

Scope & Sequence

New Zealand Curriculum Mathematics and Statistics (2025) Phase 3, Yr 8

Yearly overview

Phase 3: Year 8

Mathletics

Term one			
Week 1	Number	Number structure	Cube numbers Prime and composite numbers and divisibility rules
Week 2	Number	Number structure	Prime factorisation and HCF
Week 3	Number	Number structure Operations	Place value and exponents Division
Week 4	Number Geometry	Operations Shapes	Order of operations (GEMA) Properties of triangles
Week 5	Geometry	Shapes	Properties of quadrilaterals
Week 6	Geometry	Shapes	Polygons
Week 7	Measurement Geometry	Measuring Shapes	Measure angles Angle relationships
Week 8	Number	Rational numbers	Fraction review
Week 9	Number	Rational numbers	Add and subtract fractions

Term two			
Week 1	Number	Rational numbers	Multiply fractions
Week 2	Number	Rational numbers Operations	Decimal review Rounding decimals Add and subtract decimals
Week 3	Number	Rational numbers	Multiply and divide decimals
Week 4	Number	Rational numbers	Percentage review FDP conversion
Week 5	Number	Rational numbers	Find a percentage of a whole number Proportional reasoning
Week 6	Number	Financial mathematics	Money and plans
Week 7	Number	Financial mathematics Rational numbers	Percentage discounts Find a whole amount
Week 8	Probability	Probability investigations	Plan and conduct probability experiments
Week 9	Probability	Probability investigations Critical thinking in probability	Present and analyse the results of probability experiments Critical analysis of chance-based investigation and data

Term three			
Week 1	Number	Operations	Integers Add integers
Week 2	Number	Operations	Subtract integers
Week 3	Algebra	Equations and relationships	Simplify algebraic expressions
Week 4	Algebra	Equations and relationships	Form and solve 1-step linear equations
Week 5	Algebra	Equations and relationships	Substitution Linear patterns
Week 6	Algebra	Equations and relationships	Linear patterns and rules
Week 7	Algebra	Algorithmic thinking	Algorithms
Week 8	Measurement	Measuring Perimeter, area and volume	Estimate and measure Convert units of measurement Area of triangles and rectangles review
Week 9	Measurement	Perimeter, area and volume	Volume

Term four			
Week 1	Statistics	Problem Plan Data	Investigate a problem Plan an investigation Collect data
Week 2	Statistics	Analysis	Analyse data 1
Week 3	Statistics	Analysis	Analyse data 2
Week 4	Statistics	Conclusion Statistical literacy	Communicate findings Critically analyse other investigations
Week 5	Measurement	Measuring	Estimate and measure time Timetables and chart Distance, speed, time
Week 6	Geometry	Pathways	Maps
Week 7	Geometry	Pathways	Compass bearings
Week 8	Geometry	Spatial reasoning	Nets Transformations of 2D shapes
Week 9	Geometry	Spatial reasoning	Transformations of 3D shapes

Number	TERM 1	TERM 2	TERM 3	TERM 4
Number structure				
identify, read, write, compare, and order whole numbers and decimals using powers of 10 (e.g., $0.01 = 1/100 = 10^{-2}$)	W3			
use prime factorisation to represent a number and to find the HCF of two numbers	W2			
identify and describe the properties of prime and composite numbers up to at least 100 and cube numbers up to at least 125	W1			
Operations				
use rounding, estimation, and benchmarks to predict results and to check the reasonableness of calculation		W2		
round whole numbers to any specified power of 10, and round decimals to the nearest tenth, hundredth, thousandth, or whole number		W2		
identify and describe the divisibility rules for 2–11	W1, 3			
divide whole numbers (e.g., $327 \div 15 = 21.8$ or $21\frac{4}{5}$)	W3			
use the order of operations	W4			
order, compare, add, and subtract integers			W1, 2	
Rational numbers				
identify, read, write, and represent fractions, decimals, and percentages	W8	W1, 4		
compare, order, and convert between fractions, decimals, and percentages		W4		
multiply and divide numbers by powers of 10		W3		
find equivalent fractions, simplify fractions, and convert between improper fractions and mixed numbers	W8			
multiply fractions and decimals by whole numbers		W1, 3		
find a percentage of a whole number, and find a whole amount, given a simple fraction or percentage (e.g., “75% is \$45, what is the total amount?”)		W5		
add and subtract fractions with different denominators, using equivalent fractions	W9			
add, subtract, and multiply decimals, with an emphasis on estimating before calculating		W2, 3		
use proportional reasoning to share with unequal proportions (e.g., “We have 100 stickers to share. For every 1 sticker I get, you get 3. How many do we each get?”)		W6		

Number	TERM 1	TERM 2	TERM 3	TERM 4
Financial mathematics				
create and compare weekly, monthly, and yearly finance plans (e.g., saving plans, phone plans, budgets, and ‘buy now, pay later’ services)		W7		
apply percentage discounts		W7		
Algebra				
Equations & relationships				
form and solve one- or two-step linear equations (e.g., $5s + 3 = 18$)			W4	
find the value of an expression or formula, given the values of variables			W5	
simplify algebraic expressions involving sums, products, differences, and single brackets (e.g., using the distributive property, $2(x + 3) + 1 = 2x + 6 + 1 = 2x + 7$)			W3	
determine if a pattern is linear and, if it is, write the equation for the pattern and use the equation to make conjectures			W5, 6	
Algorithmic thinking				
create, test, revise, and use algorithms to identify, interpret, and explain patterns			W7	
Measurement				
Measuring				
estimate and then measure length, area, volume, capacity, mass (weight), temperature, data storage, time, and angle, using appropriate units	W7		W8	W5
select and use an appropriate base measure within the metric system, along with a prefix to show the size of units			W8	
convert between metric measurement units, including square units			W8	
find distance, given speed and time; or time, given distance and speed				W5
– read, interpret, and use timetables, charts, and results that present information about duration – convert times to a common unit, such as seconds or minutes, and use decimal units of time (milliseconds)				W5
Perimeter, area & volume				
calculate the volume of triangular prisms and shapes composed of rectangular prisms			W8, 9	

Geometry	TERM 1	TERM 2	TERM 3	TERM 4
Shapes				
describe triangles, quadrilaterals, and other polygons in relation to their sides, diagonals, and angles	W4–6			
reason about unknown angles in situations involving angles at a point, angles on a straight line, vertically opposite angles, and interior angles of triangles and quadrilaterals	W4–7			
Spatial reasoning				
visualise and draw nets for prisms with a fixed cross section				W8
recognise the invariant properties of 2D and 3D shapes under different transformations				W8, 9
Pathways				
use map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems				W6, 7

