Line & rotational symmetry	Recognising & drawing line symmetry
	Rotational symmetry
Symmetrical patterns,	Creating & drawing symmetrical designs
pictures & shapes	Recognising tessellations
Course Topic	Activities Title
Symmetry	Symmetry
	Symmetry or Not?
	Rotational Symmetry

5 Statistics

VC2M4ST01

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

Skill Quests	Skills
Represent data with many-	Column graphs using many-to-one correspondence
to-one graphs	Picture graphs with many-to-one correspondence
Course Topic	Activities Title
Collect, display & interpret	Picture Graphs: with scale & half symbols
data	Making Picture Graphs: With Scale
	Column Graphs
	Reading from a Column Graph
	Histograms
	Frequency Histograms

VC2M4ST02 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	
Skill Quests	Skills
Evaluate & compare data displays	Evaluating & comparing data displays
Course Topic	Activities Title
Collect, display & interpret	Histograms
data	Frequency Histograms

VC2M4ST03	
Conduct statistical investigations, collecting data through survey responses and other methods;	
record and display data usi	ng digital tools; interpret the data and communicate the results
Skill Quests	Skills
Methods of data collection	Surveys & sorting data
Course Topic	Activities Title
Teacher directed	

6 Probability

	VC2M4P01
	vents and the possible outcomes of chance experiments and order on their likelihood of occurring; identify independent or dependent
events	
Skill Quests	Skills
Chance events	Describing the chance of events occurring
	Exploring non-simultaneous everyday events
	Independent & dependent events
Course Topic	Activities Title
Probability	Chance Gauge
	What are the Chances?
	Counting Techniques 1

VC2M4P02	
Conduct repeated chance experiments to observe relationships between outcomes in games	
and other chance situations, and identify and describe the variation in results	
Skill Quests	Skills
Chance experiments	Conducting chance experiments
	Investigating equally likely outcomes of chance
Course Topic	Activities Title
Teacher aligned	

Grade 5

Course Topic	Activities Title
REVIEW Whole Numbers &	Place Value to Millions
Place Value	Numbers from Words to Digits 1
	Numbers from Words to Digits 2
	Greater Than or Less Than?
	Partition and Rename 3/Understanding Place Value 3 (CAN)
	Expanded Notation
	Place Value 2
	Place Value 3
	Place Value 1
	Who's got the Money?
	Money

1 Number

VC2M5N01	
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
Skill Quests	Skills
Understand decimals to	Introducing decimal thousandths
thousandths	Partitioning decimals of any size
	Comparing & ordering decimals
	Interpreting zeros at end of decimals
	Decimal & fraction equivalences
	Connecting decimals to the metric system
Course Topic	Activities Title
Decimals	Decimals from Words to Digits 1
	Decimals on the Number Line
	Decimal Place Value
	Nearest Whole Number

Express natural numbers as	VC2M5N02 products of their factors, recognise multiples and determine if one
Chill Overste	number is divisible by another
Skill Quests	Skills
Multiples & factors	Finding multiples
	Finding factors
	Solving problems using factors & multiples
Divisibility tests	Divisibility tests for 2, 5 & 10
	Divisibility tests for 3, 4, 6, 8 & 9
Course Topic	Activities Title
Factors & Multiples	Multiples
	Lowest Common Multiple
	Factors
	Highest Common Factor
	Find the Factor

Divisibility Tests (2, 5, 10)
Divisibility Tests (3, 4, 9)
Tests of Divisibility 1

VC2M5N03

Compare and order common unit fractions with the same and related denominators, including mixed numerals, applying knowledge of factors and multiples; represent these fractions on a number line

Skill Quests	Skills
Compare & order fractions	Comparing & ordering fractions
	Comparing & ordering fractions & mixed numbers
	Using common factors to simplify proper fractions
Course Topic	Activities Title
Compare & order fractions	Shading Equivalent Fractions
	Equivalent Fraction Wall 2
	Equivalent Fractions on a Number Line 1
	Equivalent Fractions
	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

