Ministry-funded Y0-Y8 Maths Resource Curriculum Alignment Guide

The purpose of this guide is to enable schools to use existing Ministry-funded Maths resources with the updated Mathematics and Statistics learning area (October 2025). The guide identifies the Strands, Elements and Practices in the updated Maths and Statistics learning area and shows the location of this learning in existing print and digital resources.

Learning Level	**Phase 3 - Years 7-8**
Supplier	**Oxford University Press**

Year 7

Strand	Element	Practices The skills, strategies, and applications to teach	Relevant teacher and student resources in *Mathematics and Statistics for Aotearoa New Zealand*
NOTE TO TEACHERS: Click the hyperlink for each Unit and Topic below to go to Oxford Digital, then select 'Topic resources' in right menu for detailed alignment information and access to all online resources.			
Number	**Number structures (and operations)**	Reading, writing comparing, and ordering whole numbers using powers of 10 (e.g. $10{,}000 = 10^4, 1000 < 10^4$)	**Unit 1 Number structure Topic 1 Whole Numbers,** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Whole Numbers*) • Diagnostic assessment (*Pre-test: Whole Numbers*) • Formative assessment (*Post-test: Whole Numbers*) • Rich task (*Mastery task 1: Who likes ice cream?*) **Year 7 Student Workbook resources** • Guided practice p. 2 • Independent practice pp. 3–4 • Extended practice p. 5 **Year 7 Printable student resources** • Estimating using a number line (*Activity Sheet: Million-Dollar price tags*)
		Finding the highest common factor (HCF) of two numbers under 100, and finding the least common multiple (LCM) of two numbers under 10	**Unit 1 Number structure Topic 3 Prime numbers, factors and multiples** **Year 7 Teacher resources** • Lesson plan (Sessions 3 and 4) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Prime Numbers, factors and* • Formative assessment (*Post-test: Prime numbers, factors and multiples*) **Year 7 Student Workbook resources** • Independent practice p. 12 • Extended practice p. 13 **Year 7 Printable student resources** • Prime factors (*Activity sheet: Multiple family factors*)

Number	**Number structures (and operations)**	Using exponents and identifying square roots for square numbers up to at least 144	**Unit 1 Number structure Topic 2 Square numbers and square roots** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Square numbers and square roots*) • Diagnostic assessment (*Pre-test: Square numbers and square roots*) • Formative assessment (*Post-test: Square numbers and square roots*) **Year 7 Student Workbook resources** • Guided practice p. 6 • Independent practice pp. 7–8 • Extended practice p. 9 **Year 7 Printable student resources** • Finding square numbers in context and estimating square roots of imperfect square numbers (*Activity sheet: Square and root numbers*)
		Using rounding and estimation to predict results and to check the reasonableness of calculations (e.g. 0.73 + 0.8 + 0.999 must be less than 3 since each are close to but less than 1)	**Unit 2 Operations Topic 1 Calculations involving rounding and estimation** **Year 8 Teacher resources** • Lesson plan (Session 3) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Calculations involving rounding and estimation*) • Formative assessment (*Post-test: Calculations involving rounding and estimation*) **Year 8 Student Workbook resources** • Guided practice p. 19 (Q. 1)
		Rounding whole numbers to any specified power of 10, and rounding decimals to the nearest whole number, tenth, or hundredth	**Unit 1 Number structure Topic 1 Whole numbers and decimals** **Year 8 Teacher resources** • Lesson plan (Session 2) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Whole numbers and decimals*) • Formative assessment (*Post-test: Whole numbers and decimals*) **Year 8 Student Workbook resources** • Extended practice p. 4 (Q. 6) **Year 8 Printable student resources** • Rounding to the nearest ten and hundred thousand (*Mastery task 3: Lest we forget*) • Rounding to decimal places (*Mastery task 1: Aotearoa New Zealand*)
		Using divisibility rules to identify numbers that are divisible by 2, 3, 4, 5, 6, 8, 9, and 10	**Unit 2 Operations Topic 7 Multiplication facts and divisibility** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Multiplication facts and divisibility*) • Formative assessment (*Post-test: Multiplication facts and divisibility*) **Year 7 Student Workbook resources** • Guided practice p. 40 • Independent practice pp. 41–42 • Extended practice p. 43 **Year 7 Printable student resources** • Recognising prime and composite number via factors (*Activity sheet: Becoming a Maths Whizz*)

Number	**Number structures (and operations)**	Multiplying whole numbers	**Unit 2 Operations Topic 5 Written computation with multiplication** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (*Interactive: Written computation with multiplication* • Diagnostic assessment (*Pre-test: Written computation with multiplication*) • Formative assessment (*Post-test: Written computation with multiplication*) **Year 7 Student Workbook resources** • Guided practice p. 32 • Independent practice pp. 33–34 • Extended practice p. 35 **Year 7 Printable student resources** • Solving multiplication problems in a cross number (*Activity sheet: Cross times*)
		Dividing whole numbers by one- or two-digit divisors (e.g. 327 ÷ 5 = 65.4 or 65 2/5)	**Unit 2 Operations Topic 6 Written computation with division** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce concept (*Interactive: Interactive number line*) • Diagnostic assessment (*Pre-test: Written computation with division*) • Formative assessment (*Post-test: Written computation with division*) **Year 7 Student Workbook resources** • Guided practice p. 36 • Independent practice pp. 37–38 • Extended practice p. 39 **Year 7 Printable student resources** • Dividing by 2 digits using long division **(***Activity sheet: Long division*)
		Evaluating expressions using the order of operations	**Unit 2 Operations Topic 8 Order of operations** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce concept (*Interactive: Order of operations*) • Diagnostic assessment (*Pre-test: Order of operations*) • Formative assessment (*Post-test: Order of operations*) • Activity sheet: Take my order **Year 7 Student Workbook resources** • Guided practice p. 44 • Independent practice pp. 45–46 • Extended practice p. 47 **Year 7 Printable student resources** • Make a number using cards in as many ways as possible (*Activity sheet: Take my order*)
		Locating integers on a number line	**Unit 2 Operations Topic 9 Integers** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 1 supporting LBM • Introduce concept (*Interactive: Integers*) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) **Year 7 Student Workbook resources** • Guided practice p. 48 (Q. 1–2)

Number	**Number structures (and operations)**	Ordering whole negative and positive numbers using a number line	**Unit 2 Operations Topic 5 Integers** **Year 8 Teacher resources** • Lesson plan (Session 2) **Year 8 Student Workbook resources** • Guided questions (Q. 3–4) • Independent practice p. 44 (Q. 4) **Year 8 Printable student resources** • Extension task on weather extremes in NZ (*Mastery task 4: Our land of contrasts*)
		Representing addition and subtraction of integers using a number line	**Unit 2 Operations Topic 9 Integers** **Year 7 Teacher resources** • Lesson plan (Sessions 2–4) with 1 supporting BLM • Introduce concept (*Interactive: Integers*) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) **Year 7 Student Workbook resources** • Independent practice pp. 49–50 (Q. 1–3) • Extended practice p. 51 **Year 7 Printable student resources** • Working out balances on accounts (*Activity sheet: Borrowing from the bank*)
		Identifying, reading, writing, and representing fractions, decimals, and percentages	**Unit 3 Rational numbers Topic 1 Fractions** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) • Introduce concept (*Interactive: Fractions*) • Diagnostic assessment (*Pre-test: Fractions*) • Formative assessment (*Post-test: Fractions*) **Year 7 Student Workbook resources** • Guided practice p. 52 **Unit 3 Rational numbers Topic 6 Percentages, fractions and decimals** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce concept (*Interactive: Percentages, decimals and fractions*) • Diagnostic assessment (*Pre-test: Percentages, decimals and fractions*) • Formative assessment (*Post-test: Percentages, decimals and fractions*) **Year 7 Student Workbook resources** • Guided practice p. 72
		Comparing, ordering, and converting between fractions, decimals, and percentages	**Unit 3 Rational numbers Topic 6 Percentages, fractions and decimals** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Percentages, decimals and fractions*) • Diagnostic assessment (*Pre-test: Percentages, decimals and fractions*) • Formative assessment (*Post-test: Percentages, decimals and fractions*) **Year 7 Student Workbook resources** • Independent practice pp. 73–74 • Extended practice p. 75 **Year 7 Printable student resources** • Working out fractions and percentages of amounts (*Activity sheet: Shannon's shopping shenanigans*) • Increasing by a fraction or percentage (*Activity sheet: Taxes and tips*) • Finding and comparing fractions and percentages (*Mastery task 3: Lest we forget*) • Finding a fraction of an amount (*Mastery task 6: Is there anybody out there?*) • Finding a fraction (*Mastery task 7:The animal world*) • Working and comparing fractions in music (*Mastery task 10: Music, music, music*)

<table>
<tr>
<td rowspan="2">Number</td>
<td rowspan="2">Number structures (and operations)</td>
<td>Multiplying and dividing numbers by powers of 10

Multiplying and dividing numbers by powers of 10</td>
<td><u>Unit 2 Operations Topic 4 Multiplication, division and powers of 10</u>
Year 7 Teacher resources
• Lesson plan (Sessions 1–4) with 3 supporting BLMs
• Introduce concept (Interactive: Multiplication, division and powers of 10)
• Diagnostic assessment (Pre-test: Multiplication, division and powers of 10)
• Formative assessment (Post-test: Multiplication, division and powers of 10)
• Activity sheet: Holiday in Australia
Year 7 Student Workbook resources
• Guided practice p. 27
• Independent practice pp. 28–30
• Extended practice p. 31
Year 7 Printable student resources
• Working out the cost of a holiday (Activity sheet: Holiday in Australia)

