

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 2 - Years 4-6
Supplier	Oxford University Press

Year 4

Strand	Element	Practices The skills, strategies, and applications to teach	Relevant teacher and student resources in <i>Mathematics and Statistics for Aotearoa New Zealand</i>
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 up to 10,000 and representing them using base 10 structure	Unit 1 Number structures and operations Topic 1 Place value Year 4 Teacher resources <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 4 supporting BLMs Introduce concept (Interactive: Place value) Diagnostic assessment (Pre-test: Place value) Formative assessment (Post-test: Place value) Year 4 Student Workbook resources <ul style="list-style-type: none"> Guided practice p. 2 Independent practice pp. 3–4 Extended practice p. 5 (Q. 1–2) Year 4 Printable student resources <ul style="list-style-type: none"> Car word problems (Activity sheet: Facts and figures) Rich task (Mastery task 4: Houses and homes) Rich task (Mastery task 7: From the mountains to the sea)
		Rounding whole numbers to the nearest thousand, hundred, or ten	Unit 1 Number structure Topic 3 Rounding numbers Year 3 Teacher resources <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 2 supporting BLMs Unit 1 Number structures and operations Topic 1 Place value Year 4 Student Workbook resources <ul style="list-style-type: none"> Extended practice p. 5 (Q. 3–5)
		Rounding tenths to the nearest whole number	Unit 10 New curriculum content Topic 1 Rounding tenths Year 4 Teacher resources <ul style="list-style-type: none"> Front of class material (Rounding tenths)
		Counting forwards and backwards in 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 25s and 50s from multiples of the counting unit	Unit 1 Number structures and operations Topic 1 Place value Year 4 Year 4 Teacher resources <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 4 supporting BLMs

Number	Number structures	Counting in 10s, 100s, and 1,000s from any whole number up to 10,000	<p><u>Unit 10 New curriculum content Topic 2 Skip counting by 10s, 100s and 1000s</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Front of class material (Skip counting by 10s, 100s and 1000s)
	Operations	Adding and subtracting up to four-digit numbers	<p><u>Unit 1 Number structure and operations Topic 2 Addition mental methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (Interactive: Addition mental methods) • Diagnostic assessment (Pre-test: Addition mental methods) • Formative assessment (Post-test: Addition mental methods) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 6 • Independent practice pp. 7–8 • Extended practice p. 9 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Japanese abacus (Activity sheet: Types of calculators) • Rich task (Mastery task 4: Houses and homes) <p><u>Unit 1 Number structure and operations Topic 3 Addition written methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–5) with 2 supporting BLMs • Introduce concept (Interactive: Jump method) • Introduce concept (Interactive: Vertical addition) • Diagnostic assessment (Pre-test: Addition written methods) • Formative assessment (Post-test: Addition written methods) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 10 (Jump method) • Independent practice p. 11 (Jump method) • Guided practice p. 12 (Vertical addition) • Independent practice p. 13 (Vertical addition) • Extended practice p. 14 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Snake word problems (Activity sheet: Our wonderful world) • Rich task (Mastery task 1: The school bell) <p><u>Unit 1 Number structure and operations Topic 4 Subtraction mental methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Diagnostic assessment (Pre-test: Subtraction mental methods) • Formative assessment (Post-test: Subtraction mental methods) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 15 • Independent practice pp. 16–17 • Extended practice p. 18 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Word problems (Activity sheet: Solving problems)

Number	Operations		
		Adding and subtracting up to four-digit numbers	<p><u>Unit 1 Number structure and operations Topic 4 Subtraction written methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–8) with 3 supporting BLMs • Introduce concept (<i>Interactive: Jump method / Vertical subtraction</i>) • Diagnostic assessment (<i>Pre-test: Subtraction written methods</i>) • Formative assessment (<i>Post-test: Subtraction written methods</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 19 (Jump method) • Independent practice p. 20 (Jump method) • Guided practice p. 21 (Vertical subtraction) • Independent practice p. 22 (Vertical subtraction) • Extended practice p. 23 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Word problems (<i>Activity sheet: Interesting world facts</i>)
		Memorising multiplication and corresponding division facts for 2s to 10s	<p><u>Unit 1 Number structures and operations Topic 7 Multiplication and division facts</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (<i>Interactive: Multiplication turnaround facts</i>) • Diagnostic assessment (<i>Pre-test: Multiplication and division facts</i>) • Formative assessment (<i>Post-test: Multiplication and division facts</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 28 • Independent practice pp. 29–30 • Extended practice p. 31 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Multiplication (<i>Activity sheet: Earning money</i>)
		Using place value and known and derived facts to multiply and divide mentally, including multiplying by 0 and 1 and dividing by 1	<p><u>Unit 1 Number structures and operations Topic 8 Multiplication and division mental methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–8) with 1 supporting BLM • Introduce concept (<i>Interactive: Place value</i>) • Diagnostic assessment (<i>Pre-test: Multiplication and division mental methods</i>) • Formative assessment (<i>Post-test: Multiplication and division mental methods</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 32 • Independent practice pp. 33–34 • Extended practice p. 35 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Word problems (<i>Activity sheet: Legs and feet</i>) • Rich task (<i>Mastery task 11: Fairy tales</i>)

Number	Operations	Multiplying two-digit and three-digit numbers by a one-digit number	<p><u>Unit 1 Number structures and operations Topic 9 Multiplication written methods</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 4 supporting BLMs Diagnostic assessment (Pre-test: Multiplication written methods) Formative assessment (Post-test: Multiplication written methods) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 36 Independent practice pp. 37–38 Extended practice p. 39 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Multiplication (Activity sheet: Atarangi wins the prize) Rich task (Mastery task 1: The school bell)
		Dividing up to a three-digit whole number by a one-digit divisor, with no remainder (e.g. $65 \div 5$)	<p><u>Unit 1 Number structures and operations Topic 7 Multiplication and division facts</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 3 supporting BLMs
Rational numbers		Reading, writing, and representing tenths as fractions and decimals	<p><u>Unit 2 Rational numbers Topic 1 Equivalent fractions and decimals</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM Diagnostic assessment (Pre-test: Equivalent fractions and decimals) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 42 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 3: Clocks) <p><u>Unit 3 Operations Topic 3 Decimal fractions</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 2 supporting BLMs Introduce concept (Interactive: Tenths and hundredths) Diagnostic assessment (Pre-test: Decimal fractions) Formative assessment (Post-test: Decimal fractions) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Writing/ordering decimals (Activity sheet: Working with decimals)
		Comparing and ordering tenths as fractions and decimals	<p><u>Unit 2 Rational numbers Topic 1 Equivalent fractions and decimals</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 43 (Q. 3–4)
		Dividing one- and two-digit whole numbers by 10 to make decimals and identify tenths	<p><u>Unit 2 Rational numbers Topic 1 Equivalent fractions and decimals</u></p> <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 43 (Q. 1–2)
		Multiplying decimal tenths by 10	<p><u>Unit 10 New curriculum content Topic 3 Multiplying decimals</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Multiplying decimals)

Number	Rational numbers		
		<p>Memorising and using the decimal equivalent of $\frac{1}{2}$ and fractions with denominators of 10</p> <p>Memorising and using the decimal equivalent of $\frac{1}{2}$ and fractions with denominators of 10</p>	<p><u>Unit 2 Rational numbers Topic 1 Equivalent fractions and decimals</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM Diagnostic assessment (Pre-test: Equivalent fractions and decimals) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 42 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 3: Clocks) <p><u>Unit 3 Operations Topic 3 Decimal fractions</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 2 supporting BLMs Introduce concept (Interactive: Tenths and hundredths) Diagnostic assessment (Pre-test: Decimal fractions) Formative assessment (Post-test: Decimal fractions) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Writing/ordering decimals (Activity sheet: Working with decimals)
		<p>Comparing and ordering fractions with the same numerator or same denominator</p> <p>Identifying when two fractions are equivalent, using representations</p>	<p><u>Unit 2 Rational numbers Topic 1 Equivalent fractions and decimals</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM Introduce concept (Interactive: Equivalent fractions) Diagnostic assessment (Pre-test: Decimal fractions) Formative assessment (Post-test: Equivalent fractions and decimals) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 40 Independent practice p. 41 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Word problems (Activity Sheet: Lily and her friends at the chocolate factory) Rich task (Mastery task 9: The sun and the moon)
		<p>Relating fractions, improper fractions, and mixed numbers to their position on a number line</p>	<p><u>Unit 2 Rational numbers Topic 2 Improper fractions and mixed numbers</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Improper fractions and mixed numbers) Diagnostic assessment (Pre-test: Improper fractions and mixed numbers) Formative assessment (Post-test: Improper fractions and mixed numbers) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 44 Independent practice pp. 45–46 Extended practice p. 47 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Pizza questions (Activity Sheet: More than a whole one)