VC2M5N04

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

	equivalents
Skill Quests	Skills
Fractions, decimals &	Introducing percentages
percentages	Connecting percentages & decimals
	Connecting percentages & fractions
	Relationship - percentages, decimals & fractions
Course Topic	Activities Title
Fractions, decimals &	Modelling Percentages
percentages	Fractions to Decimals
	Percents and Decimals
	Common Fractions as Percentages (AU)
	Decimal Order

VC2M5N05		
Solve problems involving addition and subtraction of fractions with the same or related		
denominators, using different strategies		
Skill Quests	Skills	
Add & subtract fractions	Add & subtract proper fractions - same denominator	
	Add & subtract mixed numerals - same denominator	

	Add & subtract fractions - related denominators
	Add & subtract mixed num - related denominators
Course Topic	Activities Title
Add & subtract fractions	Add: Common Denominator
	One Take Fraction
	Subtract: Common Denominator
	Add Subtract Fractions 1
	Common Denominator
	Add Like Mixed Numbers
	Subtract Like Mixed Numbers
Teacher directed for related denominators	

VC2M5N06	
Solve problems involving multiplication of larger numbers by one- or two-digit numbers,	
choosing efficient mental and written calculation strategies and using digital tools where	
approp	priate; check the reasonableness of answers
Skill Quests	Skills
Strategies to multiply by 1-	Multiplication using multiples of 10
or 2-digits	Multiplying: rounding, compensating & partitioning
	Multiplying: doubling, halving & thirding
	Multiplying using the split method
	Multiplying using an area model
	Multiplying by factorising
	Multiplying using expanded algorithm
	Multiplying using contracted algorithm
	Multiplying using extended form of algorithm
Course Topic	Activities Title
Multiply & divide by 2 digits	Multiply Multiples of 10
	Multiply More Multiples of 10
	Multiply 2 Digits Area Model
	Grid Methods 1
	Double and Halve to Multiply
Rounding & estimating	Estimate Products
	Estimation: Multiply and Divide

VC2M5N07 Solve problems involving division, choosing efficient mental and written strategies and using digital tools where appropriate; interpret any remainder according to the context and express results as a whole number, decimal or fraction	
Skill Quests	Skills
Division strategies incl.	Dividing by a 1-digit number using partitioning
remainders	Dividing by a 2-digit number using partitioning
	Dividing by a 1-digit number using factorising
	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
Course Topic	Activities Title
Multiply & divide by 2 digits	Mental Methods Multiplication 1
	Dividing by 10, 100, 1000
	Division Facts 1
	Remainders by Arrays
	Mental Methods Division 1
	Mental Methods Division
Rounding & estimating	Estimate Quotients
	Estimation: Multiply and Divide

VC2M5N08	
Check and explain the reasonableness of solutions to problems, including financial contexts	
using es	timation strategies appropriate to the context
Skill Quests	Skills
Estimation & rounding	Rounding to estimate addition & subtraction
	Rounding to estimate multiplication & division
	Estimating with money
Course Topic	Activities Title
Rounding & estimating	Rounding Numbers
	Rounding Numbers 1
	Estimate Sums
	Estimate Differences
	Estimate Products
	Estimate Quotients
	Estimation: Multiply and Divide
	Estimate Decimal Sums 2
	Estimate Decimal Operations

VC2M5N09

Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including simple financial planning contexts; formulate the problems, choosing operations and efficient mental and written calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation

Skill Quests	Skills
Add & subtract practical	Addition & subtraction word problems
problems	Expressing word problems as equations add/sub
	Solving add & subtract money problems
Multiply & divide practical	Multiplication & division word problems
problems	Expressing word problems as equations mult/div
	Solving mult-step mult/div word problems
	Solving mult & div money problems
All operations practical problems	Express equations as word problems all operations
Course Topic	Activities Title
Solving practical problems	Columns that Add
	Add Two 2-Digit Numbers
	Add 3-Digit Numbers
	Columns that Subtract
	Subtract Numbers

Multiply: 1-Digit Number
Multiply: 2-Digit by 1-Digit
Divide: 1-Digit Divisor 1
Bar model × ÷
Problems: Times and Divide