<u>Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals. Finding Percentages.</u>
Year 8 Teacher resources
• Lesson plan (Session 3)
• Introduce concept (Interactive: Coming Term 1 2026)
• Diagnostic assessment (Pre-test: Multiplication of fractions and decimals. Finding percentages)
• Formative assessment (Post-test: Multiplication of fractions and decimals. Finding percentages)
Year 8 Student Workbook resources
• Extended practice p. 64 (Q. 1)</td>
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<tr>
<td>Finding equivalent fractions and representing fractions in their simplest form</td>
<td><u>Unit 3 Rational numbers Topic 1 Fractions</u>
Year 7 Teacher resources
• Lesson plan (Sessions 2–4) with 1 supporting BLM
• Introduce concept (Interactive: Fractions)
• Diagnostic assessment (Pre-test: Fractions)
• Formative assessment (Post-test: Fractions)
Year 7 Student Workbook resources
• Independent practice pp. 53–54
• Extended practice p. 55
Year 7 Printable student resources
• Comparing fractions with different denominators (Activity sheet: Dicey Fractions)

<u>Unit 3 Rational numbers Topic 2 Compare, order and convert between fractions, decimals and percentages</u>
Year 8 Teacher resources
• Lesson plan (Sessions 1- 2) with 1 supporting BLM
• Introduce concept (Interactive: Coming Term 1 2026)
• Diagnostic assessment (Pre-test: Compare, order and convert between fractions, decimals and percentages)
• Formative assessment (Post-test: Compare, order and convert between fractions, decimals and percentages)
Year 8 Student Workbook resources
• Guided practice p. 54 (Q. 1- 2)
• Independent practice pp. 55–56 (Q. 1–5)
• Extended practice p. 31
Year 8 Printable student resources
• Converting between fractions, decimals and percentages (Activity Sheet: Numbers as fractions, decimals and percentages)
• Simplifying fractions (Mastery task 1: Aotearoa New Zealand)</td>
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Number	**Number structures (and operations)**	Multiplying whole numbers by fractions and representing the answer in its simplest form	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals. Finding Percentages.** **Year 8 Teacher resources** • Lesson plan (Session 2) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 59 (Q. 2) • Independent practice p. 62 (Q. 3)
		Multiplying decimals by whole numbers (e.g. 0.7 × 5 and 0.7 × 50, which both relate to knowing 7 × 5 = 35)	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 59, (Q. 1) • Independent practice pp. 60–62 (Q. 1–2) • Extended practice p. 64, (Q. 2)
		Dividing fractions by whole numbers and representing the answer in its simplest form	**Unit 12 New curriculum content Topic 2 Dividing fractions by whole numbers** **Year 7 Teacher resources** • Front of class material (*Dividing fractions by whole numbers*)
		Dividing a whole number by a unit fraction	**Unit 12 New curriculum content Topic 3 Dividing whole numbers by fractions** **Year 7 Teacher resources** • Front of class material (*Dividing whole numbers by fractions*)
		Representing numbers in expanded form using powers of 10 (e.g. $34{,}506 = 3 \times 10^4 + 4 \times 10^3 + 5 \times 10^2 + 6$)	**Unit 1 Number structure Topic 1 Whole numbers and decimals** **Year 8 Teacher resources** • Lesson plan (Session 3) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Whole numbers and decimals*) • Formative assessment (*Post-test: Whole numbers and decimals*)
		Using radicals (√) to represent square roots	**Unit 12 New curriculum content Topic 1 Representing square roots** **Year 7 Teacher resources** • Front of class material (*Representing square roots*)
		Identifying prime numbers to 100	**Unit 1 Number structure Topic 3 Prime numbers, factors and multiples** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) • Introduce concept (*Interactive: Prime and composite numbers*) • Diagnostic assessment (*Pre-test: Prime numbers, factors and multiples*) • Formative assessment (*Post-test: Prime numbers, factors and multiples*) • Identifying prime numbers to 100 (*Activity sheet: Multiple family factors*) **Year 7 Student Workbook resources** • Guided practice p. 10 • Independent practice p. 11 **Year 7 Printable student resources** • Working out factors of a number (*Activity sheet: Multiple family factors*)

Number	**Number structures (and operations)**	Identifying the additive inverse of any number	**Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–6) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Guided practice p. 101 • Independent practice pp. 102–103 • Extended practice p. 104–105 **Year 8 Printable student resources** • Solving equations through balancing (*Activity sheet: A balancing act*)
		Using negative numbers to solve problems in a range of contexts, including the measurement of temperature and finance	**Unit 2 Operations Topic 9 Integers** **Year 7 Teacher resources** • Lesson plan (Sessions 2–4) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) • Activity Sheet: Borrowing from the bank **Year 7 Student Workbook resources** • Independent practice pp. 50 • Extended practice p.51 **Year 7 Printable student resources** • Using Excel to work out balances of bank accounts (*Activity sheet: Borrowing from the bank*)
		Adding and subtracting fractions, including improper fractions and mixed numbers, and representing the answer in its simplest form	**Unit 3 Rational numbers Topic 2 Adding and subtracting fractions** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Adding and subtracting fractions*) • Diagnostic assessment (*Pre-test: Adding and subtracting fractions*) • Formative assessment (*Post-test: Adding and subtracting fractions*) **Year 7 Student Workbook resources** • Guided practice p. 56 • Independent practice pp. 57–58 • Extended practice p. 59 **Year 7 Printable student resources** • Using fractions to map out an amusement park area (*Activity sheet: Fractions of amusement*)
		Adding and subtracting decimals	**Unit 3 Rational numbers Topic 4 Adding and subtracting decimals** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLMs • Introduce concept (*Interactive: Adding and subtracting decimals*) • Diagnostic assessment (*Pre-test: Adding and subtracting decimals*) • Formative assessment (*Post-test: Adding and subtracting decimals*) **Year 7 Student Workbook resources** • Guided practice p. 64 • Independent practice pp. 65–66 • Extended practice p. 67 **Year 7 Printable student resources** • Adding and subtracting decimals solving a problem (*Activity sheet: It's rocket science*)
		Finding a fraction of a whole number (e.g. 5/3 of 186)	**Unit 12 New curriculum content Topic 4 Fractions of whole numbers** **Year 7 Teacher resources** • Front of class material (*Fractions of whole numbers*)
		Finding a whole amount when given a fraction (e.g. 5/4 of the set is 85, what is the whole set?)	**Unit 12 New curriculum content Topic 5 Finding the whole from a fraction** **Year 7 Teacher resources**

			• Front of class material (*Finding the whole from a fraction*)
Number	**Number structures (and operations)**	Finding common percentages of whole numbers	**Unit 4 Financial mathematics Topic 1 Financial mathematics** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Discounts*) • Diagnostic assessment (*Pre-test: Financial Mathematics*) • Formative assessment (*Post-test: Financial mathematics*) **Year 7 Student Workbook resources** • Guided practice p. 76 • Independent practice pp. 77–78 • Extended practice p. 79 **Year 7 Printable student resources** • Comparing different phone companies' plans (*Activity sheet: What's the plan?*) **Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals. Finding Percentages.** **Year 8 Teacher resources** • Lesson plan Daily practice activity **Year 8 Student Workbook resources** • Independent practice p. 63 (Q. 4)
		Finding the whole (100%) when given a percentage (e.g. 40% is 28)	**Unit 12 New curriculum content Topic 6 Finding the whole from a percentage** **Year 7 Teacher resources** • Front of class material (*Finding the whole from a percentage)*
		Using proportional reasoning to explore multiplicative relationships between quantities (e.g. "If there are 3 red for every 7 blue balls, how many balls are there altogether when there are 18 red balls?")	**Unit 3 Rational numbers Topic 1 Fractions** **Year 7 Teacher resources** • Proportional reasoning *(BLM: Ratios as equivalent fractions*) **Year 7 Student Workbook resources** **Unit 3 Rational Numbers Topic 6 Percentage, fractions and decimals** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Percentage, fractions and decimals*) • Diagnostic assessment (*Pre-test: Percentage, fractions and decimals*) • Formative assessment (*Post-test: Percentage, fractions and decimals*) **Year 7 Student Workbook resources** • Extended practice p. 75 (Q. 6) **Year 7 Printable student resources** • Converting units and calculating the cost for ice cream using proportional reasoning with a recipe (*Mastery task 1: Who likes ice cream?*)
	Financial maths	Calculating the total cost and change for a transaction involving any amount of money	**Unit 4 Financial mathematics Topic 1 Money and money calculations** **Year 5 Teacher resources** • Lesson plan (Sessions 1–4) with 4 supporting BLMs • Introduce concept (*Interactive: Money calculations*) • Diagnostic assessment (*Pre-test: Money and money calculations*) • Formative assessment (*Post-test: Money and money calculations*) **Year 5 Student Workbook resources** • Guided practice p. 43 (Q. 2) • Independent practice pp. 44–45 (Q. 1–3, 5–6) • Extended practice p. 46 (Q.1) **Year 5 Printable student resources**

			• Shilling, pounds and pence and other currencies (*Activity sheet: Money then, now and around the world*)
Number	**Financial maths**	Applying percentage discounts to whole dollar amounts (e.g. in a 20%-off sale)	**Unit 4 Financial mathematics Topic 1 Financial mathematics** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Discounts*) • Diagnostic assessment (*Pre-test: Financial Mathematics*) • Formative assessment (*Post-test: Financial mathematics*) **Year 7 Student Workbook resources** • Guided practice p. 76 • Independent practice pp. 77–78 • Extended practice p. 79 **Year 7 Printable student resources** • Comparing different phone companies' plans (*Activity sheet: What's the plan?*) **Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 60 (Q. 3) • Independent practice p. 63 (Q. 4–5) **Unit 4 Financial mathematics Topic 2 Percentage discounts** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Percentage discounts*) • Formative assessment (*Post-test: Percentage discounts*) **Year 8 Student Workbook resources** • Guided practice p. 81 • Independent practice pp. 82–84 • Extended practice p. 85
Algebra	**Equations and relationships**	Forming and solving one- and two-step linear equations with integer solutions (e.g. $t + 7 = 12, 5s + 3 = 18$)	**Unit 5 Algebra Topic 1 Number operations and equations** **Year 7 Teacher resources** • Lesson plan (Session 2) • Diagnostic assessment (*Pre-test: Number operations and equations*) • Formative assessment (*Post-test: Number operations and equations*) **Year 7 Student Workbook resources** • Guided practice pp. 80–81 (Q. 2–3) **Year 7 Printable student resources** • Order of operations and proving "think of a number" problems that always give the same answer (*Mastery task 9: The magic of numbers*)