Number	Rational numbers	<p>Finding a unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. 1/3 of 300)</p> <p>Finding the whole set or amount when given a unit fraction, using multiplication and division facts (e.g. 1/4 of a set is 7, what is the whole set?)</p>	<p>Unit 2 Rational numbers Topic 3 Fractions of quantities</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Diagnostic assessment (<i>Pre-test: Fractions of quantities</i>) Formative assessment (<i>Post-test: Fractions of quantities</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 48 Independent practice pp. 49–50 Extended practice p. 51 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Word problems (<i>Activity Sheet: Fractions of money</i>) Rich task (<i>Mastery task 8: Toys for babies</i>)
		<p>Adding and subtracting fractions with the same denominators, including beyond a whole (e.g. $\frac{3}{8} + \frac{3}{8} + \frac{3}{8} = \frac{9}{8} = 1\frac{1}{8}$)</p>	<p>Unit 2 Rational numbers Topic 4 Adding and subtracting fractions and decimals</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLMs Diagnostic assessment (<i>Pre-test: Adding and subtracting fractions and decimals</i>) Formative assessment (<i>Post-test: Adding and subtracting fractions and decimals</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 52 Independent practice pp. 53 Extended practice p. 55 (Q. 1–3) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Adding fractions (<i>Activity Sheet: Race to the top</i>) <p>Unit 3 Rational numbers Topic 2 Equations with fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 34 Independent practice p. 35 Extended practice p. 37 (Q. 2)
		<p>Adding and subtracting decimals to one decimal place (e.g. 1.3 + 0.2 = 1.5)</p>	<p>Unit 2 Rational numbers Topic 4 Adding and subtracting fractions and decimals</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLMs <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 54 Extended practice p. 55 (Q. 4)
		<p>Using known multiplication and division facts to scale a quantity (e.g. to double or halve a recipe)</p>	<p>Unit 1 Number structures and operations Topic 8 Multiplication and division mental methods</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–8) with 1 supporting BLM
Number	Financial maths	<p>Representing amounts of currency using different combinations of denominations (e.g. making \$5 and 80 cents in multiple ways using play money)</p>	<p>Unit 3 Financial mathematics Topic 1 Money</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 2 supporting BLMs Introduce concept (<i>Interactive: Money</i>) Diagnostic assessment (<i>Pre-test: Money</i>) Formative assessment (<i>Post-test: Money</i>) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 56 Independent practice p. 57 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Pounds, shillings and pennies (<i>Activity sheet: Money around the world</i>)

<p>Number</p>	<p>Financial maths</p>	<p>Calculating the total cost of several items costing whole-dollar amounts and with different prices, or of multiples of the same item, including giving change</p>	<p><u>Unit 3 Financial mathematics Topic 1 Money</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Session 3) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 58 • Extended practice p. 59 (Q. 3–4) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Rich task (Mastery task 2: Gardening as a hobby) • Rich task (Mastery task 6: What is football?) • Rich task (Mastery task 12: Let's go fly a kite) • Rich task (Mastery task 14: Fruit juice)
<p>Algebra</p>	<p>Equations and relationships</p>	<p>Checking the truth of number sentences and completing open number sentences involving addition and subtraction (e.g. $8205 - 4721 = 3484$, true or false?; $4200 - _ = 4001$)</p>	<p><u>Unit 4 Patterns and Algebra Topic 2 Number sentences</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) • Introduce concept (Interactive: Number sentences) • Diagnostic assessment (Pre-test: Number sentences) • Formative assessment (Post-test: Number sentences) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 64 • Independent practice pp. 65–66 • Extended practice p. 67
		<p>Checking the truth of number sentences and completing open number sentences involving multiplication and division (e.g. $11 \times 7 = 78$, true or false?; $_ \div 10 = 12$).</p>	<p><u>Unit 4 Patterns and Algebra Topic 2 Number sentences</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) • Diagnostic assessment (Pre-test: Number sentences) • Formative assessment (Post-test: Number sentences) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 64 • Independent practice pp. 65–66 • Extended practice p. 67 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Word problems (Activity sheet: Tom's toy truck company)
		<p>Recognising, continuing, creating, and describing growing patterns (including numerical and non-numerical patterns) that change by adding, subtracting, or multiplying by a constant whole number (e.g. 5, 7, 9, 11, ...; 3, 6, 12, 24, ...)</p>	<p><u>Unit 4 Patterns and Algebra Topic 1 Number patterns</u> Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (Interactive: Number patterns) • Diagnostic assessment (Pre-test: Number patterns) • Formative assessment (Post-test: Number patterns) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 60 • Independent practice pp. 61–62 • Extended practice p. 63 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Line patterns using numbers (Activity sheet: Using numbers to make patterns) • Rich task (Mastery task 5: The first boats) • Rich task (Mastery task 11: Fairy tales)

Measurement	Measuring	Using familiar objects (e.g. body parts) and experiences (e.g. time taken to travel to school, the temperature outside) to create estimation benchmarks	<p>Unit 5 Using units of measurement Topic 1 Length and area</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 69 (Q.1)
		Using the appropriate tool for measuring length, mass (weight), and capacity in mixed units (e.g. 1 m and 23 cm, 10 kg and 3 g, 2 L and 500 mL)	<p>Unit 5 Using units of measurement Topic 1 Length and area</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 2 supporting BLMs Introduce concept (Interactive: Length and area) Diagnostic assessment (Pre-test: Length and area) Formative assessment (Post-test: Length and area) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 68 Independent practice pp. 69 (Q. 2–3) Extended practice p. 72 (Q. 1) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Comparing lengths (Activity sheet: Our bones) Rich task (Mastery task 7: From the mountains to the sea) <p>Unit 5 Using units of measurement Topic 2 Volume and capacity</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 5–7) Introduce concept (Interactive: Volume and capacity) Diagnostic assessment (Pre-test: Volume and capacity) Formative assessment (Post-test: Volume and capacity) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 75 Independent practice p. 76 Extended practice p. 77 (Q. 3) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Capacity (Activity sheet: How much do they really hold?) Rich task (Mastery task 2: Gardening as a hobby) Rich task (Mastery task 4: Houses and homes) Rich task (Mastery task 10: Doors) Rich task (Mastery task 14: Fruit juice) <p>Unit 5 Using units of measurement Topic 3 Mass</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Mass) Diagnostic assessment (Pre-test: Mass) Formative assessment (Post-test: Mass) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 78 Independent practice pp. 79–80 Extended practice p. 81 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Mass (Activity sheet: Animals on land and in the sea)

Measurement	Measuring	Measuring temperature in degrees Celsius	<p><u>Unit 6 Using units of measurement Topic 5 Temperature</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept: (Interactive: Temperature) Diagnostic assessment (Pre-test: Temperature) Formative assessment (Post-test: Temperature) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 76 Independent practice pp. 77–78 Extended practice p. 79 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Temperature (Activity sheet: Keeping it cool and hot)
		Measuring the perimeter of polygons using metric units (mm, cm, and m)	<p><u>Unit 5 Using units of measurement Topic 1 Length and area</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 68 (Q. 2) <p><u>Unit 6 Using units of measurement Topic 1 Length</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) Introduce concept: (Interactive: Length) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 62 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 6: What is football?)
		<p>Measuring the areas of irregular shapes covered with squares and half squares</p> <p>Calculating the areas of rectangular figures (including squares) using multiplication of side lengths</p>	<p><u>Unit 5 Using units of measurement Topic 1 Length and area</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 4–7) with 1 supporting BLM Introduce concept (Interactive: Length and area) Diagnostic assessment (Pre-test: Length and area) Formative assessment (Post-test: Length and area) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 70 Independent practice p. 71 Extended practice p. 72 (Q. 2–3) <p><u>Unit 6 Using units of measurement Topic 2 Area</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Introduce concept: (Interactive: Area) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 67

Measurement	Measuring	Measuring the volumes of rectangular prisms (cuboids) by filling them with identical 3D blocks	<p><u>Unit 5 Using units of measurement Topic 2 Volume and capacity</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–4) Introduce concept (Interactive: Volume and capacity) Diagnostic assessment (Pre-test: Volume and capacity) Formative assessment (Post-test: Volume and capacity) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 73 Independent practice p. 74 Extended practice p. 77 (Q. 1–2) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Volume (Activity sheet: Boxes)
		Estimating the size of angles by comparing them to 90, 180, and 360 degrees	<p><u>Unit 6 Geometry and spatial reasoning Topic 3 Angles</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Angles) Diagnostic assessment (Pre-test: Angles) Formative assessment (Post-test: Angles) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 94 Independent practice pp. 95–96 Extended practice p. 97 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Right angles (Activity sheet: Looking at angles) Rich task (Mastery task 10: Doors)
		Telling the time on analogue and digital clocks to the nearest minute	<p><u>Unit 5 Using units of measurement Topic 4 Time</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 2 supporting BLMs Introduce concept (Interactive: Analog and digital time) Diagnostic assessment (Pre-test: Time) Formative assessment (Post-test: Time) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 82 Independent practice pp. 83
		Measuring duration in hours, minutes, and seconds, including mixed time units (e.g. 1h and 42mins, 3mins and 21s)	<p><u>Unit 5 Using units of measurement Topic 4 Time</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 84 Extended practice p. 85 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Duration (Activity sheet: Building Ryan's cubby house) Rich task (Mastery task 1: The school bell) Rich task (Mastery task 3: Clocks)
		Finding equivalent durations of time using different units (e.g. 3 weeks is 21 days; 90 seconds = 1.5 minutes; 48 hours = 2 days)	<p><u>Unit 6 Using units of measurement Topic 6 Time</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p.80 Independent practice p. 81