VC2M5N10	
Follow a mathematical algorithm involving branching and repetition (iteration); 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	
Skill Quests	Skills
Create & use algorithms	Manipulating numbers using a given rule
	Designing flowcharts to solve add/sub of fractions
	Factors & multiples
Course Topic	Activities Title
Missing Values	Equivalent Facts: Multiply
	Missing Values
	Missing Numbers: Variables
	Solve Equations: Multiply, Divide 1
	I am Thinking of a Number!
	Fit the Conditions 1

2 Algebra

VC2M5A01		
Recognise and explain the connection between multiplication and division as inverse		
operations	operations and use this to develop families of number facts	
Skill Quests	Skills	
Connect multiplication &	Inverse relationship - multiplication & division	
division		
Course Topic	Activities Title	
Family of facts	Fact Families: Multiply and Divide	
	Multiplication Turnarounds	

VC2M5A02 Find unknown values in numerical equations involving multiplication and division using the properties of numbers and operations	
Skill Quests	Skills
Find unknown values in mult & div	Finding unknown values - multiplication & division
Course Topic	Activities Title
Family of facts	Missing Numbers: × and ÷ facts
	Times Tables
	Multiply 3 single-digit numbers

3 Measurement

VC2M5M01 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	
Skill Quests	Skills
Choose appropriate metric	Introducing kilometres
units	Comparing & ordering units of length
	Selecting appropriate units – length
	Comparing & ordering units of mass
	Selecting appropriate units – mass
	Selecting appropriate units – capacity
	Recognising suitable metric units - all
Course Topic	Activities Title
Metric conversions	Kilometre Conversions
	Metres and Kilometres
	Millilitres and Litres
	Litre Conversions
	Kilogram Conversions
	Grams and Kilograms

VC2M5M02 Solve practical problems involving the perimeter and area of regular and irregular shapes using appropriate metric units	
Skill Quests	Skills
Perimeter & area - practical	Calculating perimeter practical problems
problems	Calculating area practical problems
Course Topic	Activities Title
Perimeter & area	Perimeter: Squares and Rectangles
	Area of Shapes
	Biggest Shape/Bigger or smaller shape
	Equal Areas
	Area: Squares and Rectangles

VC2M5M03 Compare 12- and 24-hour time systems and solve practical problems involving the conversion between them	
Skill Quests	Skills
Use 24-hour time	Using 24-hour notation
	Using 24-hour time in timetables
Course Topic	Activities Title
Time problems	Time Conversions: Simple Fractions
	Time Conversions: Simple Decimals
	What Time Will it Be?
	Time Mentals
	Elapsed Time
	24 Hour Time
	Using Timetables

VC2M5M04 Estimate, construct and measure angles in degrees, using appropriate tools, including a protractor, and relate these measures to angle names	
Skill Quests	Skills
Estimate, construct &	Identifying, estimating & measuring angles
measure angles	Classifying & constructing angles
Course Topic	Activities Title
Angles	Classifying Angles
	Measuring Angles
	Estimating Angles

4 Space

VC2M5SP01 Connect objects to their nets and build objects from their nets using spatial and geometric reasoning	
Skill Quests	Skills
Connect objects to nets	Connecting prisms & pyramids with their nets
	Connecting 3D objects with their nets
Course Topic	Activities Title
Shapes & solids	What Pyramid am I?
	What Prism am I?
	Prisms and Pyramids

VC2M5SP02	
Construct a grid coordinate system that uses coordinates to locate positions within a space;	
use coordinates and	directional language to describe position and movement
Skill Quests	Skills
Use coordinates in a grid	Working with grid referenced maps
system	Using Cartesian coordinate system - first quadrant
	Using landmarks & directional language
Course Topic	Activities Title
Position	Map Coordinates
	Coordinate Graphs: 1st Quadrant
	More Directions!