Algebra	**Equations and relationships**	Forming and solving one- and two-step linear equations with integer solutions (e.g. $t + 7 = 12, 5s + 3 = 18$)	**Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–6) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Guided practice p. 101 • Independent practice pp. 102–103 • Extended practice p. 104–105 **Year 8 Printable student resources** Using a balance and blocks to demonstrate balancing equations (*Activity sheet: A balancing act*)
		Using substitution to find the value of an expression or formula (e.g. calculating w+12 given w=4)	**Unit 5 Algebra Topic 3 Algebraic expressions** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Algebraic expressions*) • Formative assessment (*Post-test: Algebraic expressions*) **Year 8 Student Workbook resources** • Independent practice p. 99 (Q. 4–5)
		Identifying the constant increase or decrease in a linear pattern, using variables and algebraic notation to represent the rule in an equation, and using the equation to make conjectures	**Unit 5 Algebra Topic 1 Number operations and equations** **Year 7 Teacher resources** • Lesson plan (Session 3–4) • Diagnostic assessment (*Pre-test: Number operations and equations*) • Formative assessment (*Post-test: Number operations and equations*) **Year 7 Student Workbook resources** • Extended practice p. 84 **Year 7 Printable student resources** • Drawing the Fibonacci sequence on grid paper (*Activity sheet: Fibonacci fun*)\ **Unit 5 Algebra Topic 3 Algebraic expressions** **Year 8 Teacher resources** • Lesson plan (Session 2) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Algebraic expressions*) • Formative assessment (*Post-test: Algebraic expressions*) **Year 8 Student Workbook resources** • Extended practice pp. 99–100 (Q. 2–5) **Year 8 Printable student resources** • Writing equations for school stationery (*Activity sheet: School supplies*)
		Checking the truth of and completing number sentences involving all four operations and including the use of inequalities (e.g. $0.8 \times 12 \leq 8 \times 0.5 + 8$, true or false?)	**Unit 2 Operations Topic 4 Order of operations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Order of operations*) • Formative assessment (*Post-test: Order of operations*) **Year 8 Student Workbook resources** • Independent practice p. 38 (Q. 2) **Year 8 Printable student resources** • Use four 4's to make numbers using the order of operations (*Activity sheet: Four 4's*)

Algebra	**Equations and relationships**	Rearranging known formulae using one or two steps	**Unit 12 New curriculum content Topic 7 Rearranging formulae** **Year 7 Teacher resources** • Front of class material (*Rearranging formulae*)
		Simplifying expressions involving any of the four operations by collecting like terms (e.g. 3a+a+a=5a,3b-2b=b)	**Unit 5 Algebra Topic 3 Algebraic expressions** **Year 8 Teacher resources** • Lesson plan (Session 3) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Algebraic expressions*) • Formative assessment (*Post-test: Algebraic expressions*) **Year 8 Student Workbook resources** • Guided practice pp. 96–97 • Independent practice pp. 97–99 **Year 8 Printable student resources** • Forming equations from a context (*Activity Sheet: School supplies*)
		Identifying and plotting points in the four quadrants of the coordinate plane, using ordered pairs and values from a table	**Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Session 5) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Extended practice p. 106 (Q. 8–10) **Year 8 Printable student resources** • Plotting on the co-ordinate plane in all four quadrants (*Mastery task 7:The animal world*)
		Using tables, graphs in the coordinate plane, and diagrams to recognise the relationship between the ordinal position and its corresponding element in a linear pattern, develop a rule for the pattern in words, and make conjectures about further elements in the pattern	**Unit 5 Algebra Topic 5 Interpret and explain patterns** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Interpret and explain patterns*) • Formative assessment (*Post-test: Interpret and explain patterns*) **Year 8 Student Workbook resources** • Guided practice pp. 107–108 • Independent practice pp. 108–110 • Extended practice p. 111 **Year 8 Printable student resources** • Interpret, explain and find a rule for a practical problem (*Activity sheet: Money rules!*)
		Using formulae to find unknown measurements related to area (e.g. the base of a triangle given its area and height, the area of a figure composed of a triangle and rectangle, given side lengths)	**Unit 12 New curriculum content Topic 8 Finding unknown area measurements** **Year 7 Teacher resources** • Front of class material (*Finding unknown area measurements*)
		Using formulae to find unknown measurements related to volume (e.g. the dimensions of a cube given its volume, the volume of a rectangular prism given side lengths)	**Unit 6 Using units of measurement Topic 3 Volume and capacity** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce topic (*Interactive: Volume*) • Diagnostic assessment (*Pre-test: Volume and capacity*) • Finding the missing side: (*Interactive: Capacity*) • Formative assessment (*Post-test: Volume and capacity*)

Algebra	**Equations and relationships**	Using formulae to find unknown measurements related to volume (e.g. the dimensions of a cube given its volume, the volume of a rectangular prism given side lengths)	**Year 7 Student Workbook resources** • Guided practice p. 93 • Independent practice pp. 94–95 • Extended practice p. 96 **Year 7 Printable student resources** • Converting cubic metre to cubic centimetres (*Activity sheet: Pump up the volume*) Practical problems involving tanks (*Activity sheet: Fill'er up*)
		Selecting and using an appropriate base measure (e.g. metre, gram, litre) within the metric system, along with a prefix (e.g. kilo-, centi-) to show the size of units	**Unit 6 Using units of measurement Topic 1 Length and perimeter** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Length and perimeter*) • Formative assessment (*Post-test: Length and perimeter*) **Year 7 Student Workbook resources** • Guided practice p. 85 • Independent practice pp. 86–87 • Extended practice p. 88 **Year 7 Printable student resources** • Measuring and solving problems involving coins (*Activity sheet: Making cents of length*) • Doing calculations with units of measurement to work out the cost of ice cream (*Mastery task 1: Who likes ice cream?*) **Unit 6 Measurement Topic 1 Conversion of metric measures** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Conversion of metric measures*) • Formative assessment (*Post-test: Conversion of metric measures*) **Year 8 Student Workbook resources** • Guided practice p. 120 • Independent practice pp. 121–123 • Extended practice pp. 123–124 **Year 8 Printable student resources** • Converting units (*Activity sheet: Units of length*) • Finding the area of bushfires (*Mastery task 4: Our land of contrasts*) • Using clay to make a house and scale diagrams (*Mastery task 5: Clay modelling*)
		Using formulae to find unknown measurements related to perimeter (e.g. the length of the unknown sides of a square given its perimeter, the length of an unknown side in a composite shape given its perimeter)	Unit 6 Topic 1 provides a starting point for working backwards to find an unknown side length. **Unit 6 Using units of measurement Topic 1 Length and perimeter** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce topic: (*Interactive: Length*) • Diagnostic assessment (*Pre-test: Length and perimeter*) • Formative assessment (*Post-test: Length and perimeter*) **Year 7 Student Workbook resources** • Guided practice p. 85 • Independent practice pp. 86-87 • Extended practice p. 88 **Year 7 Printable student resources** • Converting units (*Activity sheet: Units of length*) • Converting units e.g. foot to cm (*Mastery task 2: The Olympic dream*)

Algebra	**Equations and relationships**	Read, interpret, and use timetables and charts that present information about duration Read, interpret, and use timetables and charts that present information about duration	**Unit 6 Using units of measurement Topic 5 Timetables and timelines** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce topic (*Interactive: Timetables and timelines*) • Diagnostic assessment (*Pre-test: Length and perimeter*) • Formative assessment (*Post-test: Timetables and timelines*) **Year 7 Student Workbook resources** • Guided practice p. 101 • Independent practice pp. 103–104 • Extended practice p. 105 **Year 7 Printable student resources** • Reading and calculating duration using timelines (*Activity sheet: It's timeline time*) • Reading and calculating duration using timelines (*Activity sheet: It's timetable time*) • History of the Olympic Games and the years when the games have been held (*Mastery task 2: The Olympic dream*) • Calculations involving time and different planets (*Mastery task 6: Is there anybody out there?*)
Geometry	**Shapes**	Classifying triangles by both their angle and side properties	**Unit 7 Geometry Topic 1 2D shapes** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) with one supporting BLM • Introduce topic (*Interactive: 2D shapes*) • Diagnostic assessment (*Pre-test: 2D shapes*) • Formative assessment (*Post-test: 2D shapes*) **Year 7 Student Workbook resources** • Independent practice pp. 106 (Q. 1) **Year 7 Printable student resources** • Diagonals and triangles in shapes (*Activity sheet: Space exploration*)
	Spatial reasoning	Transforming 2D shapes in the coordinate plane by a single translation, reflection across a given mirror line, or a rotation about a given point by a multiple of 90 degrees	**Unit 8 Spatial reasoning Topic 2 Transformations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Transformations*) • Introduce concept (*Interactive: Multiplication, division and powers of 10*) • Formative assessment (*Post-test: Transformations*) **Year 8 Student Workbook resources** • Guided practice pp. 148–149 • Independent practice pp. 149–150 • Extended practice p. 151 **Year 8 Printable student resources** • Transforming shapes (*Activity Sheet: Tetris*)
		Identifying the 2D shapes that compose 3D shapes	**Unit 8 Spatial reasoning Topic 1 3D shapes** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) with 2 supporting BLMs • Introduce topic (*Interactive: 3D shapes*) • Diagnostic assessment (*Pre-test: 3D shapes*) • Formative assessment (*Post-test: 3D shapes*) **Year 7 Student Workbook resources** • Independent practice p. 114 (Q. 1–2) **Year 7 Printable student resources** • Exploring and making polyhedra (*Activity sheet: Polyhedral possibilities*) • Identifying angles and shapes in 3D objects (*Mastery task 8: A world of patterns*)