Geometry	Shapes	Identifying, classifying, and describing the attributes of regular and irregular polygons of up to 12 sides, using edges, vertices, and angles	<p>Unit 6 Geometry and spatial reasoning Topic 1 2D shapes</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: 2D shapes) Diagnostic assessment (Pre-test: 2D shapes) Formative assessment (Post-test: 2D shapes) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 86 Independent practice pp. 87–88 Extended practice p. 89 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Shapes in art (Activity sheet: Abstract art) Rich task (Mastery task 12: Let's go fly a kite)
		Identifying the number of lines of symmetry in 2D shapes	<p>Unit 6 Geometry and spatial reasoning Topic 4 Symmetry</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLMs Introduce concept (Interactive: Symmetry) Diagnostic assessment (Pre-test: Symmetry) Formative assessment (Post-test: Symmetry) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 98 Independent practice p. 99 Extended practice p. 101 (Q. 1) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Symmetry in real life (Activity sheet: A world of symmetry)
	Spatial reasoning	Visualising 3D shapes and connecting them with 2D diagrams, verbal descriptions, and the same shapes drawn from different perspectives	<p>Unit 6 Geometry and spatial reasoning Topic 2 3D shapes</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Introduce concept (Interactive: 3D shapes) Diagnostic assessment (Pre-test: 3D shapes) Formative assessment (Post-test: 3D shapes) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 90 Independent practice pp. 91–92 Extended practice p. 93 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> 3D shapes in buildings (Activity sheet: The built environment) Rich task (Mastery task 8: Toys for babies) <p>Unit 7 Shapes Topic 2 3D shapes</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 89 (Q. 2)-90

Geometry	Spatial reasoning	Performing one-step transformations (reflections, translations, rotations) on 2D shapes	<p><u>Unit 6 Geometry and spatial reasoning Topic 4 Symmetry</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–3) with 1 supporting BLM <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 100 Extended practice p. 101 (Q. 2) <p><u>Unit 6 Geometry and spatial reasoning Topic 5 Flips, turns and slides</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–6) with 1 supporting BLM Introduce concept (Interactive: Flips, turns and slides) Diagnostic assessment (Pre-test: Flips, turns and slides) Formative assessment (Post-test: Flips, turns and slides) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 102 Independent practice pp. 103–104 Extended practice p. 105 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Transformations (Activity sheet: Making patterns)
	Pathways	Use alphanumeric and general grid references to identify regions and plot positions on a grid map	<p><u>Unit 7 Pathways Topic 1 Grids and maps</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Grids and maps) Diagnostic assessment (Pre-test: Grids and maps) Formative assessment (Post-test: Grids and maps) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 106 Independent practice pp. 107–108 Extended practice p. 109 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> New Zealand map (Activity sheet: Finding your way)
Statistics	Developing knowledge from data	Collecting numerical data, and, if needed, rounding to an appropriate unit or part of a unit, based on the context (e.g. How many skips can we do in 30 seconds? How long does it take us to run 1000 m?)	<p><u>Unit 8 Statistics Topic 1 Collecting data</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Collecting data) Diagnostic assessment (Pre-test: Collecting data) Formative assessment (Post-test: Collecting data) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 110 Independent practice pp. 111–112 Extended practice p. 113 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Class investigation (Activity sheet: ABC of names)
	Visualisation of data	Creating dot-plot or bar-graph data visualisations	<p><u>Unit 8 Statistics Topic 2 Graphs</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–3) with 3 supporting BLMs <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 115 Extended practice p. 117 (Q.1 c) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 1: The school bell)

<p>Statistics</p>	<p>Interpretation of data</p>	<p>Answering questions about the frequency of a particular value in dot plots</p> <p>Answering questions about individual values in a dot plot, while referring to the context</p> <p>Interpreting data visualisations</p> <p>Distinguishing between when to use a particular value or the frequency for a given value when answering questions about dot plots (e.g. How many pets does the person with the most pets have? What's the most common number of pets that anyone has?)</p>	<p><u>Unit 8 Statistics Topic 2 Graphs</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Session 3) with 2 supporting BLMs • Introduce concept (Interactive: Graphs) • Diagnostic assessment (Pre-test: Graphs) • Formative assessment (Post-test: Graphs) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 114 • Independent practice p. 116 (Q. 3) <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Interpreting tables (Activity sheet: Boys, boys, boys) <p><u>Unit 8 Statistics Topic 3 Interpreting data</u></p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 3 supporting BLMs • Introduce concept (Interactive: Interpreting data) • Diagnostic assessment (Pre-test: Interpreting data) • Formative assessment (Post-test: Interpreting data) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 118 • Independent practice pp. 119–120 <p>Year 4 Printable student resources</p> <ul style="list-style-type: none"> • Interpreting tables (Activity sheet: Top 20)
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Year 5

Strand	Element	Practices The skills, strategies, and applications to teach	Relevant teacher and student resources in <i>Mathematics and Statistics for Aotearoa New Zealand</i>
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 up to 1,000,000 and representing them using base 10 structure	<p><u>Unit 1 Number structure Topic 1 Place value</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–6) with 3 supporting BLMs Introduce concept (Interactive: Place value) Diagnostic assessment (Pre-test: Place value) Formative assessment (Post-test: Place value) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 2 Independent practice pp. 3–4 Extended practice p. 5 (Q. 6–7) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Ordering numbers (Activity sheet: Number facts and fun) Rich task (Mastery task 3: Signs and symbols) Rich task (Mastery task 9: At the beach)
		Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 10	<p><u>Unit 2 Operations Topic 8 Factors, multiples and square numbers</u> Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 3 supporting BLMs Introduce concept (Interactive: Factors) Introduce concept (Interactive: Factors and multiples) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 (Q. 1) Independent practice pp. 39
		Rounding whole numbers to the nearest hundred thousand, ten thousand, thousand, hundred, or ten	<p><u>Unit 1 Number structure Topic 1 Place value</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 5 (Q. 1–5)
		Rounding tenths or hundredths to the nearest whole number	<p><u>Unit 3 Operations Topic 3 Decimal fractions</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 3–4) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 41 (Q. 8)
		Counting forwards and backwards in 11s and 12s from multiples of the counting unit	<p><u>Unit 11 New curriculum content Topic 1 Skip counting by 11s and 12s</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Skip counting by 11s and 12s)
		Counting in 1,000s, 10,000s, and 100,000s from any whole number up to 100,000	<p><u>Unit 11 New curriculum content Topic 2 Skip counting by 1,000s, 10,000s and 100,000s</u> Year 5 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Skip counting by 1,000s, 10,000s and 100,000s)

		Counting backwards through 0 to include negative whole numbers	<p>Unit 11 New curriculum content Topic 3 Counting backwards through zero</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Front of class material (Counting backwards through zero)
Number	Operations	Adding and subtracting increasingly large whole numbers	<p>Unit 2 Operations Topic 1 Addition methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–8) with 3 supporting BLMs • Introduce concept (Interactive: Addition written methods) • Diagnostic assessment (Pre-test: Addition methods) • Formative assessment (Post-test: Addition methods) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 6 (Split method) • Independent practice p. 7 (Split method) • Guided practice p. 8 (Vertical addition) • Independent practice p. 9 (Vertical addition) • Extended practice p. 10 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Adding large numbers (Activity sheet: Working with large numbers) <p>Unit 2 Operations Topic 2 Subtraction methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–5) with 3 supporting BLMs • Introduce concept (Interactive: Subtraction written methods) • Diagnostic assessment (Pre-test: Subtraction methods) • Formative assessment (Post-test: Subtraction methods) <p>Year 5 Student resources</p> <ul style="list-style-type: none"> • Guided practice p. 11 (Split method) • Independent practice p. 12 (Split method) • Guided practice p. 13 (Vertical subtraction) • Independent practice p. 14 (Vertical subtraction) • Extended practice p. 15 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Vertical subtraction (Activity sheet: Using your subtraction skills) • Rich task (Mastery task 7: The games we play)
		Memorising multiplication and corresponding division facts for 2s to 12s	<p>Unit 2 Operations Topic 3 Multiplication and division facts</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–5) with 2 supporting BLMs • Introduce concept (Interactive: Turnaround facts) • Diagnostic assessment (Pre-test: Multiplication and Division facts) • Formative assessment (Post-test: Multiplication and Division facts) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 16 • Independent practice pp. 17–18 • Extended practice p. 19