VC2M5SP03 Describe and perform translations, reflections and rotations of shapes, using dynamic geometry software where appropriate; recognise what changes and what remains the same, and identify any symmetries	
Skill Quests	Skills
Identify & describe transformations	Identifying & describing transformations
Course Topic	Activities Title
Transformations	Flip, Slide, Turn
	Transformations
	Rotational Symmetry

5 Statistics

VC2M5ST01

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

Skill Quests	Skills
Acquire, validate &	Conducting surveys or statistical investigations
represent data	
Understand data	Understanding & calculating the mode
distributions	Introducing the shape of data distribution
Course Topic	Activities Title
Collect, display & interpret	Stem and Leaf Plots: Concept
data	Dot Plots
	Divided Bar Graphs
	Tally Charts
	Sector Graphs
	Mode
	Mode from Stem and Leaf Plot
	Mode from Frequency Table
	Grouping data and modal class

VC2M5ST02		
	Interpret line graphs representing change over time; discuss the relationships that are	
represented and conclusions that can be made		
Skill Quests	Skills	
Interpret line graphs	Interpreting line graphs	
Course Topic	Activities Title	
Collect, display & interpret	Line Graphs: Interpretation	
data	Travel Graphs	

VC2M5ST03

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

Skill Quests	Skills
Teacher directed	
Course Topic	Activities Title
Teacher directed	

6 Probability

VC2M5P01 List the possible outcomes of chance experiments involving equally likely outcomes and	
compare to those that are not equally likely	
Skill Quests	Skills
Outcomes of chance	Investigating equally likely outcomes
experiments	Exploring fair & unfair chance experiments
Course Topic	Activities Title
Probability	What are the Chances?
	Chance Gauge
	Introductory probability
	Fair Games

VC2M5P02	
Conduct repeated chance experiments, including those with and without equally likely	
outcomes, and observe and record the results; use frequency to compare outcomes and	
estimate their likelihoods	
Skill Quests	Skills
Teacher directed	
Course Topic	Activities Title
Teacher directed	

Grade 6

Course Topic	Activities Title
REVIEW Whole Numbers &	Place Value to Millions
Place Value	Numbers from Words to Digits 1
	Numbers from Words to Digits 2
	Partition and Rename 3/Understanding Place Value 3 (CAN)
	Expanded Notation
	Place Value 2
	Place Value 3

1 Number

3	VC2M6N01 Iding financial contexts, that use integers; locate and represent mber line and as coordinates on the Cartesian plane
Skill Quests	Skills
Understand integers	Recognising situations that use integers Locating & representing integers on a number line Introducing the Cartesian plane
Course Topic	Activities Title
Introducing integers	Integers on a Number Line Ordering Integers (Number Line) Comparing Integers (<, =, >) What's the Temperature (Celsius)?

	VC2M6N02 operties of prime, composite, square and triangular numbers and perties to solve problems and simplify calculations
Skill Quests	Skills
Prime & composite numbers	Introducing prime & composite numbers
Square & triangular	Introducing square numbers
numbers	Describing triangular numbers
Course Topic	Activities Title
Multiples, factors, primes &	Multiples
composites	Multiples of
	Highest Common Factor
	Lowest Common Multiple
	Prime or Composite?

	VC2M6N03
Apply knowledge of equivale	ence to compare, order and represent common fractions, including
halves, thirds and c	uarters, on the same number line and justify their order
Skill Quests	Skills
Compare & order common	Recognise, compare & represent common fractions
fractions	Comparing common fractions on a number line

Course Topic	Activities Title
Equivalent fractions	Equivalent Fraction Wall 1
	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

	VC2M6N04
Apply knowledge of place	e value to add and subtract decimals, using digital tools where
appropriate; use estim	ation and rounding to check the reasonableness of answers
Skill Quests	Skills
Add/sub decimals - mental	Adding decimals using mental strategies
strategies	Subtracting decimals using mental strategies
Add/sub decimals - digital	Adding decimals using digital technologies
technologies	Subtracting decimals using digital technologies
Add/sub decimals - written	Adding decimals using written method
method	Subtracting decimals using written method
Add/sub decimals –	Estimating sums & differences of decimals
estimating	
Course Topic	Activities Title
Add & subtract decimals	Decimal Complements
	Adding Decimals
	Subtract Decimals 1
	Estimate Decimal Sums 1
	Estimate Decimal Differences 1
	Estimate Decimal Differences 2