Statistics	TERM 1	TERM 2	TERM 3	TERM 4
Problem				
investigate, using multivariate datasets, summary, comparison, time-series, and relationship situations by: – posing an investigative question about a local community matter – making conjectures or assertions about expected findings				W1
Plan				
plan how to collect or source data to answer the investigative question, including: – determining or identifying the variables needed – planning how to collect data for each variable (e.g., how to measure it) or finding out how provided data was collected – identifying the group of interest or who the data was collected from – building awareness of ethical practices in data collection by strategic questioning of data-collection questions or methods				W1
Data				
collect or source data, including: – checking for errors and following up and correcting them when possible – creating an informal data dictionary with information that will help others know about the context				W1

Statistics	TERM 1	TERM 2	TERM 3	TERM 4
Analysis				
– create data visualisations for the investigation, using multiple visualisations to provide different views of the data – make statements about the data, including its features and context, in descriptions of distributions				W2, 3
Conclusion				
communicate findings in context to answer the investigative question, using evidence from analysis, considering possible explanations for findings, and comparing findings to initial conjectures or assertions and their existing knowledge of the world				W4
Statistical literacy				
evaluate the data-collection methods, data visualisations, and findings of others' statistical investigations to see if their claims are reasonable				W4

Probability	TERM 1	TERM 2	TERM 3	TERM 4
Probability investigations				
plan and conduct probability experiments for chance-based situations, including undertaking a large number of trials using digital tools, by: – posing an investigative question – anticipating what outcomes are possible and which of them are more or less likely to occur – identifying and systematically listing possible answers to the investigative question – collecting and recording data – creating data visualisations for the distribution of observed outcomes and for all possible outcomes for theoretical probability models, where they exist – describing what these visualisations show – finding the probability estimates for the different outcomes – proposing possible theoretical outcomes and associated probabilities, for situations where no theoretical model exists – answering the investigative question		W8, 9		
Critical thinking in probability				
identify, explain, and check others' statements about chance-based investigations, referring to evidence		W9		

Week overview	Teaching sequence statements	Online activities	Ebooks		
<p>Week 1</p> <p>Cube numbers Prime and composite numbers and divisibility rules</p> <p>Exponent notation Cube numbers Identify composite and prime numbers</p>	<p>identify and describe the properties of prime and composite numbers up to at least 100 and cube numbers up to at least 125</p> <p>identify and describe the properties of prime and composite numbers up to at least 100 and cube numbers up to at least 125</p> <p>identify and describe the divisibility rules for 2–11</p>	<p>SKILL QUESTS</p> <p>Square & cube numbers</p> <ul style="list-style-type: none"> Finding square roots of perfect squares Finding square roots of non-perfect squares Finding cube roots of perfect cubes Finding cube roots of non-perfect cubes <p>Prime factorisation</p> <ul style="list-style-type: none"> Prime & composite numbers <p>Divisibility</p> <ul style="list-style-type: none"> Describing divisibility rules 	<p>ACTIVITIES (COURSES)</p> <p>Number structure: HCF, square & cube numbers</p> <ul style="list-style-type: none"> Square and Cube Roots Prime or Composite? <p>Operations: Rounding & estimation</p> <ul style="list-style-type: none"> Estimating Square Roots Estimating Cube Roots <p>Operations: Multiplication & division</p> <ul style="list-style-type: none"> Divisibility Tests Tests of Divisibility 1 	<p>CHALLENGES</p> <p>Number & Algebra: Number Theory LEVEL 6–8</p> <ul style="list-style-type: none"> A-maze-ing square and cube numbers (DOK 2) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> Properties of semiprime numbers (DOK 2) Primes and semiprimes (DOK 2) <p>Number & Algebra: Indices LEVEL 7–9</p> <ul style="list-style-type: none"> Reasoning about square and cube numbers (DOK 3) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> The Power of two (DOK 3) Multiple of 5 (DOK 2) Complete the square (DOK 3) 	<p>(Y8-H) Whole numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 32–34, 35, 36) <p>(Y7-G) Reading and Understanding Whole Numbers</p> <ul style="list-style-type: none"> Types of numbers (pp 11–13)
<p>Week 2</p> <p>Prime factorisation and HCF</p> <p>Prime factors Use prime factorisation to find the HCF</p>	<p>use prime factorisation to represent a number and to find the HCF of two numbers</p>	<p>SKILL QUESTS</p> <p>Prime factorisation</p> <ul style="list-style-type: none"> Using prime factorisation to represent a number <p>HCF</p> <ul style="list-style-type: none"> Finding the highest common factor 	<p>ACTIVITIES (COURSES)</p> <p>Number structure: HCF, square & cube numbers</p> <ul style="list-style-type: none"> Factors Product of Prime Factors Highest Common Factor 	<p>(Y8-H) Whole Numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 37–42) 	
<p>Week 3</p> <p>Place value and exponents Division</p> <p>Identify, read, write, compare, and order whole numbers and decimals using powers of 10 Divisibility rules for 2 – 11 Divide whole numbers</p>	<p>identify, read, write, compare, and order whole numbers and decimals using powers of 10 (e.g., $0.01 = 1/100 = 10^{-2}$)</p> <p>identify and describe the divisibility rules for 2–11</p> <p>divide whole numbers (e.g., $327 \div 15 = 21.8$ or $21 \frac{4}{5}$)</p>	<p>SKILL QUESTS</p> <p>Division</p> <ul style="list-style-type: none"> Using strategies to divide whole numbers Using standard algorithms to divide 	<p>ACTIVITIES (COURSES)</p> <p>Number structure: Whole numbers & decimals</p> <ul style="list-style-type: none"> Comparing Numbers Decimals from Words to Digits 1 <p>Operations: Rounding & estimation</p> <ul style="list-style-type: none"> Rounding Numbers Estimation: Multiply and Divide <p>Operations: Multiplication & division</p> <ul style="list-style-type: none"> Mental Methods Division1 Long Division 	<p>CHALLENGES</p> <p>Number & Algebra: Multiplication & Division LEVEL 5–7</p> <ul style="list-style-type: none"> True or false? (DOK 2) 	<p>(Y8-H) Decimal Fractions</p> <ul style="list-style-type: none"> Topic 6 (pp 2–4, 10–12) <p>(Y8-H) Whole Numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 14–17, 30–31)
<p>Week 4</p> <p>Order of operations Properties of triangles</p> <p>Use the order of operations Properties of triangles Calculate unknown interior angles of triangles</p>	<p>use the order of operations</p> <p>describe triangles, quadrilaterals, and other polygons in relation to their sides, diagonals, and angles</p> <p>reason about unknown angles in situations involving angles at a point, angles on a straight line, vertically opposite angles, and interior angles of triangles and quadrilaterals</p>	<p>SKILL QUESTS</p> <p>Order of operations</p> <ul style="list-style-type: none"> Using the order of operations <p>Shapes</p> <ul style="list-style-type: none"> Applying geometric reasoning in triangles 	<p>ACTIVITIES (COURSES)</p> <p>Operations: Order of Operations</p> <ul style="list-style-type: none"> Order of Operations 1 (BIDMAS) Identifying errors in applying the order of operations Order of Operations 2 <p>Shapes</p> <ul style="list-style-type: none"> Triangle Tasters <p>Angle properties</p> <ul style="list-style-type: none"> Angle Sum of a Triangle 	<p>CHALLENGES</p> <p>Geometry: 2D Shapes LEVEL 7–9</p> <ul style="list-style-type: none"> Angles in an isosceles triangle (DOK 2) <p>Number & Algebra: Operations LEVEL 6–8</p> <ul style="list-style-type: none"> Missing operators (DOK 2) 	<p>(Y7-G) Patterns and Algebra</p> <ul style="list-style-type: none"> Properties of arithmetic (pp 34, 35) <p>(Y7-G) Geometry</p> <ul style="list-style-type: none"> 2D shapes (pp 11–12) <p>(Y8-H) Angles and Polygons</p> <ul style="list-style-type: none"> Topic 3 (pp 14–17, 30–31) <p>(Y8-H) Polygons</p> <ul style="list-style-type: none"> Topic 12 (pp 19, 20)