Number	Operations		
		Applying mental strategies, number facts, derived facts, factor pairs, and multiples to multiply and divide increasingly large numbers	<p>Unit 2 Operations Topic 4 Multiplication methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–7) with 3 supporting BLMs Introduce concept (Interactive: Multiplication written strategies) Diagnostic assessment (Pre-test: Multiplication methods) Formative assessment (Post-test: Multiplication methods) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 20 (Long multiplication) Independent practice p. 21 (Long multiplication) Guided practice p. 22 (Short multiplication) Independent practice pp. 23–24 (Short multiplication) Extended practice p. 25 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Multiplication methods (Activity sheet: Using your multiplication skills) <p>Unit 2 Operations Topic 5 Division methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–3) with 3 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 26 Independent practice pp. 27–28 Extended practice p. 29
		Multiplying three-digit and four-digit numbers by a one-digit number and multiplying two two-digit numbers	<p>Unit 2 Operations Topic 4 Multiplication methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 6) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 23–24 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 1: Dogs as pets) <p>Unit 2 Operations Topic 6 Multiplication written methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 6) Introduce concept (Interactive: Contracted multiplication) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 30 Independent practice p. 32 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Multiplication word problems (Activity sheet: Amazing multiplication facts)
		Dividing up to four-digit whole numbers by a one-digit divisor, with a remainder (e.g. remainder 2)	<p>Unit 2 Operations Topic 5 Division methods</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 4–6) with 2 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 27 (Q.3) Extended practice p. 29 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Division methods (Activity sheet: Share and share alike)

Number	Rational numbers	Reading, writing, and representing tenths and hundredths as fractions and decimals	<p>Unit 3 Rational numbers Topic 1 Equivalent fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 5) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 33 (Q. 1–2) <p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 2 supporting BLMs Introduce concept (<i>Interactive: Tenths and hundredths</i>) Diagnostic assessment (<i>Pre-test: Decimal fractions</i>) Formative assessment (<i>Post-test: Decimal fractions</i>) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 Independent practice p. 39 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Writing/ordering decimals (<i>Activity sheet: Working with decimals</i>)
		Comparing tenths and hundredths as fractions or decimals	<p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 39 (Q. 1)
		Comparing and ordering numbers with up to two decimal places (e.g. $0.12 < 0.2$, $3.55 < 3.84$)	<p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 42 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Writing/ordering decimals (<i>Activity sheet: Working with decimals</i>)
		Dividing one-, and two-digit whole numbers by 10 or 100 to make decimals and identify tenths and hundredths places	<p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 3–4) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 (Q. 3)
		Comparing fractions where one denominator is a multiple of the other	<p>Unit 3 Rational numbers Topic 1 Equivalent fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) Introduce concept (<i>Interactive: Equivalent fractions</i>) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 31 (Q. 2) Extended practice p.33 (Q. 4) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Comparing unit fractions (<i>Activity sheet: Half of a half</i>) <p>Unit 3 Rational numbers Topic 1 Comparing, ordering and simplifying fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 3 supporting BLMs Introduce concept (<i>Interactive: Comparing and ordering fractions</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 44 (Q. 2–3)-45 (Q. 4–6)

Number	Rational numbers		
		Recognising families of equivalent fractions	<p>Unit 3 Rational numbers Topic 1 Equivalent fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 2 supporting BLM Introduce concept: (<i>Interactive: Equivalent fractions</i>) Diagnostic assessment (<i>Pre-test: Equivalent fractions</i>) Formative assessment (<i>Post-test: Equivalent fractions</i>) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 30 Independent practice p. 31 (Q. 1) and p. 32 Extended practice p. 33 (Q. 1–3)
		Recognising equivalent mixed numbers and improper fractions	<p>Unit 3 Rational numbers Topic 2 Equations with fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 3 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 34 Independent practice p. 35 Extended practice p. 37 (Q. 1–2) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Improper fractions (<i>Activity sheet: More than a whole one</i>)
		Memorising and using decimal equivalents of and fractions with denominators of 10 or 100	<p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38
		Finding common percentages (10%, 25%, 50%) of whole numbers	<p>Unit 3 Rational numbers Topic 5 Percentages</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 63 (Q. 1–2) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Discounts (<i>Activity sheet: Using percentages</i>)
		Finding the whole (100%) when given 25% or 50%	<p>Unit 11 New curriculum content Topic 4 Finding the whole from a percentage</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (<i>Finding the whole from a percentage</i>)
		Converting common percentages (10%, 25%, 50%) to fractions and decimals	<p>Unit 3 Rational numbers Topic 5 Percentages</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 3 supporting BLMs Introduce concept (<i>Interactive: Matching fractions, decimals and percentages</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 60 Independent practice pp. 61–62
		Finding a non-unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. $\frac{2}{3}$ of 24)	<p>Unit 3 Rational numbers Topic 2 Equations with fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 3–4) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 36 Extended practice p. 37 (Q. 3)

Number	Rational numbers	Multiplying numbers with up to two decimal places by 10 and 100	<p>Unit 3 Rational numbers Topic 3 Decimal fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLM Introduce concept (Interactive: Multiplying and dividing decimals) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 53–54
		Finding a whole set from a fractional part of the set (e.g. if 8 is $\frac{2}{5}$ of a set, what is the whole set?)	<p>Unit 3 Rational numbers Topic 2 Equations with fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 3–4) with 1 supporting BLM
		Adding and subtracting fractions with the same denominator or when one denominator is a multiple of the other, including improper fractions (e.g. $\frac{2}{3} + \frac{1}{9} = \frac{7}{9}$)	<p>Unit 3 Rational numbers Topic 2 Equations with fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM Diagnostic assessment (Pre-test: Equations with fractions) Formative assessment (Post-test: Equations with fractions) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 34 Independent practice p. 35 Extended practice p. 37 (Q. 2) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Adding and Subtracting fractions using visuals (Activity sheet: Adding and subtracting fractions) <p>Unit 3 Rational numbers Topic 2 Adding and subtracting fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 51 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Denominator is a multiple of the other (Activity sheet: Fraction jigsaw)
		Adding and subtracting decimals to two decimal places (e.g. $1.31 + 0.22 = 1.53$)	<p>Unit 3 Operations Topic 3 Decimal fractions</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 40–41
Financial maths	Calculating the total cost of items costing dollars and cents and the change from the nearest ten dollars	<p>Unit 4 Financial mathematics Topic 1 Money and money calculations</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 3 supporting BLMs Diagnostic assessment (Pre-test: Money calculations) Formative assessment (Post-test: Money calculations) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 43 (Q. 2) Independent practice pp. 44–45 (Q. 5–6) Extended practice p. 46 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 2: All sorts of bags) Rich task (Mastery task 8: At the supermarket) 	

Number	Financial maths	Representing currency values of mixed dollars and cents using decimal notation	<p>Unit 11 New curriculum content Topic 5 Using decimals to represent currency</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Front of class material (Using decimals to represent currency)
		Rounding money amounts to the nearest dollar	<p>Unit 4 Financial mathematics Topic 1 Money and money calculations</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Session 3) with 1 supporting BLM • Introduce concept: (Interactive: Money calculations) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 43 • Independent practice p. 45 (Q. 4)
Algebra	Equations and relationships	Checking the truth of number sentences and completing open number sentences (e.g. $999,999 - _ = 899,999$)	<p>Unit 5 Algebra Topic 2 Number operations and properties</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–7) • Diagnostic assessment (Pre-test: Number operations and properties) • Formative assessment (Post-test: Number operations and properties) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 52 • Independent practice pp. 53–54 <p>Unit 5 Algebra Topic 3 Problem solving</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) • Diagnostic assessment (Pre-test: Problem solving) • Formative assessment (Post-test: Problem solving) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice pp. 57 (Q. 2) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Problem solving (Activity sheet: Mystery numbers)
		Completing number sentences that involve addition and subtraction by using equality (=) and inequality (<, >) symbols (e.g. $2,456 + 203,938$; $3,456 + 231,930$; $2,456 \times 2$; $1,228 \times 4$)	<p>Unit 11 New curriculum content Topic 6 Completing number sentences</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Front of class material (Completing number sentences)
		Recognising, continuing, creating, and describing growing patterns that change by a constant amount (e.g. 3, 4.5, 6, 7.5 ...)	<p>Unit 5 Algebra Topic 1 Number patterns</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–6) with 3 supporting BLMs • Introduce concept: (Interactive: Number patterns) • Diagnostic assessment (Pre-test: Number patterns) • Formative assessment (Post-test: Number patterns) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 47 • Independent practice pp. 48–49 • Extended practice p. 51 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Number machines (Activity sheet: Patterns with numbers)

