

Planning grids

Year 2 scope and sequence

The following grid shows the concepts and objectives that are covered within each *Rising Stars Mathematics* Year 2 unit and provides page references to each of the various components.

Unit	Concept	Objectives	Textbook	Teacher's Guide	Practice Book	Homework Sheets
1	1a Comparing numbers	<ul style="list-style-type: none"> Partition a 2-digit number into tens and ones. Identify and represent numbers using different representations. Compare and order numbers from 0 to 100. 	12-13	26-7	A4-6	202
	1b Partitioning numbers	<ul style="list-style-type: none"> Recognise the place value of each digit in a 2-digit number. Compare and order numbers from 0 to 100. Identify and represent numbers using different representations. Partition a 2-digit number into tens and ones in different ways and use partitioning to solve problems. 	14-15	28-9	A7-11	203
	1c Tallest, longest, shortest	<ul style="list-style-type: none"> Measure and compare lengths and heights using appropriate standard units. Interpret and construct simple diagrams. 	16-17	30-1	A12-14	204
	1d Units of time	<ul style="list-style-type: none"> Compare and sequence intervals of time. Interpret simple timetables. Ask and answer questions comparing data. 	18-19	32-3	A15-17	205
2	2a Fact families	<ul style="list-style-type: none"> Recall and use number bonds for ten. Find, recall and use addition and subtraction facts to 20 fluently. 	26-7	40-1	A18-19	206
	2b Adding and subtracting ones	<ul style="list-style-type: none"> Add and subtract numbers using concrete objects, pictorial representations and mentally, including: a 2-digit number and ones. Show that addition can be done in any order (commutative). Solve problems with addition and subtraction of numbers, quantities and measures using concrete objects, pictorial representations and mental methods. 	28-9	42-3	A20-24	207
	2c Adding three single-digit numbers	<ul style="list-style-type: none"> Add numbers using concrete objects, pictorial representations and mentally, including adding three single-digit numbers. Recall and use number bonds for ten. Show that addition can be done in any order (commutative). Solve problems with addition of numbers, quantities and measures using concrete objects, pictorial representations and mental methods. 	30-1	44-5	A25-7	208
	2d Adding and subtracting tens	<ul style="list-style-type: none"> Add and subtract numbers using concrete objects, pictorial representations and mentally, including a 2-digit number and tens. Solve problems with addition and subtraction of numbers, quantities and measures using concrete objects, pictorial representations and mental methods. Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. 	32-3	46-7	A28-30	209
3	3a Patterns	<ul style="list-style-type: none"> Explore patterns in a variety of ways using 2-D and 3-D shapes. Compare and sort common 2-D and 3-D shapes and everyday objects. 	40-1	54-5	A31-2	210
	3b Faces, vertices and edges	<ul style="list-style-type: none"> Explore and sort 3-D shapes according to the shape of their faces, number of vertices and edges. Identify and name different polygons and describe their properties and quadrilaterals. Compare and sort common 2-D and 3-D shapes and everyday objects. 	42-3	56-7	A33-4	211
	3c Symmetry	<ul style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line. 	44-5	58-9	A35-7	212
4	4a Less than and greater than	<ul style="list-style-type: none"> Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs. Compare and order lengths and record the results using $>$, $<$ and $=$. 	52-3	66-7	A38-40	213
	4b How much?	<ul style="list-style-type: none"> Choose and use appropriate standard units to measure mass (weight) (kg/g) and capacity (litres/ ml) to the nearest appropriate unit using scales and measuring vessels. Compare and order mass (weight), volume/capacity and record the results using $>$, $<$ and $=$. 	54-5	68-9	A41-3	214
	4c Quarter past and quarter to	<ul style="list-style-type: none"> Tell and write the time using quarter past and quarter to the hour, and draw the hands on a clock to show these times. Know the number of minutes in an hour and the number of hours in a day. 	56-7	70-1	A44-6	215

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5	5a Patterns in calculations	<ul style="list-style-type: none"> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Identify, represent and estimate numbers using different representations, including the number line. Show that addition of two numbers can be done in any order (commutative). Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins to equal the same amounts of money. Solve simple problems in a practical context involving addition of money of the same unit. 	64-5	78-9	A47-51	216
	5b Pounds and pence	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins to equal the same amounts of money. Solve simple problems in a practical context involving addition of money of the same unit. 	66-7	80-1	A52-4	217
	5c Adding and subtracting money	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins to equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit. 	68-9	82-3	A55-7	218
	5d Money problems	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins to equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying the increasing knowledge of mental and written methods. Interpret and construct simple tables. 	70-1	84-5	A58-60	219
6	6a Estimating	<ul style="list-style-type: none"> Estimate a quantity by comparing with a known quantity and using fractions. Identify, represent and estimate numbers using different representations, including the number line. 	78-9	92-3	B4-6	220
	6b Odd and even	<ul style="list-style-type: none"> Identify and use odd and even numbers. Use a Carroll diagram to sort numbers and objects according to their properties. 	80-1	94-5	B7-9	221
	6c Displaying information	<ul style="list-style-type: none"> Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Identify how many in a category and sort categories by quantity. Ask and answer questions about totalling and comparing categorical data. 	82-3	96-7	B10-11	222
7	7a Repeated addition and subtraction	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the two, five and ten multiplication tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the times tables and write them using the multiplication (\times), and division (\div) and equals ($=$) signs. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	90-1	104-5	B12-16	223
	7b Multiplication tables and arrays	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the two, five and ten multiplication tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the times tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	92-3	106-7	B17-20	224