Week overview	Teaching sequence statements	Online activities	Ebooks	
<p>Week 5</p> <p>Properties of quadrilaterals</p> <p>Properties of quadrilaterals Calculate unknown interior angles of quadrilaterals</p>	<p>describe triangles, quadrilaterals, and other polygons in relation to their sides, diagonals, and angles</p> <p>reason about unknown angles in situations involving angles at a point, angles on a straight line, vertically opposite angles, and interior angles of triangles and quadrilaterals</p>	<p>SKILL QUESTS</p> <p>Shapes</p> <ul style="list-style-type: none"> Applying geometric reasoning in quadrilaterals <p>ACTIVITIES (COURSES)</p> <p>Shapes</p> <ul style="list-style-type: none"> Properties of Quadrilaterals <p>Angle Properties</p> <ul style="list-style-type: none"> Quadrilaterals: Angle Sum with Equations 	<p>Y8-H Angles and Polygons</p> <ul style="list-style-type: none"> Topic 13 (pp 6–9) <p>Y8-H Polygons</p> <ul style="list-style-type: none"> Topic 12 (pp 21–24) 	
<p>Week 6</p> <p>Polygons</p> <p>Properties of polygons Calculate unknown angles or angle sums of polygons</p>	<p>describe triangles, quadrilaterals, and other polygons in relation to their sides, diagonals, and angles</p> <p>reason about unknown angles in situations involving angles at a point, angles on a straight line, vertically opposite angles, and interior angles of triangles and quadrilaterals</p>	<p>SKILL QUESTS</p> <p>Shapes</p> <ul style="list-style-type: none"> Applying geometric reasoning in quadrilaterals <p>ACTIVITIES (COURSES)</p> <p>Shapes</p> <ul style="list-style-type: none"> Plane Figure Terms Plane Figure Theorems <p>Angle Properties</p> <ul style="list-style-type: none"> Interior Angles 	<p>Y8-H Angles and Polygons</p> <ul style="list-style-type: none"> Topic 13 (pp 10–22) <p>Y7-G Geometry</p> <ul style="list-style-type: none"> 2D shapes (pp 7–10) 	
<p>Week 7</p> <p>Measure angle</p> <p>Angle relationships</p> <p>Estimate and measure angles Calculate unknown angles in situations</p>	<p>estimate and then measure length, area, volume, capacity, mass (weight), temperature, data storage, time, and angle, using appropriate units</p> <p>reason about unknown angles in situations involving angles at a point, angles on a straight line, vertically opposite angles, and interior angles of triangles and quadrilaterals</p>	<p>SKILL QUESTS</p> <p>Angle Properties</p> <ul style="list-style-type: none"> Introducing geometric reasoning in parallel lines Applying geometric reasoning in parallel lines <p>ACTIVITIES (COURSES)</p> <p>Angle Properties</p> <ul style="list-style-type: none"> Angles of Revolution: Value of x Vertically Opposite: Value of x Parallel Lines Introduction to Angles on Parallel Lines 1 Angles and Parallel Lines 	<p>CHALLENGES</p> <p>Geometry: Angles</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> Match that angle! (DOK 2) Identifying angle sizes in composite shapes (DOK 3) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> Angles in a revolution (DOK 2) Angles by design (DOK 4) Form and solve equations to find angles in parallel lines (DOK 2) Find missing angles when a triangle intersects a pair of parallel lines (DOK 2) Find angle created by overlapping shapes (DOK 2) Angles in triangles and parallel lines (DOK 2) 	<p>Y8-H Angles</p> <ul style="list-style-type: none"> Topic 10 (pp 2–31)
<p>Week 8</p> <p>Fraction review</p> <p>Compare and order fractions Equivalent fractions Simplify fractions Convert between improper fractions and mixed numbers</p>	<p>identify, read, write, and represent fractions, decimals, and percentages</p> <p>find equivalent fractions, simplify fractions, and convert between improper fractions and mixed numbers</p>	<p>SKILL QUESTS</p> <p>Equivalent fractions</p> <ul style="list-style-type: none"> Calculating equivalent fractions Simplifying fractions Converting between mixed & improper fractions <p>Compare & order rational numbers</p> <ul style="list-style-type: none"> Comparing & ordering fractions <p>ACTIVITIES (COURSES)</p> <p>Rational numbers: Fractions</p> <ul style="list-style-type: none"> Fraction Wall Labelling 2 Equivalent Fractions Simplifying Fractions Converting Mixed and Improper Comparing Fractions 2 Comparing Fractions with Signs Arranging Fractions 	<p>CHALLENGES</p> <p>Number & Algebra: Multiplication & Division</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> Many ants make light work (DOK 2) Orbiting lowest common multiples (DOK 2) 	<p>Y8-H Fractions</p> <ul style="list-style-type: none"> Topic 5 (pp 2–11, 14–15) <p>Y8-H Whole Numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 43–44)
<p>Week 9</p> <p>Add and subtract fractions</p> <p>Add and subtract fractions</p>	<p>add and subtract fractions with different denominators, using equivalent fractions</p>	<p>SKILL QUESTS</p> <p>Operations involving fractions</p> <ul style="list-style-type: none"> Adding & subtracting fractions Adding & subtracting fractions involving integers <p>ACTIVITIES (COURSES)</p> <p>Rational numbers: Fractions</p> <ul style="list-style-type: none"> Subtract Mixed Numbers: Renaming Add Unlike Mixed Numbers Subtract Unlike Mixed Numbers Mixed Numerals More Fraction Problems 	<p>CHALLENGES</p> <p>Number & Algebra: Fractions</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> What fraction is Lewis thinking of? (DOK 2) Calling out fractions (DOK 2) 	<p>Y8-H Fractions</p> <ul style="list-style-type: none"> Topic 5 (pp 16–21)