<p>Measurement</p>	<p>Measuring</p>	<p>Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)</p>	<p>Unit 6 Using units of measurement Topic 1 Length</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Diagnostic assessment (Pre-test: Length) Formative assessment (Post-test: Length) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 60 Independent practice p. 61 (Q. 1–2) Extended practice p. 63 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Length (Activity sheet: The importance of accuracy) <p>Unit 6 Using units of measurement Topic 3 Volume and capacity</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 1–4) with 1 supporting BLM Introduce concept: (Interactive: Volume and capacity) Diagnostic assessment (Pre-test: Volume and capacity) Formative assessment (Post-test: Volume and capacity) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 68 Independent practice p. 70 Extended practice p. 71 (Q. 1) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 5: In the kitchen) Rich task (Mastery task 6: The food we eat) <p>Unit 6 Using units of measurement Topic 4 Mass</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Introduce concept: (Interactive: Mass) Diagnostic assessment (Pre-test: Mass) Formative assessment (Post-test: Mass) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 72 Independent practice pp. 73–74 Extended practice p. 75 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 2: All sorts of bags) <p>Unit 6 Using units of measurement Topic 5 Temperature</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept: (Interactive: Temperature) Diagnostic assessment (Pre-test: Temperature) Formative assessment (Post-test: Temperature) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 76 Independent practice pp. 77–78 Extended practice p. 79 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Temperature (Activity sheet: Keeping it cool and hot) Rich task (Mastery task 5: In the kitchen)
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Measurement	Measuring	Converting metric units of length (m and cm)	<p><u>Unit 6 Using units of measurement Topic 1 Length</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 61 (Q. 3)
		Classifying and constructing angles up to 180°, using a protractor	<p><u>Unit 7 Shapes and spatial reasoning Topic 3 Angles</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Introduce concept (Interactive: Angles) Diagnostic assessment (Pre-test: Angles) Formative assessment (Post-test: Angles) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 107 Independent practice pp. 108–109
		Describing and classifying angles and turns using the terms acute, right, obtuse, straight, and reflex	<p><u>Unit 7 Shapes Topic 3 Angles</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–6) Introduce concept: (Interactive: Angles) Diagnostic assessment (Pre-test: Angles) Formative assessment (Post-test: Angles) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 93 Independent practice pp. 94–95 Extended practice p. 96 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Angles (Activity sheet: Angles in sport)
		Calculating the perimeters of regular polygons and other 2D shapes with straight sides	<p><u>Unit 6 Using units of measurement Topic 1 Length</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) Introduce concept: (Interactive: Length) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 62 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Length (Activity sheet: The importance of accuracy) Rich task (Mastery task 11: Gardens)
		Approximating the areas of irregular shapes covered with squares, half squares, and partial squares	<p><u>Unit 6 Using units of measurement Topic 2 Area</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–3) with 1 supporting BLM Diagnostic assessment (Pre-test: Area) Formative assessment (Post-test: Area) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 66 (Q. 3)
		Recognising that shapes with the same area can have different perimeters, and vice versa	<p><u>Unit 11 New curriculum content Topic 7 Comparing the perimeter and area of different shapes</u></p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Comparing the perimeter and area of different shapes)

Measurement	Measuring	Calculating the areas of rectangles (including squares) using multiplication of side lengths	<p>Unit 6 Using units of measurement Topic 2 Area</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Introduce concept: (Interactive: Area) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 64 • Independent practice pp. 65–66 • Extended practice p. 67 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Perimeter (Activity sheet: An even shorter shortcut) • Rich task (Mastery task 5: In the kitchen) • Rich task (Mastery task 10: Optical illusions)
		Measuring the volumes of rectangular prisms (cuboids) filled with centicubes by determining the number of cubes in each layer and then multiplying by the number of total layers	<p>Unit 6 Using units of measurement Topic 3 Volume and Capacity</p> <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 69 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Cuboid volume (Activity sheet: Volume of a rectangular prism)
		Telling the time on analogue and digital clocks	<p>Unit 6 Using units of measurement Topic 6 Time</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 2–4) with 1 supporting BLM • Diagnostic assessment (Pre-test: Time) • Formative assessment (Post-test: Time) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 82 (Q. 4–6) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Time (Activity sheet: Why do we have am and pm times?) <p>Unit 5 Using units of measurement Topic 4 Time</p> <p>Year 4 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Session 2) with 2 supporting BLMs • Introduce concept (Interactive: Analog and digital time) • Diagnostic assessment (Pre-test: Time) • Formative assessment (Post-test: Time) <p>Year 4 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 82 • Independent practice pp. 83
		Finding the duration of periods of time involving a.m. and p.m. notation and 24-hour time	<p>Unit 6 Using units of measurement Topic 6 Time</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 2–4) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 82 (Q. 7) • Extended practice p. 83 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> • Rich task (Mastery task 1: Dogs as pets) • Rich task (Mastery task 9: At the beach)

Geometry	Shapes	Identifying, classifying, and describing the attributes of prisms, using cross sections, faces, edges, and vertices	<p>Unit 7 Shapes Topic 2 3D shapes</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2 and 4) with 1 supporting BLM Introduce concept: (Interactive: 3D Shapes) Diagnostic assessment (Pre-test: 3D Shapes) Formative assessment (Post-test: 3D Shapes) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 88 Independent practice pp. 89, 91 (Q. 7) Extended practice p. 92 (Q. 1) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 8: At the supermarket)
		Identifying parallel and perpendicular lines, including those forming the sides of polygons	<p>Unit 7 Shapes Topic 1 2D Shapes</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 85
	Spatial reasoning	Connecting 3D shapes with nets	<p>Unit 7 Shapes Topic 2 3D shapes</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 4) with 2 supporting BLMs <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 91 (Q. 5–6) <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Nets (Activity sheet: Packaging)
		Describing the transformations performed (reflections, translations, rotations) on 2D shapes	<p>Unit 11 New curriculum content Topic 8 Shape transformations</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Shape transformations)
	Pathways	Interpreting and creating grid maps to plot positions and pathways, using grid references and directional language, including the four main compass points	<p>Unit 8 Pathways Topic 1 Scales and maps</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept: (Interactive: Scales and maps) Diagnostic assessment (Pre-test: Scales and maps) Formative assessment (Post-test: Scales and maps) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 99 Extended practice p. 100 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Grid maps (Activity sheet: Using grid references) Rich task (Mastery task 4: Finding your way)
Statistics	Developing knowledge from data	<p>Collecting continuous numerical data by taking measurements, and then applying specified rounding rules</p> <p>Collecting bivariate data with two categorical variables (e.g. what students in our class do at lunch time, and their gender)</p>	<p>Unit 9 Statistics Topic 1 Collecting data</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 1–5) with 2 supporting BLMs
	Visualisation of data	<p>Creating tables for continuous numerical data, using groupings (e.g. 0–0.99, 1–1.99, 2–2.99)</p> <p>Creating clustered bar graphs for paired categorical data</p>	<p>Unit 9 Statistics Topic 2 Displaying and interpreting data</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 1–2) with 2 supporting BLMs

<p>Statistics</p>	<p>Interpretation of data</p>	<p>Answering questions about the frequency of particular values or groups of values from a table for continuous numerical data</p> <p>Answering questions about bivariate data in which a specific category in one variable appears more frequently than a specific category in another variable</p> <p>Interpreting data visualisations</p>	<p>Unit 9 Statistics Topic 2 Displaying and interpreting data</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3–5) with 2 supporting BLMs Introduce concept: (Interactive: Displaying and interpreting data) Diagnostic assessment (Pre-test: Displaying and interpreting data) Formative assessment (Post-test: Displaying and interpreting data) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 106 Independent practice pp. 107–108 Extended practice p. 109 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Interpreting data (Activity sheet: What's in a name?) Rich task (Mastery task 1: Dogs as pets)
<p>Probability</p>	<p>Experimental probability</p>	<p>Conducting repeated chance experiments or games, identifying the outcomes, and describing differences between them using likelihood vocabulary</p>	<p>Unit 10 Probability Topic 1 Chance</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–3) Formative assessment (Post-test: Chance) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 110 Independent practice pp. 111–112 Extended practice p. 113 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Chances: (Activity sheet – What are the chances?) Rich task (Mastery task 7: The games we play) <p>Unit 10 Probability Topic 2 Chance experiments</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–3) with 3 supporting BLMs Introduce concept: (Interactive: Chance experiments) Diagnostic assessment (Pre-test: Chance experiments) Formative assessment (Post-test: Chance experiments) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 114 Independent practice pp. 115–116 Extended practice p. 117 <p>Year 5 Printable student resources</p> <ul style="list-style-type: none"> Chance experiments: (Activity sheet: It's not fair) Rich task (Mastery task 13: Ben the magician)
		<p>Identifying the likelihood of an everyday event as being impossible, unlikely, even-chance, likely, or certain (e.g. the event 'the sun will rise tomorrow' is certain)</p>	<p>Unit 10 Probability Topic 1 Chance</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) Introduce concept: (Interactive: Chance events) Diagnostic assessment (Pre-test: Chance) Formative assessment (Post-test: Chance)
		<p>Placing everyday events on a number line according to their likelihood (e.g. placing the event 'you will eat something later today' between $\frac{1}{2}$ and 1 as 'likely' or 'very likely')</p>	<p>Unit 10 Probability Topic 1 Chance</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 131 (Q. 2) Independent practice p. 132 (Q. 2)

Year 6

Strand	Element	Practices The skills, strategies, and applications to teach	Relevant teacher and student resources in <i>Mathematics and Statistics for Aotearoa New Zealand</i>
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 any whole number and representing them using base 10 structure	<p><u>Unit 1 Number structure Topic 1 Place value</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 4 supporting BLMs Introduce concept (Interactive: Place Value to 1 000 000) Diagnostic assessment (Pre-test: Place Value) Formative assessment (Post-test: Place value) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 2 Independent practice pp. 3–5 Extended practice p. 7 (Q. 1) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 6: Too much rain?)
		Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 12	<p><u>Unit 2 Operations Topic 8 Factors, multiples and square numbers</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 3 supporting BLMs Introduce concept (Interactive: Factors) Introduce concept (Interactive: Factors and multiples) Diagnostic assessment (Pre-test: Factors, multiples and square numbers) Formative assessment (Post-test: Factors, multiples and square numbers) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 38 (Q. 1) Independent practice pp. 39 Extended practice p. 42
		Counting forwards and backwards with positive whole numbers, including working with negative numbers (e.g. starting at -6 and counting backwards in 2s)	<p><u>Unit 11 New curriculum content Topic 1 Skip counting across negative and positive numbers</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Skip counting across negative and positive numbers)
		Recognising square and cube numbers and the notation for squared (2) and cubed (3)	<p><u>Unit 2 Operations Topic 8 Factors, multiples and square numbers</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 2 supporting BLM Introduce concept (Interactive: Square numbers) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 41 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Index notation (Activity sheet: Number operations)
		Memorising the square numbers to 144 and cube numbers to 125	<p><u>Unit 2 Operations Topic 8 Factors, multiples and square numbers</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 2 supporting BLM Introduce concept (Interactive: Square numbers) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 41 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Index notation (Activity sheet: Number operations)