Introduction

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7	7c Division	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the two, five and ten multiplication tables. Calculate mathematical statements for division within the multiplication tables and write them using the division (÷) and equals (=) signs. Show that division of one number by another cannot be done in any order. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	94-5	108-9	B21-2	225
	7d Five minute times	<ul style="list-style-type: none"> Tell and write the time to five minutes. Know the number of minutes in an hour. 	96-7	110-11	B23-6	226
8	8a Partitioning to add and subtract (TO and O)	<ul style="list-style-type: none"> Recognise the place value of each digit in a 2-digit number (tens, ones). Add and subtract a 2-digit number and ones. Identify, represent and estimate numbers using different representations. 	104-5	118-19	B27-33	227
	8b Partitioning to add and subtract (TO and TO)	<ul style="list-style-type: none"> Recognise the place value of each digit in a 2-digit number (tens, ones). Identify, represent and estimate numbers using different representations. Add and subtract two 2-digit numbers. Use the inverse relationship between addition and subtraction to check calculations and solve missing number problems. 	106-7	120-1	B34-8	228
	8c Fractions of a whole	<ul style="list-style-type: none"> Recognise halving and doubling as the inverse of each other. Recognise, find, name and write fractions $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. 	108-9	122-3	B39-42	229
	8d Temperature	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure temperature (°C) to the nearest appropriate unit, using thermometers. Compare and order numbers from 0 up to 100; use <, > and = signs. Read and write numbers to at least 100 in numerals and in words. Use place value and number facts to solve problems. 	110-11	124-5	B43-6	230
9	9a Adding and subtracting by sequencing	<ul style="list-style-type: none"> Add and subtract numbers using concrete objects, pictorial representations and mentally, including two 2-digit numbers. Solve problems with addition and subtraction, applying their increasing knowledge of mental and written methods. 	118-19	132-3	B47-50	231
	9b Adding and subtracting a near multiple of ten	<ul style="list-style-type: none"> Recall and use addition and subtraction facts to ten fluently. Add and subtract numbers using concrete objects, pictorial representations and mentally, including two 2-digit numbers. Solve problems with addition and subtraction, applying their increasing knowledge of mental and written methods. 	120-1	134-5	B51-3	232
	9c Numbers in words	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and words. Recognise the place value of each digit in a 2-digit number (tens, ones). 	122-3	136-7	B54-7	233
10	10a Exploring faces	<ul style="list-style-type: none"> Explore and compare 3-D shapes including grouping 3-D shapes by their 2-D faces. Compare and sort common 2-D and 3-D shapes and everyday objects. Explore same and different pairs of shapes including pyramid and prism. 	130-1	144-5	C4-7	234
	10b Patterns and shapes	<ul style="list-style-type: none"> Explore how 2-D and 3-D shapes fit together. Explore simple tessellations. Explore 2-D and 3-D artists and the shapes they use. Compare and sort common 2-D and 3-D shapes and everyday objects. 	132-3	146-7	C8-10	235
11	11a Millilitres	<ul style="list-style-type: none"> Estimate and measure capacity in millilitres using measuring vessels. Compare and order volume/capacity and record the results using >, < and =. Add and subtract 2-digit numbers using concrete objects, pictorial representations, and mentally in the context of measures. Interpret and construct simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. 	140-1	154-5	C11-13	236

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11	11b Time intervals	<ul style="list-style-type: none"> Compare and sequence intervals of time. Tell and write the time to five minutes. Know and use the fact that there are 60 minutes in an hour. 	142-3	156-7	C14-17	237
	11c Thirds	<ul style="list-style-type: none"> Recognise, find, name and write fractions of a length, shape, set of objects or quantity – focus on $\frac{1}{3}$, including writing and solving $\frac{1}{3}$ of $\blacksquare = \blacksquare$. 	144-5	158-9	C18-21	238
12	12a Add or subtract?	<ul style="list-style-type: none"> Use the bar model to solve problems with addition and subtraction, using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increased knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations. 	152-3	166-7	C22-6	239
	12b Checking addition and subtraction	<ul style="list-style-type: none"> Solve problems with addition and subtraction, using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increased knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems. 	154-5	168-9	C27-9	240
	12c Solving missing number problems	<ul style="list-style-type: none"> Solve problems with addition and subtraction, using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increased knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 	156-7	170-1	C30-2	241
	12d Adding in columns	<ul style="list-style-type: none"> Solve problems with addition and subtraction, using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increased knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems. Record addition in columns to support place value and prepare for formal written methods with larger numbers. 	158-9	172-3	C33-5	242
13	13a Multiplication table for 3	<ul style="list-style-type: none"> Calculate multiplication and division statements for three and write them using the multiplication (\times), division (\div) and equals ($=$) signs. Begin to recall and use multiplication and division facts for three including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	166-7	180-1	C36-9	243
	13b Fractions and scaling	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. Write simple fractions, e.g. $\frac{1}{2}$ of $6 = 3$, and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. Begin to recognise fractions as division. 	168-9	182-3	C40-3	244
	13c Calculating time	<ul style="list-style-type: none"> Know the number of hours in a day. Compare and sequence intervals of time. 	170-1	184-5	C44-47	245
14	14a Turns	<ul style="list-style-type: none"> Identify quarter turns and compare right angles with quarter turns. Describe position, direction and movement, including moving clockwise and anticlockwise, quarter, half and three-quarter turns. 	178-9	192-3	C48-50	246
	14b Estimating lengths and distances	<ul style="list-style-type: none"> Estimate and measure length and distance. Use mathematical vocabulary to describe position, direction and movement. 	180-1	194-5	C51-4	247
	14c Directions	<ul style="list-style-type: none"> Describe position, direction and movement, including moving clockwise and anticlockwise, quarter, half and three-quarter turns. Use mathematical vocabulary to describe position, direction and movement. Give and follow directions to navigate a course. 	182-3	196-7	C55-8	248