Week overview	Teaching sequence statements	Online activities	Ebooks
<p>Week 1</p> <p>Multiply fractions Decimal review</p> <p>Multiply fractions and decimals by whole numbers Compare and order decimals</p>	<p>multiply fractions and decimals by whole numbers identify, read, write, and represent fractions, decimals, and percentages</p>	<p>SKILL QUESTS</p> <p>Operations involving fractions</p> <ul style="list-style-type: none"> Multiplying fractions by whole numbers <p>Compare & order rational numbers</p> <ul style="list-style-type: none"> Ordering & comparing decimals <p>ACTIVITIES (COURSES)</p> <p>Rational numbers: Decimals</p> <ul style="list-style-type: none"> Comparing Decimals Decimal Order 	<p>(7-5) Fractions, Decimals & Percentages</p> <ul style="list-style-type: none"> Fractions of an amount (pp 21–23) Calculating (pp 31, 32) Decimal fractions (p 14) <p>(7-8) Fractions</p> <ul style="list-style-type: none"> Topic 5 (pp 29–37) <p>(7-8) Decimal Fractions</p> <ul style="list-style-type: none"> Topic 6 (pp. 8–9)
<p>Week 2</p> <p>Rounding Add and subtract decimals</p> <p>Round whole numbers and decimals Use rounding to estimate Add and subtract decimals</p>	<p>round whole numbers to any specified power of 10, and round decimals to the nearest tenth, hundredth, thousandth, or whole number use rounding, estimation, and benchmarks to predict results and to check the reasonableness of calculation add, subtract, and multiply decimals, with an emphasis on estimating before calculating</p>	<p>SKILL QUESTS</p> <p>Rounding & estimation</p> <ul style="list-style-type: none"> Rounding decimals to thousandth Using rounding & estimation <p>Operations involving decimals</p> <ul style="list-style-type: none"> Adding & subtracting decimals <p>ACTIVITIES (COURSES)</p> <p>Operations: Rounding & estimation</p> <ul style="list-style-type: none"> Rounding Decimals 2 <p>Rational numbers: Decimals</p> <ul style="list-style-type: none"> Estimate Decimal Sums 1 Estimate Decimal Differences 1 Estimate Decimal Sums 2 Estimate Decimal Differences 2 Adding and Subtracting 	<p>(7-8) Decimal Fractions</p> <ul style="list-style-type: none"> Topic 6 (pp 5–7, 21–23)
<p>Week 3</p> <p>Multiply and divide decimals</p> <p>Multiply and divide decimals by powers of 10 and whole numbers Multiply decimals by decimals</p>	<p>multiply and divide numbers by powers of 10 multiply fractions and decimals by whole numbers add, subtract, and multiply decimals, with an emphasis on estimating before calculating</p>	<p>SKILL QUESTS</p> <p>Operations involving Decimals</p> <ul style="list-style-type: none"> Multiplying decimals by 10, 100, & 1000 Dividing decimals by 10, 100, & 1000 Multiplying decimals <p>ACTIVITIES (COURSES)</p> <p>Rational numbers: Decimals</p> <ul style="list-style-type: none"> Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000 Multiply Decimal by Whole Multiply Decimals 1 Multiply Decimals: Area Model <p>CHALLENGES</p> <p>Number & Algebra: Money LEVEL 7–9</p> <ul style="list-style-type: none"> Exchange rates (DOK 3) 	<p>(7-8) Decimal Fractions</p> <ul style="list-style-type: none"> Topic 6 (pp 24–27, 33–36)
<p>Week 4</p> <p>Percentage review FDP Conversion</p> <p>Identify and explain percentages Compare, order, and convert between fractions, decimals, and percentages</p>	<p>identify, read, write, and represent fractions, decimals, and percentages compare, order, and convert between fractions, decimals, and percentages</p>	<p>SKILL QUESTS</p> <p>Compare & order rational numbers</p> <ul style="list-style-type: none"> Comparing & ordering percentages <p>Convert rational numbers</p> <ul style="list-style-type: none"> Converting fractions to decimals Converting fractions to percentages Converting decimals to fractions Converting decimals to percentages Converting percentages to decimals Converting fractions, decimals & percentages <p>Compare & order rational numbers</p> <ul style="list-style-type: none"> Ordering fractions, decimals & percentages <p>ACTIVITIES (COURSES)</p> <p>Rational numbers: Decimals</p> <ul style="list-style-type: none"> Fractions to Decimals 2 <p>Rational number: Percentages</p> <ul style="list-style-type: none"> Mixed Numerals to Percentages Percentages greater than 100% Decimals to percentages Percentages to Decimals <p>CHALLENGES</p> <p>Number & Algebra: Fractions LEVEL 6–8</p> <ul style="list-style-type: none"> A questionable sentence (DOK 2) 	<p>(7-8) Percentage Basics</p> <ul style="list-style-type: none"> Topic 7 (pp 2–12, 17–19) <p>(7-8) Decimal Fractions</p> <ul style="list-style-type: none"> Topic 6 (pp 13–20, 28–32)