Solve problems involving ad	VC2M6N05 dition and subtraction of fractions using knowledge of equivalent fractions
Skill Quests	Skills
Add & subtract proper	Adding fractions with related denominators
fractions	Subtracting fractions with related denominators
	Add & subtract fractions - related denominators
Add & subtract mixed	Adding fractions & mixed numerals
numerals	Subtracting fractions & mixed numerals
Course Topic	Activities Title
Add & subtract fractions	Add: Common Denominator
	One Take Fraction
	Subtract: Common Denominator
	Add Subtract Fractions 1
	Common Denominator
	Add Like Mixed Numbers
	Subtract Like Mixed Numbers

VC2M6N06

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

Skill Quests	Skills
Multiply/divide decimals by	Multiplying decimals by powers of 10
powers of 10	Dividing decimals by powers of 10
	Using estimation
Course Topic	Activities Title
Fractions, decimals &	Multiply Decimals: 10, 100, 1000
percentages	Divide Decimals: 10, 100, 1000

VC2M6N07

Solve problems that require finding a familiar fraction, decimal or percentage of a quantity, including percentage discounts, choosing efficient calculation strategies with and without digital tools

Skill Quests	Skills
Find a fraction of a quantity	Finding a fraction of a quantity
Calculate percentages	Calculating percentages
Course Topic	Activities Title
Fractions, decimals &	Fractions to Decimals
percentages	Decimals to Fractions 1
	Percentage to Fraction
	Decimals to percentages
	Common Fractions as Percentages (AU)
	Fractions to Percentages (Non-Calculator)
	Percents and Decimals
	Match Decimals and Percentages
	Calculating Percentages (Mental)
	Fraction Word Problems
	Percentage Word Problems
	Model Fractions to Multiply

• •	VC2M6N08 utions to problems involving rational numbers and percentages, sing appropriate estimation strategies
Skill Quests	Skills
Rational numbers &	Estimating solutions
percentages	
Course Topic	Activities Title
Estimating	Estimation: Multiply and Divide
	Estimate Decimal Sums 2
	Estimate Decimal Operations
	Estimate Products with Fractions

VC2M6N09

Use mathematical modelling to solve practical problems involving rational numbers and percentages, including in financial contexts; formulate the problems, choosing operations and using efficient mental and written calculation strategies, and using digital tools where appropriate; interpret and communicate solutions in terms of the situation, justifying the choices made

Skill Quests	Skills
Solve practical percentage problems	Solving practical percentage problems
Course Topic	Activities Title
Solve problems with	Money Problems: Four Operations
rational numbers	Time Conversions: Simple Fractions
	Time Conversions: Simple Decimals

2 Algebra

Recognise and use rules	VC2M6A01 that generate visually growing patterns and number patterns involving rational numbers
Skill Quests	Skills
Recognise & use rules for patterns	Continuing & creating number sequences
Course Topic	Activities Title
Patterns, equations & rules	Increasing Patterns
	Describing Patterns
	Find the Pattern Rule
	Table of Values
	Pattern Rules and Tables
	Number Sequences Up to 1 Million

	VC2M6A02
	erical equations involving brackets and combinations of arithmetic
operations,	using the properties of numbers and operations
Skill Quests	Skills
Understand order of	Order of operations with no grouping symbols
operations	Order of operations using grouping symbols
	Order of operations practical situations
Course Topic	Activities Title
Course Topic Patterns, equations & rules	Activities Title Order of Operations 1 (BIDMAS)
	Order of Operations 1 (BIDMAS)
	Order of Operations 1 (BIDMAS) Writing Algebraic Expressions
	Order of Operations 1 (BIDMAS) Writing Algebraic Expressions Missing Numbers: Variables

VC2M6A03	
Design and use algorithms involving a sequence of steps and decisions that use rules to	
generate sets of numbers; identify, interpret and explain emerging patterns	
Skill Quests	Skills
Design flowcharts to solve	Designing flowcharts to solve problems
problems	
Use rules & algorithms	Manipulating numbers using a given rule
	Creating algorithms for sets
Course Topic	Activities Title
Teacher directed	