Number	Number structures	<p>Rounding hundredths to the nearest whole number or tenth</p> <p>Rounding whole numbers to the nearest million, hundred thousand, ten thousand, thousand, hundred, or ten</p>	<p>Unit 1 Number structure Topic 1 Place value</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 6 Extended practice p. 7 (Q. 2–3) <p>Unit 2 Operations Topic 1 Addition mental methods</p> <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 11
Operations	Calculating expressions using the order of operations		<p>Unit 2 Operations Topic 8 Order of operations</p> <p>Year 7 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Introduce concept (<i>Interactive: Order of operations</i>) Diagnostic assessment (<i>Pre-test: Order of operations</i>) Formative assessment (<i>Post-test: Order of operations</i>) <p>Year 7 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 44 Independent practice pp. 45–46 Extended practice p. 47 <p>Year 7 Printable student resources</p> <ul style="list-style-type: none"> Order of operations (<i>Activity sheet: Take my order</i>)
	Adding and subtracting any whole numbers		<p>Unit 2 Operations Topic 1 Addition mental methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (<i>Interactive: Mental addition methods</i>) Diagnostic assessment (<i>Pre-test: Addition mental methods</i>) Formative assessment (<i>Post-test: Addition mental methods</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 8 Independent practice pp. 9–10 Extended practice p. 11 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Which strategy to choose (<i>Activity sheet: Addition workout</i>) <p>Unit 2 Operations Topic 2 Addition written methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 4 supporting BLMs Introduce concept (<i>Interactive: Vertical column method</i>) Diagnostic assessment (<i>Pre-test: Addition written methods</i>) Formative assessment (<i>Post-test: Addition written methods</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 12 Independent practice pp. 13–14 Extended practice p. 15 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Adding larger numbers (<i>Activity sheet: Solving a problem</i>) Rich task (<i>Names of people and places</i>)

Number	Operations	Adding and subtracting any whole numbers	<p>Unit 2 Operations Topic 3 Subtraction mental methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Mental subtraction methods) Diagnostic assessment (Pre-test: Subtraction mental methods) Formative assessment (Post-test: Subtraction mental methods) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 16 Independent practice pp. 17–18 Extended practice p. 19 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Subtraction word problems (Activity sheet: The population of New Zealand) <p>Unit 2 Operations Topic 4 Subtraction written methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 1 supporting BLM Introduce concept (Interactive: Written subtraction strategies) Diagnostic assessment (Pre-test: Subtraction written methods) Formative assessment (Post-test: Subtraction written methods) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 20 Independent practice pp. 21–22 Extended practice p. 23 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Large number subtraction (Activity sheet: It's a HUGE world) Rich task (Mastery task 1: New Zealand railways) <p>Rich task (Mastery task 10: Bicycles)</p>
		Multiplying any whole number by a two-digit number (e.g. 542×12)	<p>Unit 2 Operations Topic 5 Multiplication mental methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 4 supporting BLMs Diagnostic assessment (Pre-test: Multiplication mental methods) Formative assessment (Post-test: Multiplication mental methods) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 24 Independent practice pp. 25–26 Extended practice p. 27 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Multiply by multiples of 10 (Activity sheet: Multiplication time savers) <p>Unit 2 Operations Topic 6 Multiplication written methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 6) Introduce concept (Interactive: Multiplication written methods) Diagnostic assessment (Pre-test: Multiplication written methods) Formative assessment (Post-test: Multiplication written methods) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 28 (Area model) Independent practice p. 29 (Area model) Guided practice p. 30 (Short multiplication) Independent practice p. 31–32 (Short multiplication) Extended practice p. 33 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Multiplication word problems (Activity sheet: Amazing multiplication facts)

Number	Operations		
		Multiplying any whole number by a two-digit number (e.g. 542×12)	<p>Unit 2 Operations Topic 5 Written computation with multiplication</p> <p>Year 7 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (<i>Interactive: Multiplying by two digits</i>) Diagnostic assessment (<i>Pre-test: Written computation with multiplication</i>) Formative assessment (<i>Post-test: Written computation with multiplication</i>) <p>Year 7 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 33–34 Extended practice p. 35 <p>Year 7 Printable student resources</p> <p>Mixed multiplication problems (<i>Activity sheet: Cross times</i>)</p>
		Dividing up to five-digit whole numbers by a one-digit divisor, with a remainder (e.g. $1283 \div 5 = 256$, remainder 3)	<p>Unit 2 Operations Topic 7 Division written methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–5) with 2 supporting BLMs Diagnostic assessment (<i>Pre-test: Division written methods</i>) Formative assessment (<i>Post-test: Division written methods</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 34 Independent practice pp. 35–36 Extended practice p. 37 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Division (<i>Activity sheet: Division with fascinating facts</i>) <p>Unit 2 Operations Topic 6 Written computation with division</p> <p>Year 7 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Diagnostic assessment (<i>Pre-test: Written computation with division</i>) Formative assessment (<i>Post-test: Written computation with division</i>) <p>Year 7 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 36 Independent practice pp. 37–38
		Connecting finding unit fractions of whole numbers to division (with remainders) (e.g. $\frac{1}{6}$ of 31 is equivalent to $31 \div 6 = 5r1 = 5\frac{1}{6}$)	<p>Unit 11 New curriculum content Topic 2 Connecting fractions to division</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (<i>Connecting fractions to division</i>)
		Representing remainders from division as whole numbers, fractions, or rounded decimals, as appropriate to the context	<p>Unit 2 Operations Topic 7 Division written methods</p> <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Extended practice p. 37 (Q. 2) <p>Unit 2 Operations Topic 6 Written computation with division</p> <p>Year 7 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 2–3) <p>Year 7 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 37–38

Number	Rational numbers		
		Reading, writing, and representing tenths, hundredths, and thousandths as fractions and decimals	<p>Unit 3 Rational numbers Topic 3 Decimal fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Introduce concept (Interactive: Decimal numbers) • Diagnostic assessment (Pre-test: Decimal fractions) • Formative assessment (Post-test: Decimal fractions) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 52 • Extended practice p. 55 (Q. 1–3)
		Comparing and ordering numbers with up to three decimal places	<p>Unit 3 Rational numbers Topic 4 Adding and subtracting decimals</p> <p><i>Click the heading above to go to Oxford Digital, then select 'Topic resources' in right menu to access:</i></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 1 supporting BLM
		Memorising decimal and percentage equivalents of common fractions ($\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$) including fractions with denominators that are 10, 100, or 1000	<p>Unit 3 Rational numbers Topic 5 Percentages</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Introduce concept (Interactive: Matching fractions, decimals and percentages) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 61
		Converting decimal tenths and hundredths to fractions and percentages (e.g. $0.31 = \frac{31}{100} = 31\%$)	<p>Unit 3 Rational numbers Topic 5 Percentages</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 3 supporting BLM • Introduce concept (Interactive: Matching fractions, decimals and percentages) • Diagnostic assessment (Pre-test: Percentages) • Formative assessment (Post-test: Percentages) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> • Guided practice p. 60 • Independent practice pp. 61–62 • Extended practice p. 63
		Multiplying and dividing numbers by 10, 100, or 1,000 to make decimals and whole numbers (e.g. $1.3 \times 10 = 13$) and to identify tenths, hundredths, and thousandths places	<p>Unit 3 Rational numbers Topic 3 Decimal fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 2 supporting BLM • Introduce concept (Interactive: Multiplying and dividing decimals) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice pp. 53–54
		Finding equivalent fractions	<p>Unit 3 Rational numbers Topic 1 Comparing, ordering and simplifying fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> • Lesson plan (Session 3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> • Independent practice p. 44 (Q. 3), 46 • Extended practice p. 47 (Q. 3) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> • Mixture of fraction problems (Activity sheet: Pizza time!)