Week overview	Teaching sequence statements	Online activities	Ebooks
<p>Week 5</p> <p>Find a percentage of a whole number Find a whole amount</p> <p>Find a percentage of a whole number Find a whole amount, given a simple fraction or percentage</p>	<p>find a percentage of a whole number, and find a whole amount, given a simple fraction or percentage (e.g., “75% is \$45, what is the total amount?”)</p>	<p>SKILL QUESTS</p> <p>Calculate a percentage of a quantity</p> <ul style="list-style-type: none"> Calculating a fraction of a quantity Calculating a percentage of a quantity Comparing quantities in percentages <p>ACTIVITIES (COURSES)</p> <p>Rational number: Percentages</p> <ul style="list-style-type: none"> Percentages of an amount using fractions (<100%) Percentages of a quantity (>100%) Percentages of an amount using Decimals (calculator) Percentage Word Problems <p>Financial maths</p> <ul style="list-style-type: none"> Commission <p>CHALLENGES</p> <p>Number & Algebra: Percentages</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> The face of percentages (DOK 2) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> Orange morning smoothie (DOK 2) Toby’s trick (DOK 3) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Trampoline teaser (DOK 3) 	<p>(Y7-G) Fractions, Decimals & Percentages</p> <ul style="list-style-type: none"> Fractions of an amount (p 24) <p>(Y8-H) Percentage Basics</p> <ul style="list-style-type: none"> Topic 7 (pp 13–16, 21–26) <p>(Y8-H) Fractions</p> <ul style="list-style-type: none"> Topic 5 (p 32)
<p>Week 6</p> <p>Proportional reasoning</p> <p>Share with unequal proportions</p>	<p>use proportional reasoning to share with unequal proportions (e.g., “We have 100 stickers to share. For every 1 sticker I get, you get 3. How many do we each get?”)</p>	<p>SKILL QUESTS</p> <p>Proportional reasoning</p> <ul style="list-style-type: none"> Using proportional reasoning <p>CHALLENGES</p> <p>Number & Algebra: Rates & Ratios</p> <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Running club memberships (DOK 2) Rectangle dimension ratios (DOK 2) <p>Number & Algebra: Money</p> <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Saving friends (DOK 3) <p>Geometry: Geometric Proofs</p> <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Blue and white ratios (DOK 3) 	<p>(Y8-H) The Number Plane</p> <ul style="list-style-type: none"> Topic 2 (p 1)
<p>Week 7</p> <p>Money and plans Applications of percentages</p> <p>Create and compare weekly, monthly, and yearly finance plans Calculate and apply percentage discounts</p>	<p>create and compare weekly, monthly, and yearly finance plans (e.g., saving plans, phone plans, budgets, and ‘buy now, pay later’ services) apply percentage discounts</p>	<p>SKILL QUESTS</p> <p>Financial maths</p> <ul style="list-style-type: none"> Understanding hire purchase Calculating percentage discounts Calculating taxation: GST <p>ACTIVITIES (COURSES)</p> <p>Financial maths</p> <ul style="list-style-type: none"> Wages and Salaries Working Overtime Net Pay Budgeting Profit and Loss Successive Discounts <p>CHALLENGES</p> <p>Number & Algebra: Money</p> <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Positive or negative equity (DOK 3) <p>Number & Algebra: Percentages</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> Increasing and decreasing by 33 1/3% (DOK 2) 	<p>(Y7-G) Fractions, Decimals & Percentages</p> <ul style="list-style-type: none"> Fractions of an amount (pp 25–27) Calculating (pp 28–35)
<p>Week 8</p> <p>Plan and conduct probability experiments</p> <p>Plan and conduct probability experiments Represent outcomes using lists, tables, tally charts, words, tree diagrams and diagrams</p>	<p>plan and conduct probability experiments for chance-based situations, including undertaking a large number of trials using digital tools ...</p>	<p>SKILL QUESTS</p> <p>Probability investigations</p> <ul style="list-style-type: none"> Understanding the language of probability Understanding theoretical probability Understanding experimental probability <p>ACTIVITIES (COURSES)</p> <p>Probability investigations</p> <ul style="list-style-type: none"> Probability Tables Complementary Events 	<p>(Y8-H) Chance</p> <ul style="list-style-type: none"> Topic 8 (pp 2–11, 12–17)
<p>Week 9</p> <p>Present and analyse the results of probability experiments Critical analysis of chance-based investigation and data</p> <p>Create and describe data visualisations Calculate the probability of outcomes Analyse others’ conclusions Identify misconceptions</p>	<p>plan and conduct probability experiments for chance-based situations, including undertaking a large number of trials using digital tools ... identify, explain, and check others’ statements about chance-based investigations, referring to evidence</p>	<p>SKILL QUESTS</p> <p>Probability investigations</p> <ul style="list-style-type: none"> Using frac/dec & percentages in probability <p>ACTIVITIES (COURSES)</p> <p>Probability investigations</p> <ul style="list-style-type: none"> Two-way Table Probability Venn Diagrams <p>CHALLENGES</p> <p>Chance & Probability</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> The dice with 20 faces (DOK 2) Probability spinner between 10 and 20 (DOK 2) Probable outcomes when rolling the dice (DOK 3) Summative spinning (DOK 3) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> Marble game (DOK 4) Dice probability problems (DOK 2) Deck of cards distribution (DOK 2) 	<p>(Y8-H) Chance</p> <ul style="list-style-type: none"> Topic 8 (pp 12–23, 26–35)