3 Measurement

VC2M6M01	
Convert between common metric units of length, mass and capacity; choose and use decimal	
	netric measurements relevant to the context of a problem
Skill Quests	Skills
Connect decimals to the	Decimal notation & the metric system
metric system	Decimal representation in capacity
	Decimal representation in mass
Convert metric units of	Converting metric units of length
measurement	Converting metric units of capacity
	Converting metric units of mass
Course Topic	Activities Title
Metric conversions	Grams and Kilograms 1
	Grams and Kilograms
	Grams and Milligrams
	Converting Units of Mass
	Centimetres and Metres
	Metres and Kilometres
	Millilitres and Litres
	Converting Volume

VC2M6M02	
Establish the formula for the area of a rectangle and use it to solve practical problems	
Skill Quests	Skills
Use formula for area of a	Using a formula to calculate area of a rectangle
rectangle	
Course Topic	Activities Title
Area	Area of Shapes
	Area: Squares and Rectangles

VC2M6M03 Measure, calculate and compare elapsed time; interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	
Skill Quests	Skills
Interpret & use timetables	Interpreting & using timetables
Course Topic	Activities Title
Time problems	Time Mentals
	Elapsed Time
	Using Timetables
	Australian Time Zones
	What Time Will it Be?

VC2M6M04 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 **Skill Quests** Skills Understand angle Understanding adjacent angles properties Exploring vertically opposite angles Calculating angles that total 360 ° Investigating supplementary & complementary angles **Activities Title Course Topic** Angle relationships Measuring Angles **Estimating Angles** Angle Sum of a Triangle Quadrilaterals: Angle Sum with Equations Exterior Angles of a Triangle Angles of revolution: Unknown Values Vertically Opposite Angles: Unknown Values

4 Space

VC2M6SP01	
Compare the parallel cross-sections of objects and recognise their relationships to right prisms	
Skill Quests	Skills
Investigate cross-sections	Investigating cross-sections
Course Topic	Activities Title
Teacher directed	

VC2M6SP02 Locate points in the 4 quadrants of the Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	
Skill Quests	Skills
Points on the Cartesian	Locating points on the Cartesian plane
plane	
Course Topic	Activities Title
Working on a Cartesian	Ordered Pairs
plane	Number Plane
	Graphing from a Table of Values
	Reading Values from a Line

VC2M6SP03	
Recognise and use combinations of transformations to create tessellations and other geometric	
patterns, using dynamic geometry software where appropriate	
Skill Quests	Skills
Use combinations of	Recognising tessellations
transformations	Identifying a sequence of 2 transformations
Course Topic	Activities Title
Working on a Cartesian	Transformations: Coordinate Plane
plane	Rotations: Coordinate Plane

5 Statistics

VC2M6ST01

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

Skill Quests	Skills
Interpret, compare &	Two-way tables
describe data sets	Side-by-side column graphs
	Comparing & selecting bivariate data displays
	Describing & interpreting data sets
Compare mode, range &	Understanding mode, range & shape of distributions
shape	Comparing modes in sets of data
Course Topic	Activities Title
Analyse & interpret data	Mode
	Mode from Stem and Leaf Plot
	Mode from Frequency Table
	Data Extremes and Range
	Stem and Leaf Plots with Range
	Double Stem and Leaf Plots
	Line Graphs: Interpretation

VC2M6ST02	
Identify statistically informed arguments presented in traditional and digital media; discuss and	
critique methods, data representations and conclusions	
Skill Quests	Skills
Interpret & evaluate	Interpreting & evaluating secondary data
secondary data	
Course Topic	Activities Title
Teacher directed	

VC2M6ST03

Plan and conduct statistical investigations by posing and refining questions to collect categorical or numerical data by observation or survey, or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation

	5
Skill Quests	Skills
Teacher directed	
Course Topic	Activities Title
Teacher directed	

6 Probability

VC2M6P01

Describe probabilities using fractions, decimals and percentages; recognise that probabilities lie on numerical scales of 0–1 or 0%–100%; use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals

Skill Quests	Skills
Assign probabilities	Probability as a fraction, decimal or percent
	Probabilities from 0 to 1
Course Topic	Activities Title
Probability	Simple Probability
	Probability Scale
	Complementary Events
	Dice and Coins

VC2M6P02

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

variation of increasing the namber of thats	
Skill Quests	Skills
Conduct chance	Conducting chance experiments
experiments	
Course Topic	Activities Title
Teacher directed	



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