Geometry	**Spatial reasoning**	Drawing nets for prisms and pyramids	**Unit 8 Spatial reasoning Topic 1 3D shapes** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) with 2 supporting BLMs • Introduce topic (*Interactive: 3D shapes*) • Diagnostic assessment (*Pre-test: 3D shapes*) • Formative assessment (*Post-test: 3D shapes*) **Year 7 Student Workbook resources** • Independent practice p. 114 (Q. 1–2) **Year 7 Printable student resources** • Exploring and making polyhedra (*Activity sheet: Polyhedral possibilities*) **Unit 8 Spatial reasoning Topic 1 Prisms and nets** **Year 8 Teacher resources** • Lesson plan (Sessions 1 and 2) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Prisms and nets*) • Formative assessment (*Post-test: Prisms and nets*) **Year 8 Student Workbook resources** • Independent practice p. 146 (Q. 4) • Extended practice p. 147 (Q. 3) **Year 8 Printable student resources** • Identifying and sketching nets (*Activity sheet: Sketching nets*)
		Reasoning about unknown angles in situations involving perpendicular lines, parallel lines, and transversals	**Unit 7 Geometry Topic 2 Angles** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 8 Student Workbook resources** • Extended practice p. 142 **Year 8 Printable student resources** • Identifying angles in 3D shapes (*Mastery task 8: A world of patterns*)
		Solving for an unknown angle in a diagram by setting up and solving a multi-step equation based on supplementary, complementary, vertical, and adjacent angle relationships	**Unit 7 Geometry Topic 2 Angles** **Year 8 Teacher resources** • Lesson plan (Sessions 2–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 8 Student Workbook resources** • Guided practice p. 139 • Independent practice pp. 140–141 **Year 8 Printable student resources** • Supplementary, complementary, vertically opposite and angles at a point (*Activity sheet: Angles at a point*)

Geometry	**Pathways**	Interpreting and communicating the location of positions and pathways using coordinates, angle measures, and the eight main and halfway compass points (e.g. NE, which is 45° E from N)	**Unit 9 Positions and pathways Topic 1 Positions and pathways** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Positions and pathways*) • Formative assessment (*Post-test: Positions and pathways*) **Year 7 Student Workbook resources** • Guided practice p. 121 • Independent practice pp. 122–123 • Extended practice p.124 **Year 7 Printable student resources** • Locating places on a map and estimating lengths and area (*Mastery task 4: Our land of contrasts*) • Location of the planets and potentially hazardous asteroids (*Mastery task 6: Is there anybody out there?*)
Statistics	**Developing knowledge from data**	Planning and collecting data in order to respond to a statistical question (e.g. Are our feet the same length?)	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Guided practice p. 125 • Independent practice pp. 126–127 • Extended practice p.128 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*)
		Calculating the mean, median, and mode for numerical data	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 4) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*)
		Calculating the range for numerical data	**Unit 12 New curriculum content Topic 9 Calculating range** **Year 7 Teacher resources** • Front of class material (*Calculating range*)
	Visualisation of data	For a given set of data, choosing and constructing an appropriate data visualisation according to the data type (e.g. a dot plot, bar graph, time-series graph)	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Independent practice pp. 126–127 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*)

Statistics	**Visualisation of data**	Noticing and explaining outliers in a given set of data	**Unit 10 Data Topic 2 Representing and interpreting data** **Year 8 Teacher resources** • Lesson plan (Session 6) with 1 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Representing and interpreting data*) • Formative assessment (*Post-test: Representing and interpreting data*) **Year 8 Student Workbook resources** • Extended practice p. 166
	Interpretation of data	Responding to statistical questions by calculating an appropriate measure of central tendency and range for a variety of data tables and data visualisations	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) (Q. 4–5)
		Interpreting data visualisations, including those from contemporary media	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Guided practice p. 125 • Extended practice p.128 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*) **Unit 10 Statistics Topic 2 Data in the media** **Year 7 Teacher resources** • Lesson plan (Sessions 1–5) with 2 supporting BLMs • Introduce topic: (*Interactive: Data in the media*) • Diagnostic assessment (*Pre-test: Data in the media*) • Formative assessment (*Post-test: Data in the media*) **Year 7 Student Workbook resources** • Guided practice p. 129 • Independent practice pp. 130–131 • Extended practice p.132 **Year 7 Printable student resources** • Investigating census data (*Activity sheet: Making sense of the census*) • Interpreting and completing data in a table (*Mastery task 1: Who likes ice cream?*) • Interpreting data from the Olympic Games in graph from (*Mastery task 2: The Olympic dream*) • Interpreting data from a table (*Mastery task 3: Lest we forget*) • Interpreting data bushfires and making a timeline (*Mastery task 4: Our land of contrasts*) • Interpreting data from tables to do with the planets and asteroids (*Mastery task 6: Is there anybody out there?*) • Interpreting data in tables and plotting data on the coordinate plane in all four quadrants (*Mastery task 7:The animal world*) **Year 8 Printable student resources** • Interpreting timelines (*Mastery task 2: A world of athletes*) • Interpreting data from a table (*Mastery task 4: Listening to music*) • Interpreting data from tables and graphs (*Mastery task 5: Sport in Aotearoa New Zealand*)

<table>
<tr><td rowspan="2">Statistics</td><td rowspan="2">Interpretation of data</td><td>Identifying when a data visualisation cannot be interpreted accurately due to missing information</td><td>Unit 10 Statistics Topic 2 Data in the media
Year 7 Teacher resources
• Lesson plan (Sessions 1–5) with 2 supporting BLMs
• Introduce topic: (Interactive: Data in the media)
• Diagnostic assessment (Pre-test: Data in the media)
• Formative assessment (Post-test: Data in the media)
Year 7 Student Workbook resources
• Guided practice p. 129
• Independent practice pp. 130–131
• Extended practice p.132
Year 7 Printable student resources
• Investigating census data (Activity sheet: Making sense of the census)
• Interpreting and completing data in a table (Mastery task 1: Who likes ice cream?)
• Interpreting data from the Olympic Games in graph from (Mastery task 2: The Olympic dream)
• Interpreting data from a table (Mastery task 3: Lest we forget)
• Interpreting data bushfires and making a timeline (Mastery task 4: Our land of contrasts)
• Interpreting data from tables to do with the planets and asteroids (Mastery task 6: Is there anybody out there?)
• Interpreting data in tables and plotting data on the coordinate plane in all four quadrants (Mastery task 7:The animal world)</td></tr>
<tr><td>Identifying outliers by eye and taking them into account when using range as a measure of spread</td><td>Unit 12 New curriculum content Topic 10 Spotting outliers
Year 7 Teacher resources
• Front of class material (Spotting outliers)</td></tr>
<tr><td>Probability</td><td>Experimental probability</td><td>Carrying out a chance experiment and calculating the experimental probability of each outcome</td><td>Unit 11 Probability Topic 2 Conducting chance experiments and analysing outcomes
Year 7 Teacher resources
• Lesson plan (Sessions 1–4) with one supporting BLM
• Introduce topic (Interactive: Conducting chance experiments and analysing outcomes)
• Diagnostic assessment (Pre-test: Conducting chance experiments and analysing outcomes)
• Formative assessment (Post-test: Conducting chance experiments and analysing outcomes)
Year 7 Student Workbook resources
• Guided practice p. 137
• Independent practice pp. 136–137
• Extended practice p.138
Year 7 Printable student resources
• Probability dice game (Activity sheet: Fair go!)

Unit 11 Probability Topic 1 Describing probabilities
Year 8 Teacher resources
• Lesson plan (Session 1–2) with 1 supporting BLM
• Diagnostic assessment (Pre-test: Describing probabilities)
• Formative assessment (Post-test: Describing probabilities)
Year 8 Student Workbook resources
• Independent practice pp. 173–175 (Q. 3)
Year 8 Printable student resources
• Probability of getting “snap” (Activity sheet: Probability snap)
• Comparing probabilities (Mastery task 12: Tabletop games)</td></tr>
</table>

Probability	**Experimental probability**	Comparing experimental probability (using at least 30 trials) to theoretical probability, and explaining why they differ and how increasing the number of trials reduces this difference	**Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–177 **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)
		Carrying out chance experiments of at least 100 trials and comparing the experimental probability of each individual outcome to its theoretical probability, in order to demonstrate the Law of Large Numbers	**Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–177 **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)
	Theoretical probability	Calculating probabilities for events as decimals, fractions, and percentages	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) with one supporting BLM • Introduce topic (*Interactive: Describing probabilities*) • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Guided practice p. 133 • Independent practice pp. 134–135 (Q. 1–5, 7–8) **Year 7 Printable student resources** • Finding the theoretical probability of playing 21 or bust (*Activity sheet: 21 or bust*) • Calculating probabilities as fractions and percentages (*Mastery task 12: Tabletop games*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 (Q. 5) • Extended practice pp. 175–177 (Q. 4) **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)

Probability	**Theoretical probability**	Comparing the likelihood of different events	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Session 3) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Independent practice p. 135 (Q. 6 and 9) **Year 7 Printable student resources** • Finding the theoretical probability of playing 21 or bust (*Activity sheet: 21 or bust*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–176 **Year 8 Printable student resources** • Probability of getting "snap" (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)
		Calculating probabilities for complementary events	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Session 3) with 1 supporting BLM • Introduce topic (*Interactive: Describing probabilities*) • Diagnostic assessment (*Pre-test: Describing probabilities* • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Extended practice p. 136 **Year 7 Printable student resources** • Probability dice game (*Activity sheet: Fair go!*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Independent practice pp. 173–175 (Q. 6)