Week overview	Teaching sequence statements	Online activities	Ebooks		
<p>Week 1 & 2</p> <p>Integer review Add integers Subtract integers</p> <p>Order and compare integers Add integers Subtract integers</p>	<p>order, compare, add, and subtract integers</p>	<p>SKILL QUESTS</p> <p>Integers</p> <ul style="list-style-type: none"> Ordering & comparing integers Investigating the use of integers in real-life <p>Operations</p> <ul style="list-style-type: none"> Adding & subtracting integers 	<p>ACTIVITIES (COURSES)</p> <p>Operations: Integers</p> <ul style="list-style-type: none"> Comparing Integers (<, =, >) Integers: Subtraction Integers: Add and Subtract More with Integers 	<p>CHALLENGES</p> <p>Number & Algebra: Operations LEVEL 6–8</p> <ul style="list-style-type: none"> Calculating with consecutive numbers (DOK2) <p>Number & Algebra: Addition & Subtraction LEVEL 6–8</p> <ul style="list-style-type: none"> Magic 4 × 4 decimal number square (DOK2) Magic 3 × 3 decimal number square (DOK2) Magic square with positive and negative decimals (DOK2) Integer number sentences (DOK3) 	<p>(Y8-H) Directed Numbers</p> <ul style="list-style-type: none"> Topic 4 (pp 2–13, 14–24) <p>(Y8-H) Whole Numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 18–23)
<p>Week 3</p> <p>Simplify algebraic expressions</p> <p>Simplify algebraic expressions</p>	<p>simplify algebraic expressions involving sums, products, differences, and single brackets (e.g., using the distributive property, $2(x + 3) + 1 = 2x + 6 + 1 = 2x + 7$)</p>	<p>SKILL QUESTS</p> <p>Simplify algebraic expressions</p> <ul style="list-style-type: none"> Simplifying algebraic expressions 	<p>ACTIVITIES (COURSES)</p> <p>Simplify algebraic expressions</p> <ul style="list-style-type: none"> Like Terms: Add and Subtract Using the Distributive Property Expanding Brackets 	<p>CHALLENGES</p> <p>Number & Algebra: Equations & Expressions LEVEL 6–8</p> <ul style="list-style-type: none"> Algebra decoded (DOK2) Shaping up expressions (DOK2) 	<p>(Y8-H) Algebra Basics</p> <ul style="list-style-type: none"> Topic 1 (pp 4–17) <p>(Y8-H) Whole Numbers</p> <ul style="list-style-type: none"> Topic 3 (pp 24–29)
<p>Week 4</p> <p>Form and solve 1- or 2-step linear equations</p> <p>Form and solve 1- or 2-step linear equations</p>	<p>form and solve one- or two-step linear equations (e.g., $5s + 3 = 18$)</p>	<p>SKILL QUESTS</p> <p>Linear equations</p> <ul style="list-style-type: none"> Forming linear equations Solving 1-step linear equations Solving 2-step linear equations 	<p>ACTIVITIES (COURSES)</p> <p>Linear equations, patterns & relationships</p> <ul style="list-style-type: none"> I am Thinking of a Number Writing Equations Find the Missing Number 2 Missing Values: Decimals Solving Simple Equations 	<p>CHALLENGES</p> <p>Number & Algebra: Equations & Expressions LEVEL 6–8</p> <ul style="list-style-type: none"> Insect escape books (DOK3) Two steps to find x (DOK2) Creating and solving two-step problems (DOK2) Creating equations that solve $x = 1$ (DOK4) Exploring two-step equations (DOK2) <p>Number & Algebra: Multiplication & Division LEVEL 6–8</p> <ul style="list-style-type: none"> Easy as a, b and c (DOK2) 	<p>(Y8-H) Patterns and Algebra</p> <ul style="list-style-type: none"> Solving equations (pp 29–31)

Week overview	Teaching sequence statements	Online activities	Ebooks		
<p>Week 5</p> <p>Substitution Linear patterns</p> <p>Find the value of an expression or formula given the values of variables Identify linear patterns</p>	<p>find the value of an expression or formula, given the values of variables</p> <p>determine if a pattern is linear and, if it is, write the equation for the pattern and use the equation to make conjectures</p>	<p>SKILL QUESTS</p> <p>Substitution of values</p> <ul style="list-style-type: none"> Using substitution to solve/check answers <p>Linear patterns & relationships</p> <ul style="list-style-type: none"> Identifying linear patterns 	<p>ACTIVITIES (COURSES)</p> <p>Substitution of Values</p> <ul style="list-style-type: none"> Simple Substitution 3 More Substitution in Formulae Real Formulae 	<p>CHALLENGES</p> <p>Number & Algebra: Multiplication & Division LEVEL 7–9</p> <ul style="list-style-type: none"> Finding a, b, c and d (DOK 2) <p>Number & Algebra: Equations & Expressions LEVEL 7–9</p> <ul style="list-style-type: none"> Mr Trap gets a new suit (DOK 2) Equating Fahrenheit to Celsius (DOK 2) Fragmenting formulas: Volume of a cylinder (DOK 3) <p>Number & Algebra: Indices LEVEL 7–9</p> <ul style="list-style-type: none"> Terms and conditions (DOK 2) 	<p>(Y8-H) Algebra Basics</p> <ul style="list-style-type: none"> Topic 1 (pp 18–22) <p>(Y8-H) The Number Plane</p> <ul style="list-style-type: none"> Topic 2 (pp 9–12)
<p>Week 6</p> <p>Linear patterns and rules</p> <p>Determine the rule of linear patterns</p>	<p>determine if a pattern is linear and, if it is, write the equation for the pattern and use the equation to make conjectures</p>	<p>SKILL QUESTS</p> <p>Linear patterns & relationships</p> <ul style="list-style-type: none"> Using graphs to describe linear patterns Deriving the linear equation of a pattern Comparing graphs of linear equations 	<p>ACTIVITIES (COURSES)</p> <p>Linear equations, patterns & relationships</p> <ul style="list-style-type: none"> Pattern Rules and Tables Find the Pattern Rule 	<p>CHALLENGES</p> <p>Number & Algebra: Equations & Expressions LEVEL 7–9</p> <ul style="list-style-type: none"> Plot the parallel line (DOK 2) Gradient of a line intersecting with others at the same point (DOK 2) Gradient of the line from x and y intercepts (DOK 2) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Patterns, posts and patterns (DOK 3) 	<p>(Y8-H) Algebra Basics</p> <ul style="list-style-type: none"> Topic 1 (pp 23–25) <p>(Y8-H) The Number Plane</p> <ul style="list-style-type: none"> Topic 2 (pp 13–24, 26–29) <p>(Y7-G) Patterns and Algebra</p> <ul style="list-style-type: none"> Patterns and function (pp 14–17)
<p>Week 7</p> <p>Algorithms</p> <p>Create and use algorithms</p>	<p>create, test, revise, and use algorithms to identify, interpret, and explain patterns</p>			<p>(Y8-H) Algebra Basics</p> <ul style="list-style-type: none"> Topic 1 (pp 26–34) 	
<p>Week 8</p> <p>Estimate and measure Convert units of measurement Area of triangles and rectangles review</p>	<p>estimate and then measure length, area, volume, capacity, mass (weight), temperature, data storage, time, and angle, using appropriate units</p> <p>select and use an appropriate base measure within the metric system, along with a prefix to show the size of units</p> <p>convert between metric measurement units, including square units</p> <p>calculate the volume of triangular prisms and shapes composed of rectangular prisms</p>	<p>SKILL QUESTS</p> <p>Skill Quest: Measuring</p> <ul style="list-style-type: none"> Ordering units of measurement Measuring volume Measuring capacity <p>Unit conversion</p> <ul style="list-style-type: none"> Converting between units of area Converting between metric units: Capacity/volume 	<p>ACTIVITIES (COURSES)</p> <p>Measurement: Converting</p> <ul style="list-style-type: none"> Converting cm and mm Metres and Kilometres Converting Units of Length Floor Plans Converting Units of Area Millilitres and Litres Converting Volume Grams and Kilograms Converting Units of Mass 	<p>(Y8-H) Converting Units</p> <ul style="list-style-type: none"> Topic 17 (pp 2–19) 	
<p>Week 9</p> <p>Volume</p> <p>Volume of triangular prisms and shapes composed of rectangular prisms</p>	<p>calculate the volume of triangular prisms and shapes composed of rectangular prisms</p>	<p>SKILL QUESTS</p> <p>Perimeter, area & volume</p> <ul style="list-style-type: none"> Applying formula of volume of rectangular prism Applying formula of volume of triangular prism 	<p>ACTIVITIES (COURSES)</p> <p>Perimeter, area & volume</p> <ul style="list-style-type: none"> Volume: Rectangular Prisms 1 Volume: Rectangular Prisms 2 Volume: Prisms 	<p>CHALLENGES</p> <p>Number & Algebra: Equations & Expressions LEVEL 7–9</p> <ul style="list-style-type: none"> Walling off volume (DOK 3) A proportion of silver! (DOK 3) Prisms within prisms (DOK 2) containers of water (DOK 2) Volume of composite shapes (DOK 2) James doubles everything (DOK 3) Model wooden prisms (DOK 2) What are the dimensions? (DOK 2) Washed up dimensions (DOK 3) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> Cabin and container dimensions (DOK 2) 	<p>(Y8-H) Solids</p> <ul style="list-style-type: none"> Topic 14 (pp 2–15)