Number	Rational numbers		
		Comparing and ordering fractions where at least one denominator is a common multiple of all the others	<p>Unit 3 Rational numbers Topic 1 Comparing, ordering and simplifying fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 3 supporting BLMs Introduce concept (Interactive: Comparing and ordering fractions) Diagnostic assessment (Pre-test: Comparing, ordering and simplifying fractions) Formative assessment (Post-test: Comparing, ordering and simplifying fractions) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 44–45 (Q. 4–6) Extended practice p. 47 (Q. 2) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 5: Timber!)
		Converting between mixed numbers and improper fractions	<p>Unit 3 Rational numbers Topic 2 Adding and subtracting fractions</p> <p><i>Click the heading above to go to Oxford Digital, then select 'Topic resources' in right menu to access:</i></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 4) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 50
		Finding common percentages (1%, 10%, 20%, 25%, 50%, 75%) of whole numbers	<p>Unit 3 Rational numbers Topic 5 Percentages</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 62 (Q. 6–10) Extended practice p. 63 (Q. 1–2) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Shopping discounts (Activity sheet: Using percentages)
		Finding a whole set or amount when given a non-unit fraction, using multiplication and division facts (e.g. $\frac{3}{4}$ of the set is 90, what is the whole set?)	<p>Unit 3 Rational numbers Topic 1 Comparing, ordering and simplifying fractions</p> <p><i>Click the heading above to go to Oxford Digital, then select 'Topic resources' in right menu to access:</i></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2–3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice pp. 45 (Q. 7)
		Finding the whole (100%) when given a percentage (e.g. 75% is 24)	<p>Unit 11 New curriculum content Topic 3 Finding the whole from a percentage</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Finding the whole from a percentage)
		Adding and subtracting fractions and mixed numbers when one denominator is a multiple of the other	<p>Unit 3 Rational numbers Topic 2 Adding and subtracting fractions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 3 supporting BLMs Diagnostic assessment (Pre-test: Adding and subtracting fractions) Formative assessment (Post-test: Adding and subtracting fractions) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 48 Independent practice pp. 49–50 Extended practice p. 51 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Denominator is a multiple of the other (Activity sheet: Fraction jigsaw)

Number	Rational numbers	Adding and subtracting decimals to three decimal places	<p>Unit 3 Rational numbers Topic 4 Adding and subtracting decimals</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Addition of decimals) Introduce concept (Interactive: Adding and subtracting decimals) Diagnostic assessment (Pre-test: Adding and subtracting decimals) Formative assessment (Post-test: Adding and subtracting decimals) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 56 Independent practice pp. 57–58 Extended practice p. 59 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Adding decimals (Activity sheet: Decimals with byte)
		Finding a non-unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. $\frac{2}{3}$ of 240)	<p>Unit 2 Operations Topic 5 Multiplication mental methods</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 4–5) with 4 supporting BLMs
		Reasoning proportionally with fractions, decimals, and percentages to compare two quantities and determine missing values	<p>Unit 11 New curriculum content Topic 4 Using reasoning to determine missing values</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Using reasoning to determine missing values)
	Financial maths	Investigating questions involving purchases (e.g. ensuring there's enough money)	<p>Unit 4 Financial mathematics Topic 1 Financial plans</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Diagnostic assessment (Pre-test: Financial plans) Formative assessment (Post-test: Financial plans) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 64 Independent practice pp. 65 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Money questions (Activity sheet: Spending wisely)
		Calculating 10%, 25%, and 50% of whole dollar amounts (e.g. 50% of \$280)	<p>Unit 4 Financial mathematics Topic 1 Financial plans</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) Introduce concept (Interactive: GST (Australia)) Diagnostic assessment (Pre-test: Financial plans) Formative assessment (Post-test: Financial plans) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 64 (Q. 4) Independent practice pp. 65 (Q. 2,3c)–66 Extended practice p. 67

Algebra	Equations and relationships	Checking the truth of and completing open number sentences that involve all four operations and that include the use of inequalities, respecting the order of operations (e.g. $8 \times 7 \leq 8 \times 5 + 4^2$, true or false?)	<p>Unit 5 Algebra Topic 2 Order of operations and number properties</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Order of operations) Diagnostic assessment (Pre-test: Order of operations and number properties) Formative assessment (Post-test: Order of operations and number properties) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 73 Independent practice pp. 74–75 Extended practice p. 76 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Order of operations (Activity sheet: Doing things in the right order)
		Developing a rule for a growing pattern in words and making conjectures about further elements in the pattern	<p>Unit 5 Algebra Topic 1 Number patterns and algorithms</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 1 supporting BLM
		Locating coordinate points on a coordinate plane, including points found on the x- or y-axis	<p>Unit 11 New curriculum content Topic 5 Locating coordinate points</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Locating coordinate points)
		Generating a table of values from a rule for a growing pattern and plotting these points on a coordinate plane	<p>Unit 5 Algebra Topic 1 Number patterns and algorithms</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) with 1 supporting BLM <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 71 Extended practice p. 72 (Q. 3–4)
Measurement	Measuring	<p>Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)</p> <p>Estimating (using benchmarks) length, mass (weight), capacity, temperature, and duration, using appropriate metric or time-based units or a combination of units</p>	<p>Unit 6 Using units of measurement Topic 1 Length and perimeter</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–2) with 1 supporting BLM Diagnostic assessment (Pre-test: Length and perimeter) Formative assessment (Post-test: Length and perimeter) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 77 Independent practice p. 78 (Q. 3–4)–79 (Q. 9) Extended practice p. 80 (Q. 1–2, 4) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Length (Activity sheet: The Ant Olympics) Rich task (Mastery task 2: Bridges) <p>Unit 5 Using units of measurement Topic 3 Volume and capacity</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Volume and capacity) Diagnostic assessment (Pre-test: Volume and capacity) Formative assessment (Post-test: Volume and capacity) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 86 (Q. 2–3) Independent practice p. 88 Extended practice p. 89 (Q. 3) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Capacity in real life (Activity sheet: Looking at capacity)

Measurement	Measuring	<p>Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)</p> <p>Estimating (using benchmarks) length, mass (weight), capacity, temperature, and duration, using appropriate metric or time-based units or a combination of units</p>	<p>Unit 6 Using units of measurement Topic 4 Mass</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLM Introduce concept (Interactive: Mass) Diagnostic assessment (Pre-test: Mass) Formative assessment (Post-test: Mass) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 90 (Q. 1, 3) Independent practice pp. 91–92 Extended practice p. 93 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Mass experiments (Activity sheet: As light as a feather) Rich task (Mastery task 7: At the park) Rich task (Mastery task 9: Boxes) <p>Rich task (Mastery task 10: Bicycles)</p>
		<p>Converting metric units of length (m and cm), mass (g and kg), and capacity (L and mL), including combining mixed units to produce units with up to 2 decimal places (e.g. 10 kg and 500 g = 10.5 kg)</p>	<p>Unit 6 Using units of measurement Topic 1 Length and perimeter</p> <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 77 (Q. 3–4) Independent practice p. 79 Extended practice p. 80 (Q. 3) <p>Unit 5 Using units of measurement Topic 3 Volume and capacity</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 88 (Q. 6,8) <p>Unit 6 Using units of measurement Topic 4 Mass</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 90 (Q. 2)
		<p>Identifying and describing angles at a point, angles on a straight line, and vertically opposite angles, using angle notation</p>	<p>Unit 7 Shapes and spatial reasoning Topic 3 Angles</p> <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Angles at a point (Activity sheet: Angles in shapes p. 3)
		<p>Classifying, measuring, and constructing angles up to 360°, using a protractor</p>	<p>Unit 7 Shapes and spatial reasoning Topic 3 Angles</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) Introduce concept (Interactive: Angles) Diagnostic assessment (Pre-test: Angles) Formative assessment (Post-test: Angles) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 107 Independent practice pp. 108–109 Extended practice p. 110 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Angles in shapes (Activity sheet: Angles in shapes) Rich task (Mastery task 7: At the park)

Measurement	Measuring	Reasoning about and finding unknown angles in situations involving angles at a point, angles on a straight line, and vertically opposite angles	Unit 11 New curriculum content Topic 6 Finding unknown angles Year 6 Teacher resources <ul style="list-style-type: none"> • Front of class material (Finding unknown angles)
		Converting between units of time (h, min, s) Measuring duration in both 12- and 24-hour time systems Finding elapsed time in minutes across an hour (e.g. the difference between 2:53 pm and 3:28 pm)	Unit 6 Using units of measurement Topic 5 Time Year 6 Teacher resources <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 2 supporting BLMs • Introduce concept (Interactive: Time) • Diagnostic assessment (Pre-test: Time) • Formative assessment (Post-test: Time) Year 6 Student Workbook resources <ul style="list-style-type: none"> • Guided practice p. 94 • Independent practice pp. 95–96 (Q. 5,7) • Extended practice p. 97
		Using and interpreting timetables to calculate the duration of events (e.g. bus and train schedules)	Unit 6 Using units of measurement Topic 5 Time Year 6 Student Workbook resources <ul style="list-style-type: none"> • Independent practice p. 96 (Q. 6) • Extended practice p. 97 Year 6 Printable student resources <ul style="list-style-type: none"> • Interpreting timetables (Activity sheet: Take your time)
		Calculating, estimating, and comparing the volumes of cubes and rectangular prisms using standard units, including cubic centimetres (cm ³) and cubic metres (m ³)	Unit 5 Using units of measurement Topic 3 Volume and capacity Year 6 Teacher resources <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (Interactive: Volume and capacity) • Diagnostic assessment (Pre-test: Volume and capacity) • Formative assessment (Post-test: Volume and capacity) Year 6 Student Workbook resources <ul style="list-style-type: none"> • Guided practice p. 86 (Q. 1) • Independent practice p. 87 • Extended practice p. 89 (Q. 1–2) Year 6 Printable student resources <ul style="list-style-type: none"> • Volume in context (Activity sheet: Looking at volume)
		Visualising, estimating, and calculating (using multiplication) the areas of rectangles and right-angled triangles (in cm ² and m ²) and the volumes of rectangular prisms (in cm ³)	Unit 6 Using units of measurement Topic 2 Area Year 6 Teacher resources <ul style="list-style-type: none"> • Lesson plan (Sessions 1–4) with 1 supporting BLM • Introduce concept (Interactive: Area) • Diagnostic assessment (Pre-test: Area) • Formative assessment (Post-test: Area) Year 6 Student Workbook resources <ul style="list-style-type: none"> • Guided practice p. 81 • Independent practice pp. 82–84 • Extended practice p. 85 Year 6 Printable student resources <ul style="list-style-type: none"> • Area word problems (Activity sheet: Working with area)