Year 8

Strand	Element	Practices The skills, strategies, and applications to teach	Relevant teacher and student resources in *Mathematics and Statistics for Aotearoa New Zealand*
NOTE TO TEACHERS: Click the hyperlink for each Unit and Topic below to go to Oxford Digital, then select 'Topic resources' in right menu for detailed alignment information and access to all online resources.			
Number	**Number structures**	Reading, writing comparing, and ordering whole numbers and decimals using positive and negative powers of 10	**Unit 1 Number Structure Topic 1 Whole numbers and decimals** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Whole numbers and decimals*) • Formative assessment (*Post-test: Whole numbers and decimals*)
		Representing composite numbers as products of their prime factors, using exponents to summarise repeated factors (e.g. $36 = 2 \times 2 \times 3 \times 3 \times 3 = 2^2 \times 3^3$)	**Unit 1 Number Structure Topic 2 Prime factorisation** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Prime factorisation*) • Formative assessment (*Post-test: Prime factorisation*) **Year 8 Student Workbook resources** • Guided practice pp. 8–9 • Independent practice pp. 9–11 **Year 8 Printable student resources** • Factor trees (*Activity sheet: Pizza with a topping of primes*)
		Representing whole numbers and decimals in expanded form using powers of 10 (e.g. $3.61 = 3 \times 10^1 + 6 \times 10^{-1} + 1 \times 10^{-2}$)	**Unit 1 Number Structure Topic 1 Whole numbers and decimals** **Year 8 Teacher resources** • Lesson plan (Session 3) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Whole numbers and decimals*) • Formative assessment (*Post-test: Whole numbers and decimals*)
		Representing negative powers of 10 as a fraction and a decimal, and vice-versa (e.g. $0.01 = \frac{1}{100} = 10^{-2}$)	**Unit 1 Number Structure Topic 3 Squares and exponents** **Year 8 Teacher resources** • Lesson plan (Session 2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Squares and exponents*) • Formative assessment (*Post-test: Squares and exponents*) **Year 8 Student Workbook resources** • Extended practice p. 18 (Q. 1) **Year 8 Printable student resources** • Investigating squared and cubed numbers to find patterns (*Activity sheet: Squared and cubed number patterns*)
		Using exponents and identifying cube roots for cube numbers up to at least 125	**Unit 1 Number Structure Topic 3 Squares and exponents** **Year 8 Teacher resources** • Lesson plan (Session 2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Squares and exponents*) • Formative assessment (*Post-test: Squares and exponents*) **Year 8 Student Workbook resources** • Independent practice pp. 16–17 (Q. 1–3) • Extended practice p. 18 **Year 8 Printable student resources** • Investigating squared and cubed numbers to find patterns (*Activity sheet: Squared and cubed number patterns*)

Number	**Number structures**	Using radicals ($\sqrt{\ }$ and $\sqrt[3]{\ }$) to represent square and cube roots	**Unit 12 New curriculum content Topic 1 Representing square and cube roots** **Year 8 Teacher resources** • Front of class material (*Representing square and cube roots*)
		Evaluating square and cube roots for perfect squares and cubes and using a calculator to approximate them for other numbers	**Unit 1 Number Structure Topic 2 Square numbers and square roots** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Square numbers and square roots*) • Diagnostic assessment (*Pre-test: Square numbers and square roots*) • Formative assessment (*Post-test: Square numbers and square roots*) **Year 7 Student Workbook resources** • Guided practice p. 6 • Independent practice pp. 7–8 • Extended practice p. 9 **Year 7 Printable student resources** • Finding square numbers in context and estimating square roots of imperfect square numbers (*Activity sheet: Square and root numbers*) **Unit 1 Number structure Topic 3 Squares and exponents** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Squares and exponents*) • Formative assessment (*Post-test: Squares and exponents*) **Year 8 Student Workbook resources** • Guided practice pp. 14–15 • Independent practice pp. 16–17 (Q. 4–7) **Year 8 Printable student resources** • Investigating squared and cubed numbers to find patterns (*Activity sheet: Squared and cubed number patterns*)
		Locating negative and positive numbers on a number line	**Unit 2 Operations Topic 5 Integers** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) **Year 8 Student Workbook resources** • Guided practice pp. 42–43 • Independent practice p. 43 (Q.1) **Year 8 Printable student resources** • Comparing integer temperatures (*Activity sheet: Weather at Thredbo*)
		Comparing and ordering negative and positive numbers using a number line (e.g. $-3.4 < -3$)	**Unit 2 Operations Topic 5 Integers** **Year 8 Teacher resources** • Lesson plan (Session 2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) **Year 8 Student Workbook resources** • Independent practice pp. 43–45 (Q. 2–8) **Year 8 Printable student resources**

			• Comparing integer temperatures (*Activity sheet: Weather at Thredbo*)
Number	**Number structures**	Evaluating expressions involving negative numbers, addition, and subtraction (e.g. $3 + -7$)	**Unit 2 Operations Topic 5 Integers** **Year 8 Teacher resources** • Lesson plan (Session 3) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Integers*) • Formative assessment (*Post-test: Integers*) **Year 8 Student Workbook resources** • Independent practice p. 46 (Q. 9) • Extended practice pp. 46–47 **Year 8 Printable student resources** • Comparing integer temperatures (*Activity sheet: Weather at Thredbo*)
		Identifying percentage equivalence in calculations (e.g. 45% of 20 is equal to 20% of 45)	**Unit 12 New curriculum content Topic 4 Percentage equivalence** **Year 8 Teacher resources** • Front of class material (*Percentage equivalence*)
	Operations	Using rounding, estimation, and benchmarks to predict results and to check the reasonableness of calculations (e.g. 14.7×5 must be between $14 \times 5 = 70$ and $15 \times 5 = 75$)	**Unit 2 Operations Topic 1 Calculations involving rounding and estimation** **Year 8 Teacher resources** • Lesson plan (Session 3) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Calculations involving rounding and estimation*) • Formative assessment (*Post-test: Calculations involving rounding and estimation*) **Year 8 Student Workbook resources** • Guided practice p. 19 (Q. 1) • Independent practice pp. 21–23 • Extended practice pp. 23–25 **Year 8 Printable student resources** • Rounding to large place and small place values (*Activity sheet: Rounding numbers*) • Rounding to decimal places (*Mastery task 1: Aotearoa New Zealand*) • Rounding times, distances and speed (*Mastery task 2: A world of athletes* • Rounding and estimating (*Mastery task 3: Collections*)
		Rounding whole numbers to any specified power of 10, and rounding decimals to the nearest whole number, tenth, hundredth, or thousandth	**Unit 1 Number Structure Topic 1 Whole numbers and decimals** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Whole numbers and decimals*) • Formative assessment (*Post-test: Whole numbers and decimals*) **Year 8 Student Workbook resources** • Extended practice p. 4 Q. 6 Rounding to the nearest tenth **Year 8 Printable student resources** • Rounding to whole, tens, hundred etc, place values and counting in decimal increments on a number line (*Activity sheet: Place value and rounding numbers*) • Rounding to decimal places (*Mastery task 1: Aotearoa New Zealand*) **Unit 2 Operations Topic 1 Calculations involving rounding and estimation** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Calculations involving rounding and estimation*)

			• Formative assessment (*Post-test: Calculations involving rounding and estimation*)
Number	**Operations**	Rounding whole numbers to any specified power of 10, and rounding decimals to the nearest whole number, tenth, hundredth, or thousandth	**Year 8 Student Workbook resources** • Guided practice p. 20 (Q. 2) **Year 8 Printable student resources** • Rounding to) large place and small place values (*Activity sheet: Rounding numbers*) • Rounding to decimal places (*Mastery task 1: Aotearoa New Zealand*) • Rounding time (*Mastery task 8: Bread*) Rounding distance (*Mastery task 10: Dancing around the world*)
		Multiplying and dividing whole numbers (e.g. $327 \div 15 = 21.8$ or $21\frac{4}{5}$)	**Unit 2 Operations Topic 2 Multiplication** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication*) • Formative assessment (*Post-test: Multiplication*) **Year 8 Student Workbook resources** • Guided practice p. 26 • Independent practice pp. 27–28 • Extended practice pp. 30–31 **Year 8 Printable student resources** • Rounding and estimating 2 digit by 2 digit multiplication (*Activity sheet: How many stairs?*) **Unit 2 Operations Topic 3 Division** **Year 8 Teacher resources** • Lesson plan (Sessions 1- 4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Division*) • Formative assessment (*Post-test: Division*) **Year 8 Student Workbook resources** • Guided practice pp. 32–33 • Independent practice pp. 33–35 • Extended practice pp. 35–36 **Year 8 Printable student resources** • Work out how many lollies per person from a bag of lollies (*Activity sheet: Lollie bags*)
		Evaluating expressions with integers, using the order of operations	**Unit 2 Operations Topic 4 Order of operations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Order of operations*) • Formative assessment (*Post-test: Order of operations*) **Year 8 Student Workbook resources** • Guided practice p. 37 • Independent practice pp. 38–40 • Extended practice pp. 40–41 **Year 8 Printable student resources** • Use four 4's to make numbers using the order of operations (*Activity sheet: Four 4's*) • Understanding the order of operations in the formation of an algebraic expression (*Mastery task 3: Collections*) • Order of operations (*Mastery task 6: The Haka*)