Week overview	Teaching sequence statements	Online activities	Ebooks		
<p>Week 1</p> <p>Investigate a problem Plan an investigation Collect data</p> <p>Investigative a problem about a local community matter Plan data-collection and survey questions Explain the variables in secondary data sets Collect or source data</p>	<p>investigate, using multivariate datasets, summary, comparison, time-series, and relationship situations ...</p> <p>plan how to collect or source data to answer the investigative question ...</p> <p>collect or source data, including:</p> <ul style="list-style-type: none"> – checking for errors and following up and correcting them when possible – creating an informal data dictionary with information that will help others know about the context 	<p>SKILL QUESTS</p> <p>Statistics: Plan</p> <ul style="list-style-type: none"> • Planning for statistical investigations <p>Statistics: Data</p> <ul style="list-style-type: none"> • Interpreting secondary data 	<p>ACTIVITIES (COURSES)</p> <p>Substitution of Values</p> <ul style="list-style-type: none"> • Methods of Data Sampling • Data sampling 	<p>Y8-H Data for Statistics</p> <ul style="list-style-type: none"> • Topic 18 (pp 2–4, 29–33) 	
<p>Week 2</p> <p>Analyse data 1</p> <p>Compare visualisations of the same variable(s)</p>	<p>create data visualisations for the investigation, using multiple visualisations to provide different views of the data</p> <p>make statements about the data, including its features and context, in descriptions of distributions</p>	<p>SKILL QUESTS</p> <p>Statistics: Analysis</p> <ul style="list-style-type: none"> • Interpreting stem & leaf plots • Interpreting line graphs • Interpreting 2-way tables • Interpreting scatter plot 	<p>ACTIVITIES (COURSES)</p> <p>Statistics: Data and Data samples</p> <ul style="list-style-type: none"> • Dot Plots • Stem and Leaf Plots: Concept • Double Stem and Leaf Plots 	<p>CHALLENGES</p> <p>Statistics & Data</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> • Mystery values on a stem-and-leaf plot (DOK 2) • Running times (DOK 2) • Mean and median of class test scores (DOK 2) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> • Missing values in a 2-way table (DOK 2) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> • Passenger spotting (DOK 2) • Next steps (DOK 2) 	
<p>Week 3</p> <p>Analyse data 2</p> <p>Calculate measures of centre and spread Describe distributional shape and long-term trends</p>	<p>create data visualisations for the investigation, using multiple visualisations to provide different views of the data</p> <p>make statements about the data, including its features and context, in descriptions of distributions</p>	<p>SKILL QUESTS</p> <p>Statistics: Analysis</p> <ul style="list-style-type: none"> • Calculating the central tendency & spread • Applying central tendency & spread • Interpreting data in various displays 	<p>ACTIVITIES (COURSES)</p> <p>Statistics: Data and Data samples</p> <ul style="list-style-type: none"> • Mean • Median • Mode • Data Extremes and Range • Median from Stem and Leaf Plot • Mode from Stem and Leaf Plot • Stem and Leaf Plots with Range • Grouping data and model class/Grouped frequency (US) • Correlation 	<p>CHALLENGES</p> <p>Statistics & Data</p> <p>LEVEL 6–8</p> <ul style="list-style-type: none"> • Improving the mean points scored (DOK 2) • Identify three values given their mean and difference (DOK 2) • Find the fractional data set (DOK 2) • Making a mixed number data set (DOK 2) • What could the five values be? (DOK 3) • The missing mixed number (DOK 2) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> • Mistakes analysis (DOK 3) 	<p>Y8-H Data for Statistics</p> <ul style="list-style-type: none"> • Topic 18 (pp 5–25)
<p>Week 4</p> <p>Communicate findings Critically analyse other investigations</p> <p>Compare findings to initial predictions Analyse others' statistical investigations</p>	<p>communicate findings in context to answer the investigative question, using evidence from analysis, considering possible explanations for findings, and comparing findings to initial conjectures or assertions and their existing knowledge of the world</p> <p>evaluate the data-collection methods, data visualisations, and findings of others' statistical investigations to see if their claims are reasonable</p>	<p>SKILL QUESTS</p> <p>Statistics: Conclusion</p> <ul style="list-style-type: none"> • Drawing conclusions to answer the investigation 	<p>ACTIVITIES (COURSES)</p> <p>Statistics: Data and Data samples</p> <ul style="list-style-type: none"> • Which Measure of Central Tendency? 	<p>Y8-H Data for Statistics</p> <ul style="list-style-type: none"> • Topic 18 (pp 26–28) <p>Y7-G Data Representation</p> <ul style="list-style-type: none"> • Collecting and analysing data (pp 29–33) 	