Measurement	Measuring	Visualising, estimating, and calculating (using multiplication) the areas of rectangles and right-angled triangles (in cm ² and m ²) and the volumes of rectangular prisms (in cm ³)	<p>Unit 5 Using units of measurement Topic 3 Volume and capacity</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Volume and capacity) Diagnostic assessment (Pre-test: Volume and capacity) Formative assessment (Post-test: Volume and capacity) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 86 (Q. 1) Independent practice p. 87 Extended practice p. 89 (Q. 1–2) <p>Year 6 Printable student resources</p> <p>Volume in context (Activity sheet: Looking at volume)</p>
Geometry	Shapes	<p>Identifying, classifying, and explaining similarities and differences between 2D shapes (including different types of triangles and quadrilaterals) and between prisms and pyramids</p> <p>Identifying and describing the interior angles of triangles and quadrilaterals</p>	<p>Unit 7 Shapes and spatial reasoning Topic 1 2D shapes</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 3 supporting BLM Introduce concept (Interactive: Types of Triangles / Quadrilaterals) Diagnostic assessment (Pre-test: 2D shapes) Formative assessment (Post-test: 2D shapes) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 98 Independent practice pp. 99–101 Extended practice p. 102 (Q. 1, 2, 3–4) <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Polygons in buildings (Activity sheet: Buildings of all shapes and sizes) <p>Unit 7 Shapes and spatial reasoning Topic 4 3D shapes</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM Introduce concept (Interactive: 3D shapes – nets) Diagnostic assessment (Pre-test: 3D shapes) Formative assessment (Post-test: 3D shapes) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 111 Independent practice pp. 112–113 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Nets (Activity sheet: Looking at 3D shapes) Rich task (Mastery task 9: Boxes)
		<p>Identifying shapes with rotational symmetry and determining their order of rotational symmetry</p>	<p>Unit 11 New curriculum content Topic 7 Rotational symmetry</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Rotational symmetry)
		<p>Visualising, creating, and describing 2D geometric patterns and tessellations using rotation, reflection, and translation, and identifying the properties of the shapes that do not change</p>	<p>Unit 7 Shapes and spatial reasoning Topic 2 Transformations</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Transformations) Diagnostic assessment (Pre-test: Transformations) Formative assessment (Post-test: Transformations) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 103 Independent practice pp. 104 Extended practice p. 106 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Creating patterns (Activity sheet: Patterns in art)

Geometry	Shapes	Predicting the results of two-step transformations (reflections, translations, rotations) on 2D shapes	<p>Unit 7 Shapes and spatial reasoning Topic 2 Transformations</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 3) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 105
	Pathways	Interpreting and creating grid references and simple scales on maps, using directional language including the four main compass points, turn (in degrees), and distance (in m, km) to locate and describe positions and pathways	<p>Unit 8 Pathways Topic 1 Grid references</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLM Introduce concept (Interactive: Grid references) Diagnostic assessment (Pre-test: Grid references) Formative assessment (Post-test: Grid references) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 115 Independent practice pp. 116–117 Extended practice p. 118 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Maps (Activity sheet: Using coordinates) Rich task (Mastery task 8: Theme parks) <p>Unit 8 Pathways Topic 2 Giving directions</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 1 supporting BLM Introduce concept (Interactive: Giving directions) Diagnostic assessment (Pre-test: Giving directions) Formative assessment (Post-test: Giving directions) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 119 Independent practice pp. 120–121 Extended practice p. 122 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Compass task (Activity sheet: Finding your way) Rich task (Mastery task 4: A look at New Zealand) <p>Unit 8 Pathways Topic 1 Scales and maps</p> <p>Year 5 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM Introduce concept: (Interactive: Scales and maps) <p>Year 5 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 97 Independent practice pp. 98–99
Statistics	Developing knowledge from data	<p>Collecting time-series data (e.g. how the mass of a kilogram of carrots varies over 5 days)</p> <p>Calculating the mean for numerical data</p> <p>Calculating the range for numerical data</p>	<p>Unit 9 Statistics Topic 1 Collecting and representing data</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–7) with 2 supporting BLM Introduce concept (Interactive: Collecting and representing data) Diagnostic assessment (Pre-test: Collecting and representing data) Formative assessment (Post-test: Collecting and representing data) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice pp. 123–124 Independent practice pp. 125 Extended practice p. 126 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Gathering data about the class (Activity sheet: Surveying students) Rich task (Names of people and places)

Statistics	Visualisation of data	Creating time-series graphs	<p>Unit 9 Statistics Topic 2 Representing and interpreting data</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) with 1 supporting BLM <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 127 Independent practice pp. 128 Extended practice p. 130 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Rich task (Mastery task 6: Too much rain?)
		Choosing and creating an appropriate data visualisation for a given set of data	<p>Unit 9 Statistics Topic 1 Collecting and representing data</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–7) with 2 supporting BLM Introduce concept (Interactive: Collecting and representing data) Diagnostic assessment (Pre-test: Collecting and representing data) Formative assessment (Post-test: Collecting and representing data) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice pp. 123–124 Independent practice pp. 125 Extended practice p. 126 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Gathering data about the class (Activity sheet: Surveying students) Rich task (Names of people and places)
	Interpretation of data	<p>Identifying whether a time-series graph shows a trend</p> <p>Calculating an average and a range for continuous numerical data</p> <p>Interpreting data visualisations, including those from contemporary media</p>	<p>Unit 9 Statistics Topic 2 Representing and interpreting data</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–7) with 6 supporting BLM Introduce concept (Interactive: Representing and interpreting data) Diagnostic assessment (Pre-test: Representing and interpreting data) Formative assessment (Post-test: Representing and interpreting data) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 127 Independent practice p. 129 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Scatter plot (Activity sheet: Looking at data)
Probability	Experimental probability	Listing the sample space of an event (e.g. the sample space for rolling a die is 1, 2, 3, 4, 5, 6)	<p>Unit 11 New curriculum content Topic 8 Sample space</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Front of class material (Sample space)
		Calculating the probabilities of individual outcomes	<p>Unit 10 Probability Topic 1 Chance</p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–4) with 2 supporting BLM Introduce concept (Interactive: Chance statements) Diagnostic assessment (Pre-test: Chance) Formative assessment (Post-test: Chance) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 131 (Q. 1–2) Independent practice p. 132 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Using chance expressions (Activity sheet: What's the chance?)

Probability	Experimental probability	Calculating the probabilities of individual outcomes	<p><u>Unit 11 Probability Topic 1 Describing probabilities</u></p> <p>Year 7 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1 and 2) with one supporting BLM Introduce topic (<i>Interactive: Describing probabilities</i>) Diagnostic assessment (<i>Pre-test: Describing probabilities</i>) Formative assessment (<i>Post-test: Describing probabilities</i>) <p>Year 7 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 133 Independent practice pp. 134–135
		Calculating probabilities using a spinner, where each event is a fraction or combination of fractions on the spinner	<p><u>Unit 10 Probability Topic 1 Chance</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Session 2) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 131 (Q. 3–5) Independent practice pp. 132–133 (Q. 4–6) Extended practice p. 134 (Q. 2) <p><u>Unit 10 Probability Topic 2 Chance experiments</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Introduce concept (<i>Interactive: Conducting chance experiments</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Independent practice p. 136 Extended practice p. 138 (Q. 1–3)
		Answering questions about the probability of combinations of outcomes, including checking that the sum of all the probabilities is 1	<p><u>Unit 10 Probability Topic 1 Chance</u></p> <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 131 (Q. 3–5) Independent practice p. 133 Extended practice p. 134 <p><u>Unit 10 Probability Topic 2 Chance experiments</u></p> <p>Year 6 Teacher resources</p> <ul style="list-style-type: none"> Lesson plan (Sessions 1–6) Diagnostic assessment (<i>Pre-test: Chance experiments</i>) Formative assessment (<i>Post-test: Chance experiments</i>) <p>Year 6 Student Workbook resources</p> <ul style="list-style-type: none"> Guided practice p. 135 Independent practice p. 136–137 Extended practice p. 138 <p>Year 6 Printable student resources</p> <ul style="list-style-type: none"> Card probability (<i>Activity sheet: Choose a card</i>)