Number	**Rational numbers**	Identifying, reading, writing, and representing fractions, decimals, and percentages	**Unit 3 Rational numbers Topic 1 Identify fractions, decimals and percentages** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Identify fractions, decimals and percentages*) • Formative assessment (*Post-test: Identify fractions, decimals and percentages*) **Year 8 Student Workbook resources** • Guided practice p. 48 (Q. 1) • Independent practice pp. 50–51 • Extended practice pp. 52–53
		Comparing, ordering, and converting between fractions, decimals, and percentages	**Unit 3 Rational numbers Topic 1 Identify fractions, decimals and percentages** **Year 8 Teacher resources** • Introduce concept (*Interactive: Coming Term 1 2026*) • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Diagnostic assessment (*Pre-test: Identify fractions, decimals and percentages*) • Formative assessment (*Post-test: Identify fractions, decimals and percentages*) **Year 8 Student Workbook resources** • Guided practice pp. 48–49 (Q. 2–3) • Independent practice p. 50 (Q. 1) **Year 8 Printable student resources** • Dominoes (*Activity Sheet: Dominations*) • Converting fractions, decimals and percentages (*Mastery task 1: Aotearoa New Zealand*) • Comparing fractions (*Mastery task 4: Listening to music*) • Converting a fraction to a decimal and rounding it to three decimal places (*Mastery task 12: Tabletop games*)
		Multiplying and dividing numbers by powers of 10	**Unit 2 Operations Topic 4 Multiplication, division and powers of 10** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Multiplication, division and powers of 10*) • Diagnostic assessment (*Pre-test: Multiplication, division and powers of 10*) • Formative assessment (*Post-test: Multiplication, division and powers of 10*) **Year 7 Student Workbook resources** • Guided practice p. 27 • Independent practice pp. 28–30 • Extended practice p. 31 **Year 7 Printable student resources** • Working out the total cost (*Activity Sheet: Holiday in Australia*) **Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Extended practice p. 64 (Q. 1)

Number	**Rational numbers**	Finding a fraction of a whole number, including when the result is a mixed number or improper fraction (e.g. for 2/5 of 42, 2/5×42=84/5=16 2/5)	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Extended practice p. 64 (Q. 1)
		Multiplying whole numbers by fractions, including by improper fractions, by mixed numbers, and by first converting to an improper fraction	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Extended practice p. 64 (Q. 1)
		Multiplying fractions and representing the answer in its simplest form	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals. Finding Percentages** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 59 (Q. 2) • Independent practice p. 62 (Q. 3)
		Multiplying positive decimals (e.g. 2.3×45)	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 59 (Q. 1) • Independent practice pp. 60–62 (Q. 1–2) • Extended practice p. 64 (Q. 2) **Year 8 Printable student resources** • Multiplying decimals (*Activity Sheet: Practising multiplying decimals*)
		Finding a whole amount when given a fraction, including when the whole set is a mixed number or improper fraction (e.g. if 8 is 3/5 of a set, 8×5/3=13 1/3)	**Unit 12 New curriculum content Topic 2 Finding the whole from a fraction** **Year 8 Teacher resources** • Front of class material (*Finding the whole from a fraction*)

Number	**Rational numbers**	Finding percentages of whole numbers	**Unit 3 Rational numbers Topic 3 Multiplication of fractions and decimals & Finding percentages** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Multiplication of fractions and decimals. Finding percentages*) • Formative assessment (*Post-test: Multiplication of fractions and decimals. Finding percentages*) **Year 8 Student Workbook resources** • Guided practice p. 60 (Q. 3) • Independent practice p. 63 (Q. 4–5) **Year 8 Printable student resources** • Finding percentages of a number (*Mastery task 7: Backyard gardens*
		Finding the whole (100%) when given a percentage (e.g. 3% is 27)	**Unit 12 New curriculum content Topic 3 Finding the whole from a percentage** **Year 8 Teacher resources** • Front of class material (*Finding the whole from a percentage*)
		Dividing a quantity into two parts, given the part:part or part:whole ratio	**Unit 3 Rational numbers Topic 5 Proportional reasoning** **Year 8 Teacher resources** • Lesson plan (Sessions 3–4) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Proportional reasoning*) • Formative assessment (*Post-test: Proportional reasoning*) **Year 8 Student Workbook resources** • Independent practice pp. 72–73 (Q. 1–2, 7–8) • Extended practice p. 74 **Year 8 Printable student resources** • Finding ratios in patterns (*Activity Sheet: Quilt patterns*) • Changing a recipe for different situations (*Mastery task 8: Bread*)
		Expressing the division of quantity into two parts as a ratio	**Unit 3 Rational numbers Topic 5 Proportional reasoning** **Year 8 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Proportional reasoning*) • Formative assessment (*Post-test: Proportional reasoning*) **Year 8 Student Workbook resources** • Guided practice p. 71 • Independent practice pp. 72–73 (Q. 3–5) **Year 8 Printable student resources** • Finding ratios in patterns (*Activity Sheet: Quilt patterns*)
	Financial maths	Creating and comparing weekly, monthly, and yearly finance plans (e.g. for saving plans, phone plans, budgets, and ‘buy now, pay later’ services)	**Unit 4 Financial mathematics Topic 1 Financial plans** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 4 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Financial plans*) • Formative assessment (*Post-test: Financial Plans*) **Year 8 Student Workbook resources** • Guided practice p. 75 • Independent practice pp. 76–78 • Extended practice p. 79

Number	**Financial maths**	Applying percentage discounts (e.g. a 35% discount on $180 will give a new price of $\$180 - (0.35 \times \$180) = \$117$)	**Unit 4 Financial mathematics Topic 2 Percentage discounts** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Percentage discounts*) • Formative assessment (*Post-test: Percentage discounts*) **Year 8 Student Workbook resources** • Guided practice p. 81 • Independent practice pp. 82–84 • Extended practice p. 85
Algebra	**Equations and relationships**	Forming and solving linear equations with rational solutions (e.g. $t + 7 = 6.5, 5s + 9 = -18$)	**Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–6) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Guided practice p. 101 • Independent practice p. 103 (Q. 4a) • Extended practice pp. 104–105 (Q.1b 2b, 2d, 3d, 5) **Year 8 Printable student resources** • Using a balance and blocks to demonstrate how to balance equations (*Activity sheet: A balancing act*)
		Forming and solving linear inequalities and representing the solution on a number line (e.g. $t - 3 \geq -5$)	**Unit 12 New curriculum content Topic 5 Linear inequalities** **Year 8 Teacher resources** • Front of class material (*Linear inequalities*)
		Using substitution to find the value of an expression or formula (e.g. calculating w+12 given w=4)	**Unit 5 Algebra Topic 3 Algebraic expressions** **Year 8 Teacher resources** • Lesson plan (Session 3) • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Algebraic expressions*) • Formative assessment (*Post-test: Algebraic expressions*) **Year 8 Student Workbook resources** • Independent practice p. 99 (Q. 4–5) **Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Session 5) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Extended practice pp. 104–105 (Q. 3) **Year 8 Printable student resources** • Using a balance and blocks to demonstrate how to balance an equation (*Activity sheet: A balancing act*) • Substituting and solving equations (*Mastery task 6: The Haka*)
Algebra			

	Equations and relationships	Rearranging formulae using multiple steps and substitution to find an unknown value (e.g. making *a* the subject of A=1/2 (a+b))	**Unit 12 New curriculum content Topic 6 Rearranging formulae** **Year 8 Teacher resources** • Front of class material (*Rearranging formulae*)
		Simplifying algebraic expressions involving sums, products, differences, and single brackets, and collecting like terms (e.g. 2(x+3) + 1= 2x + 6 + 1 = 2x + 7)	**Unit 5 Algebra Topic 3 Algebraic expressions** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Algebraic expressions*) • Formative assessment (*Post-test: Algebraic expressions*) **Year 8 Student Workbook resources** • Guided practice pp. 96–97 • Independent practice pp. 97–99 • Extended practice pp. 99–100 **Year 8 Printable student resources** • Writing expressions and equations (*Activity sheet: School supplies*)
		Factorising simple algebraic expressions (e.g. 5x - 35 = 5(x-7))	**Unit 12 New curriculum content Topic 7 Factorising algebraic expressions** **Year 8 Teacher resources** • Front of class material (*Factorising algebraic expressions*)
		Using tables, graphs in the coordinate plane, and diagrams to recognise the relationship between the ordinal position and its corresponding element in a linear pattern, develop a rule for the pattern in words, and make conjectures about further elements in the pattern	**Unit 5 Algebra Topic 5 Interpret and explain patterns** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Interpret and explain patterns*) • Formative assessment (*Post-test: Interpret and explain patterns*) **Year 8 Student Workbook resources** • Guided practice p. 108 (Q. 3) • Independent practice pp. 108–110 • Extended practice pp. 111 **Year 8 Printable student resources** • Interpret, explain and find a rule for a practical problem (*Activity sheet: Money rules!*)
		Investigating the patterns of triangular numbers, square numbers, and cube numbers, extending the patterns, creating tables of values, and plotting the values on the coordinate plane	**Unit 1 Number Structure Topic 2 Square numbers and square roots** **Year 7 Teacher resources** • Introduce concept (*Interactive: Square numbers and square roots*) • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Square numbers and square roots*) • Formative assessment (*Post-test: Square numbers and square roots*) **Year 7 Student Workbook resources** • Guided practice p. 6 • Independent practice pp. 7–8 • Extended practice p. 9 **Year 7 Printable student resources** • Investigation with square numbers (*Activity sheet: Square and root numbers*)