Week overview	Teaching sequence statements	Online activities	Ebooks
<p>Week 5</p> <p>Estimate and measure time Timetables, charts and duration Distance, speed, time</p> <p>Estimate and measure time Interpret timetables and charts Convert between units of time Calculate speed, distance and time</p>	<p>estimate and then measure length, area, volume, capacity, mass (weight), temperature, data storage, time, and angle, using appropriate units</p> <p>read, interpret, and use timetables, charts, and results that present information about duration</p> <p>convert times to a common unit, such as seconds or minutes, and use decimal units of time (milliseconds)</p> <p>find distance, given speed and time; or time, given distance and speed</p>	<p>SKILL QUESTS</p> <p>Time: Interpretation</p> <ul style="list-style-type: none"> Reading scales & timetables to solve problems Solving problems involving different time zones <p>Time: Conversion</p> <ul style="list-style-type: none"> Converting between units of time in decimals <p>Rate: Speed</p> <ul style="list-style-type: none"> Finding distance travelled <p>ACTIVITIES (COURSES)</p> <p>Speed, distance & time</p> <ul style="list-style-type: none"> Time Zones Using Timetables Time Conversions: Simple Hours and Minutes Average Speed Distance Travelled Time Taken <p>CHALLENGES</p> <p>Number & Algebra: Rates & Ratios LEVEL 6–8</p> <ul style="list-style-type: none"> Speedy snails (DOK3) Making a bee line for flowers (DOK2) Racing car speeds (DOK2) <p>LEVEL 7–9</p> <ul style="list-style-type: none"> Vintage motorcycle journey (DOK2) Journeys within a building (DOK2) Cruise ship island journey (DOK2) Jimmy the rabbit's journey (DOK2) 	<p>(Y8-H) Time Calculations</p> <ul style="list-style-type: none"> Topic 11 (pp 2–19, 20–29) <p>(Y7-G) Length, Perimeter and Area</p> <ul style="list-style-type: none"> Scale and distance (p 32) <p>(Y7-G) Data Representation</p> <ul style="list-style-type: none"> Types of graphs (pp 18–19)
<p>Week 6</p> <p>Maps</p> <p>Communicate routes using actual distances</p>	<p>use map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems</p>	<p>SKILL QUESTS</p> <p>Pathways</p> <ul style="list-style-type: none"> Communicating pathways on grid reference Using the Cartesian coordinate system for position Using scale drawings on maps <p>ACTIVITIES (COURSES)</p> <p>Spatial reasoning: Transformation & pathways</p> <ul style="list-style-type: none"> Scale <p>CHALLENGES</p> <p>Number & Algebra: Equations & Expressions LEVEL 7–9</p> <ul style="list-style-type: none"> Possible treasure locations (DOK2) Where could the treasure be buried? (DOK2) 	<p>(Y7-G) Length, Perimeter and Area</p> <ul style="list-style-type: none"> Scale and distance (pp 26–29) <p>(Y7-G) Position</p> <ul style="list-style-type: none"> Maps and scale (pp 13–16)
<p>Week 7</p> <p>Compass bearings</p> <p>Communicate positions and pathways using compass points with angles</p>	<p>use map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems</p>	<p>SKILL QUESTS</p> <p>Pathways</p> <ul style="list-style-type: none"> Using compass points in directions <p>ACTIVITIES (COURSES)</p> <p>Number structure: Whole number & place value</p> <ul style="list-style-type: none"> More Directions! <p>CHALLENGES</p> <p>Number & Algebra: Patterns LEVEL 6–8</p> <ul style="list-style-type: none"> Finding the midpoint (DOK2) <p>LEVEL 8–10</p> <ul style="list-style-type: none"> A landmark to locate (DOK3) 	<p>(Y7-G) Position</p> <ul style="list-style-type: none"> Spatial orientation (pp 3–5) <p>(Y8-H) The Number Plane</p> <ul style="list-style-type: none"> Topic 2 (pp 25, 26)
<p>Week 8</p> <p>Nets Transformation of 2D shapes 1</p> <p>Nets of prisms Properties of 2D shapes under translations, reflections and rotations</p>	<p>visualise and draw nets for prisms with a fixed cross section</p> <p>recognise the invariant properties of 2D and 3D shapes under different transformations</p>	<p>SKILL QUESTS</p> <p>Spatial reasoning: Nets</p> <ul style="list-style-type: none"> Identifying cross-sections of prisms Connecting prisms to their nets Connecting 3D objects to their nets <p>Spatial reasoning: Transformation</p> <ul style="list-style-type: none"> Performing translations Performing reflections Performing rotations Understanding line & rotational symmetry <p>ACTIVITIES (COURSES)</p> <p>Spatial reasoning: Nets</p> <ul style="list-style-type: none"> What Prism am I? Collect the Objects 2 Nets <p>Spatial reasoning: Transformation & pathways</p> <ul style="list-style-type: none"> Vertical and horizontal shift Transformation: Coordinate Plane Rotations: Coordinate Plane <p>CHALLENGES</p> <p>Measurement: Volume & Capacity LEVEL 6–8</p> <ul style="list-style-type: none"> The missing dimension (DOK3) 	<p>(Y7-G) Geometry</p> <ul style="list-style-type: none"> 3D shapes (pp 25–32) <p>(Y8-H) Polygons</p> <ul style="list-style-type: none"> Topic 12 (pp 2–18, 25–30)
<p>Week 9</p> <p>Transformation of 2D shapes 2 Transformation of 3D shapes</p> <p>Properties of 2D shapes under enlargements and combination of transformations Properties of 3D shapes under different transformations</p>	<p>recognise the invariant properties of 2D and 3D shapes under different transformations</p>	<p>SKILL QUESTS</p> <p>Spatial reasoning – Transformation</p> <ul style="list-style-type: none"> Performing enlargements & identify scale factors Using a combination of transformations Recognising invariant properties <p>CHALLENGES</p> <p>Geometry: Symmetry, Transformation & Location LEVEL 7–9</p> <ul style="list-style-type: none"> Transformation talk (DOK3) 	<p>(Y8-H) Solids</p> <ul style="list-style-type: none"> Topic 14 (pp 16–23)