Algebra	**Equations and relationships**	Investigating the patterns of triangular numbers, square numbers, and cube numbers, extending the patterns, creating tables of values, and plotting the values on the coordinate plane	**Unit 1 Number structure Topic 3 Squares and exponents** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Squares and exponents*) • Formative assessment (*Post-test: Squares and exponents*) **Year 8 Student Workbook resources** • Guided practice pp. 14–15 • Independent practice pp. 16–17 (Q. 4–7) **Year 8 Printable student resources** • Investigating squared and cubed numbers to find patterns (*Activity sheet: Squared and cubed number patterns*) • Investigating triangular patterns and formula (*Mastery task 6: The Haka*) Triangular numbers briefly mentioned (*Mastery task 10: Dancing around the world*)
		Identifying and plotting points in the four quadrants of the coordinate plane, using ordered pairs and values from a table	**Unit 5 Algebra Topic 4 Linear equations** **Year 8 Teacher resources** • Lesson plan (Session 5) • Diagnostic assessment (*Pre-test: Linear equations*) • Formative assessment (*Post-test: Linear equations*) **Year 8 Student Workbook resources** • Extended practice p. 106 (Q. 8–10) **Year 8 Printable student resources** • Plotting points in the four quadrants (*Mastery task 3: Collections*)
		Identifying the constant increase or decrease in a linear pattern, using variables and algebraic notation to represent the rule in an equation, and using the equation to make conjecture	**Unit 5 Algebra Topic 5 Interpret and explain patterns** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Interpret and explain patterns*) • Formative assessment (*Post-test: Interpret and explain patterns*) **Year 8 Student Workbook resources** • Guided practice p. 108 (Q. 3a) • Independent practice pp. 108–110 • Extended practice pp. 111 **Year 8 Printable student resources** • Interpret, explain and find a rule for a practical problem (*Activity sheet: Money rules!*)
Measurement	**Measuring**	Estimating and measuring length, area, volume, capacity, mass (weight), temperature, time, and angle, using appropriate units	**Unit 6 Using units of measurement Topic 1 Length and perimeter** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce topic (*Interactive: Length*) • Diagnostic assessment (*Pre-test: Length and perimeter*) • Formative assessment (*Post-test: Length and perimeter*) **Year 7 Student Workbook resources** • Guided practice p. 85 • Independent practice pp. 86–87 • Extended practice p. 88 **Year 7 Printable student resources** • Using coins to work out lengths (*Activity sheet: Making cents of length*)

Measurement	**Measuring**	Estimating and measuring length, area, volume, capacity, mass (weight), temperature, time, and angle, using appropriate units	**Unit 7 Geometry Topic 2 Angles** **Year 7 Teacher resources** • Introduce topic (*Interactive: Angles*) • Lesson plan (Sessions 1–2) with 3 supporting BLMs • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 7 Student Workbook resources** • Guided practice p. 109 Independent practice p. 110 (Q. 1–3)
		Estimating and measuring length, area, volume, capacity, mass (weight), temperature, time, and angle, using appropriate units	**Unit 6 Measurement Topic 1 Conversion of metric measures** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Conversion of metric measures*) • Formative assessment (*Post-test: Conversion of metric measures*) **Year 8 Student Workbook resources** • Guided practice p. 120 • Independent practice pp. 121–123 • Extended practice pp. 123–124 **Year 8 Printable student resources** • Converting units (*Activity sheet: Units of length*) • Calculations involving lengths of instruments (*Mastery task 4: Listening to music*) • Estimating length and how 2 lines the same length, look different (*Mastery task 11: Optical illusions*) **Unit 6 Measurement Topic 3 Area and volume** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Area and volume*) • Formative assessment (*Post-test: Area and volume*) **Year 8 Student Workbook resources** • Guided practice p. 130 • Independent practice pp. 131–133 • Extended practice pp. 133–134 **Year 8 Printable student resources** • Finding the volume of a building (*Activity sheet: Volume of a building*) • Finding the area and volume of a composite shape (*Mastery task 7: Backyard gardens* • Using different units for facts and figures about bread (*Mastery task 8: Bread* Finding the area of a triangle and a composite shape (*Mastery task 11: Optical illusions*)
		Calculating the area of a parallelogram and a trapezium	**Unit 6 Measurement Topic 3 Area and volume** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Area and volume*) • Formative assessment (*Post-test: Area and volume*) **Year 8 Student Workbook resources** • Independent practice p. 131 (Q. 3–4)
		Calculating the area of a shape, given some lengths and its perimeter, and vice versa	**Unit 12 New curriculum content Topic 8 Calculating area and perimeter** **Year 8 Teacher resources** • Front of class material (*Calculating area and perimeter*)

Measurement	**Measuring**	Calculating lengths of quadrilaterals, given their area and other sufficient information	**Unit 12 New curriculum content Topic 9 Calculating the lengths of quadrilaterals** **Year 8 Teacher resources** • Front of class material (*Calculating the lengths of quadrilaterals*)
		Converting between metric units of area (mm^2, cm^2, m^2, and km^2) and volume (mm^3, cm^3 and m^3)	**Unit 6 Measurement Topic 3 Area and volume** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Area and volume*) • Formative assessment (*Post-test: Area and volume*) **Year 8 Student Workbook resources** • Independent practice p. 131 (Q. 5 and 7)
		Converting between different volume units (cm^3, m^3, mL, L)	**Unit 6 Measurement Topic 3 Area and volume** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Area and volume*) • Formative assessment (*Post-test: Area and volume*) **Year 8 Student Workbook resources** • Independent practice p. 131 (Q. 3–4) • Converting cm^3 to m^3 (*Activity sheet: Volume of a building*) **Unit 6 Using units of measurement Topic 3 Volume and capacity** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce topic (*Interactive: Volume*) • Diagnostic assessment (*Pre-test: Volume and capacity*) • Finding the missing side: (*Interactive: Capacity*) • Formative assessment (*Post-test: Volume and capacity*) **Year 7 Student Workbook resources** • Guided practice p. 93 (Q. 3) **Year 7 Printable student resources** • Converting cubic metre to cubic centimetres (*Activity sheet: Pump up the volume*) • Practical problems involving tanks (*Activity sheet: Fill'er up*)
		Read, interpret, and use timetables, charts and results that present information about duration.	**Unit 6 Using units of measurement Topic 5 Timetables and timelines** **Year7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce topic **(***Interactive: Timetables and timelines*) • Diagnostic assessment (*Pre-test: Length and perimeter*) • Formative assessment (*Post-test: Timetables and timelines*) **Year 7 Student Workbook resources** • Guided practice p. 101 • Independent practice pp. 103–104 • Extended practice p. 105 **Year 7 Printable student resources** • Reading and calculating duration using timelines (*Activity sheet: It's timeline time*) • Reading and calculating duration using timelines (*Activity sheet: It's timetable time*) **Year 8 Printable student resources** • Calculating time with kumara harvest (*Mastery task 1: Aotearoa New Zealand*) • Calculating time and using timelines including BC (*Mastery task 2: A world of athletes*) • Calculating time including BC (*Mastery task 10: Dancing around the world*)

Measurement	**Measuring**	Convert times to a given unit (e.g. hours and minutes to minutes)	**Year 8 Printable student resources** • Calculating and converting times (*Mastery task 2: A world of athletes*)
		Calculating the volume of composite figures made up of cubes, rectangular prisms, and/or triangular prisms	**Unit 12 New curriculum content Topic 10 Calculating the volume of composite figures** **Year 8 Teacher resources** • Front of class material (*Calculating the volume of composite figures*)
		Calculating the volume of triangular prisms	**Unit 6 Measurement Topic 3 Area and volume** **Year 8 Teacher resources** • Lesson plan (Session 3) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Area and volume*) • Formative assessment (*Post-test: Area and volume*) **Year 8 Student Workbook resources** • Independent practice pp. 131–133 (Q. 8–10)
Geometry	**Shapes**	Identifying and describing the parts of a circle: the radius, diameter, and circumference	**Unit 7 Geometry Topic 1 2D shapes** **Year 7 Teacher resources** • Lesson plan (Session 3) with 1 supporting BLM • Introduce topic (*Interactive: 2D shapes*) • Diagnostic assessment (*Pre-test: 2D shapes*) • Formative assessment (*Post-test: 2D shapes*) **Year 7 Student Workbook resources** • Extended practice p. 108 (Q. 1) **Year 7 Printable student resources** • Exploring diagonals and sides of 2D shape (*Activity sheet: Shape exploration*) **Unit 7 Geometry Topic 1 Polygons and circles** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Polygons and circles*) • Formative assessment (*Post-test: Polygons and circles*) **Year 8 Student Workbook resources** • Extended practice p. 138 (Q. 1)
	Spatial reasoning	Transforming 2D shapes on the coordinate plane, including composite shapes, by a combination of translations, reflections, rotations, and scaling by any factor	**Unit 8 Spatial reasoning Topic 2 Transformations** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) • Introduce concept (*Interactive: Multiplication, division and powers of 10*) • Diagnostic assessment (*Pre-test: Transformations*) • Formative assessment (*Post-test: Transformations*) **Year 8 Student Workbook resources** • Guided practice pp. 148–149 • Independent practice pp. 149–150 • Extended practice p. 151 **Year 8 Printable student resources** • Transforming shapes (*Activity Sheet: Tetris*) • Transforming Kowhaiwhai patterns (*Mastery task 9: Kowahiwahi patterns*)

Geometry	**Spatial reasoning**	Transforming 2D shapes on the coordinate plane, including composite shapes, by a combination of translations, reflections, rotations, and scaling by any factor	**Unit 8 Spatial reasoning Topic 2 Resizing 2D shapes** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Resizing 2D shapes*) • Formative assessment (*Post-test: Resizing shapes*) **Year 7 Student Workbook resources** • Guided practice p. 117 • Independent practice pp. 118–119 • Extended practice p. 120 **Year 7 Printable student resources** Enlarging a whare floor plan (*Activity Sheet: The bigger picture*)
		Proving that the interior angle sum of a triangle is 180°, and generalising a rule for the interior angle sum and exterior angles for any polygon	**Unit 7 Geometry Topic 2 Angles** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce topic (*Interactive: Angles*) • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 7 Printable student resources** • Activity proving angles in a triangle add to 180° (*Activity sheet: Can you see my angle?*)
		Reasoning about unknown angles in situations involving internal and external angles of polygons	**Unit 7 Geometry Topic 2 Angles** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce topic (*Interactive: Angles*) • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 7 Student Workbook resources** • Independent practice p. 111 **Year 7 Printable student resources** • Activity proving angles in a triangle add to 180° (*Activity sheet: Can you see my angle?* **Unit 7 Geometry Topic 2 Angles** **Year 8 Teacher resources** • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Angles*) • Formative assessment (*Post-test: Angles*) **Year 8 Student Workbook resources** • Independent practice p. 141 (Q. 6) • Extended practice p. 142 (Q. 2–3) **Year 8 Printable student resources** • Recognising types of angles (*Mastery task 10: Dancing around the world*)
	Pathways	Using map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems	**Unit 9 Positions and pathways Topic 1 Positions and pathways** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Positions and pathways*) • Formative assessment (*Post-test: Positions and pathways*) **Year 7 Printable student resources** • Find the bearing and distance using a map and scale (*Activity sheet: Sail away*)

Geometry	**Pathways**	Using map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems	**Unit 9 Pathways Topic 1 Positions and maps** **Year 8 Teacher resources** • Introduce concept (*Interactive: Coming Term 1 2026*) • Lesson plan (Sessions 1–4) • Diagnostic assessment (*Pre-test: Positions and maps*) • Formative assessment (*Post-test: Positions and maps*) **Year 8 Student Workbook resources** • Guided practice p. 152 • Independent practice pp. 153–155 • Extended practice pp. 155–156 **Year 8 Printable student resources** • Measuring angles and calculating % land area (*Activity Sheet: Sharing the poles*) Journey/Navigation of Kupe to Aotearoa (*Mastery task 1: Aotearoa New Zealand*)
Statistics	**Developing knowledge from data**	Planning and collecting data in order to respond to a statistical question (e.g. Are our feet the same length?)	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Guided practice p. 125 • Independent practice pp. 126–127 • Extended practice p.128 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*)
		Calculating the mean, median, and mode for numerical data	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 4) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*)
		Calculating the range for numerical data	**Unit 12 New curriculum content Topic 11 Calculating range** **Year 8 Teacher resources** • Front of class material (*Calculating range*)
	Visualisation of data	For a given set of data, choosing and constructing an appropriate data visualisation according to the data type (e.g. a dot plot, bar graph, time-series graph)	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Session 2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Independent practice pp. 126–127 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*)

Statistics	**Visualisation of data**	Noticing and explaining outliers in a given set of data	**Unit 10 Data Topic 2 Representing and interpreting data** **Year 8 Teacher resources** • Lesson plan (Session 6) with 1 supporting BLMs • Introduce concept (*Interactive: Coming Term 1 2026*) • Diagnostic assessment (*Pre-test: Representing and interpreting data*) • Formative assessment (*Post-test: Representing and interpreting data*) **Year 8 Student Workbook resources** • Extended practice p. 166
	Interpretation of data	Responding to statistical questions by calculating an appropriate measure of central tendency and range for a variety of data tables and data visualisations	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) (Q. 4–5)
		Interpreting data visualisations, including those from contemporary media	**Unit 10 Statistics Topic 1 Collecting, representing and interpreting data** **Year 7 Teacher resources** • Lesson plan (Sessions 1–2) with 2 supporting BLMs • Introduce topic: (*Interactive: Collecting, representing and interpreting data*) • Diagnostic assessment (*Pre-test: Collecting, representing and interpreting data*) • Formative assessment (*Post-test: Collecting, representing and interpreting data*) **Year 7 Student Workbook resources** • Guided practice p. 125 • Extended practice p.128 **Year 7 Printable student resources** • Finding the mean, median and mode (*Activity sheet: Don't be mean*) • Investigating data to see if a correlation exists (*Activity sheet: Creative correlations*) **Unit 10 Statistics Topic 2 Data in the media** **Year 7 Teacher resources** • Lesson plan (Sessions 1–5) with 2 supporting BLMs • Introduce topic: (*Interactive: Data in the media*) • Diagnostic assessment (*Pre-test: Data in the media*) • Formative assessment (*Post-test: Data in the media*) **Year 7 Student Workbook resources** • Guided practice p. 129 • Independent practice pp. 130–131 • Extended practice p.132 **Year 7 Printable student resources** • Investigating census data (*Activity sheet: Making sense of the census*) • Interpreting and completing data in a table (*Mastery task 1: Who likes ice cream?*) • Interpreting data from the Olympic Games in graph from (*Mastery task 2: The Olympic dream*) • Interpreting data from a table (*Mastery task 3: Lest we forget*) • Interpreting data bushfires and making a timeline (*Mastery task 4: Our land of contrasts*) • Interpreting data from tables to do with the planets and asteroids (*Mastery task 6: Is there anybody out there?*) • Interpreting data in tables and plotting data on the coordinate plane in all four quadrants (*Mastery task 7:The animal world*) **Year 8 Printable student resources** • Interpreting timelines (*Mastery task 2: A world of athletes*) • Interpreting data from a table (*Mastery task 4: Listening to music*) • Interpreting data from tables and graphs (*Mastery task 5: Sport in Aotearoa New Zealand*)

Statistics	**Interpretation of data**	Identifying when a data visualisation cannot be interpreted accurately due to missing information	**Unit 10 Statistics Topic 2 Data in the media** **Year 7 Teacher resources** • Lesson plan (Sessions 1–5) with 2 supporting BLMs • Introduce topic (*Interactive: Data in the media*) • Diagnostic assessment (*Pre-test: Data in the media*) • Formative assessment (*Post-test: Data in the media*) **Year 7 Student Workbook resources** • Guided practice p. 129 • Independent practice pp. 130–131 • Extended practice p.132
		Identifying when a data visualisation cannot be interpreted accurately due to missing information	**Year 7 Printable student resources** • Investigating census data (*Activity sheet: Making sense of the census*) • Interpreting and completing data in a table (*Mastery task 1: Who likes ice cream?*) • Interpreting data from the Olympic Games in graph from (*Mastery task 2: The Olympic dream*) • Interpreting data from a table (*Mastery task 3: Lest we forget*) • Interpreting data bushfires and making a timeline (*Mastery task 4: Our land of contrasts*) • Interpreting data from tables to do with the planets and asteroids (*Mastery task 6: Is there anybody out there?*) • Interpreting data in tables and plotting data on the coordinate plane in all four quadrants (*Mastery task 7:The animal world*)
		Identifying outliers by eye and taking them into account when using range as a measure of spread	**Unit 12 New curriculum content Topic 12 Spotting outliers** **Year 8 Teacher resources** • Front of class material (*Spotting outliers*)
Probability	**Experimental probability**	Carrying out a chance experiment and calculating the experimental probability of each outcome	**Unit 11 Probability Topic 2 Conducting chance experiments and analysing outcomes** **Year 7 Teacher resources** • Lesson plan (Sessions 1–4) with one supporting BLM • Introduce topic (*Interactive: Conducting chance experiments and analysing outcomes*) • Diagnostic assessment (*Pre-test: Conducting chance experiments and analysing outcomes*) • Formative assessment (*Post-test: Conducting chance experiments and analysing outcomes*) **Year 7 Student Workbook resources** • Guided practice p. 137 • Independent practice pp. 136–137 • Extended practice p.138 **Year 7 Printable student resources** • Probability dice game (*Activity sheet: Fair go!*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Independent practice pp. 173–175 (Q. 3) **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)

Probability	**Experimental probability**	Comparing experimental probability (using at least 30 trials) to theoretical probability, and explaining why they differ and how increasing the number of trials reduces this difference	**Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–177 **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)
		Carrying out chance experiments of at least 100 trials and comparing the experimental probability of each individual outcome to its theoretical probability, in order to demonstrate the Law of Large Numbers	**Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–177 **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)
	Theoretical probability	Calculating probabilities for events as decimals, fractions, and percentages	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Sessions 1 and 2) with one supporting BLM • Introduce topic (*Interactive: Describing probabilities*) • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Guided practice p. 133 • Independent practice pp. 134–135 (Q. 1–5, 7–8) **Year 7 Printable student resources** • Finding the theoretical probability of playing 21 or bust (*Activity sheet: 21 or bust*) • Calculating probabilities as fractions and percentages (*Mastery task 12: Tabletop games*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 (Q. 5) • Extended practice pp. 175–177 (Q. 4) **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) • Comparing probabilities (*Mastery task 12: Tabletop games*)

Probability	**Theoretical probability**	Comparing the likelihood of different events	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Session 3) with 2 supporting BLMs • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Independent practice p. 135 (Q. 6 and 9) **Year 7 Printable student resources** • Finding the theoretical probability of playing 21 or bust (*Activity sheet: 21 or bust*)
		Comparing the likelihood of different events	**Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Guided practice pp. 172–173 • Independent practice pp. 173–175 • Extended practice pp. 175–176 **Year 8 Printable student resources** • Probability of getting “snap” (*Activity sheet: Probability snap*) Comparing probabilities (*Mastery task 12: Tabletop games*)
		Calculating probabilities for complementary events	**Unit 11 Probability Topic 1 Describing probabilities** **Year 7 Teacher resources** • Lesson plan (Session 3) with 1 supporting BLM • Introduce topic (*Interactive: Describing probabilities*) • Diagnostic assessment (*Pre-test: Describing probabilities* • Formative assessment (*Post-test: Describing probabilities*) **Year 7 Student Workbook resources** • Extended practice p. 136 **Year 7 Printable student resources** • Probability dice game (*Activity sheet: Fair go!*) **Unit 11 Probability Topic 1 Describing probabilities** **Year 8 Teacher resources** • Lesson plan (Session 1–2) with 1 supporting BLM • Diagnostic assessment (*Pre-test: Describing probabilities*) • Formative assessment (*Post-test: Describing probabilities*) **Year 8 Student Workbook resources** • Independent practice pp. 173–175 (Q. 6)