Number

Numbers and the number system

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Nn1 Recite numbers in order (forwards from 1 to 100, backwards from 20 to 0).	pages 30–38 and 79 pages 4–16	pages 38–47		1.3 Comparing numbers to 20	Recognise and complete patterns in numbers to 20: Star numbers
1Nn2 Read and write numerals from 0 to 20.	pages 4–16	pages 2–13	Counting to 20, pages 1–5	2.4 Counting by twos, fives and tens 3.4 Number sentence families 9.2 Exchanging money	
1Nn3 Count objects up to 20, recognising conservation of number.		pages 14–18 pages 2–13		1.2 Comparing numbers to 10	
1Nn4 Count on in tens from zero or a single-digit number to 100 or just over.	pages 79–80, 83–84		Number patterns, pages 6–10	9.2 Exchanging money 1 9.3 Exchanging money 2	
1Nn5 Count on in twos, beginning to recognise odd/even numbers to 20 as 'every other number'.	pages 79, 81, 83–84 pages 24, 38	pages 92–94 pages 45–47	Number patterns, pages 6–10	2.4 Counting by twos, fives and tens	Recognise and complete patterns in numbers to 20: Star numbers
1Nn6 Begin partitioning two-digit numbers into tens and ones and reverse.	pages 12–18	pages 14–21		9.2 Exchanging money	
1Nn7 Within the range 0 to 30, say the number that is 1 or 10 more or less than any given number.	pages 39–41 pages 25–26	pages 38–47		1.2 Comparing numbers to 10 10.2 Reading and making pictographs 2	

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1Nn8 Use more or less to compare two numbers, and give a number which lies between them.	pages 19–24, 27–29	pages 22–37		1.4 Order and patterns 9.4 Exchanging money 3 10.2 Reading and making pictographs 2 10.4 Reading Carroll diagrams	
1Nn9 Order numbers to at least 20 positioning on a number track; use ordinal numbers.	pages 27–29, 42–45	pages 48–55		1.3 Comparing numbers to 20 1.5 Ordinal numbers 5.4 Measuring length in units 6.3 Measuring mass 2	Comparing numbers to 20: Medals
1Nn10 Use the = sign to represent equality.	pages 48–53	pages 85–91 pages 56–60, 69–71			
1Nn11 Give a sensible estimate of some objects that can be checked by counting, e.g. to 30.	pages 84–85	pages 95–96			
1Nn12 Find halves of small numbers and shapes by folding, and recognise which shapes are halved.	Halves of numbers: page 87 Halves of shapes: pages 138–139			2.4 Counting by twos, fives and tens 4.5 Halving shapes by folding	
Calculation					
Mental strategies					
1Nc1 Know all number pairs to 10 and record the related addition/subtraction facts.	pages 58–60	pages 66–67	Number pairs, pages 16–20	2.2 Addition using number bonds	Add to 20 using number bonds: Number cards
1Nc2 Begin to know number pairs to 6, 7, 8, 9 and 10.	pages 58–63	pages 61–71		2.2 Addition using number bonds	

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1Nc3 Add more than two small numbers, spotting pairs to 10, e.g. 4 + 3 + 6 = 10 + 3.	page 60	page 72			
1Nc4 Begin using pairs to 10 to bridge 10 when adding/ subtracting, e.g. 8 + 3, add 2, then 1.	pages 64–73	pages 73–84			Add to 20 using number bonds: Number cards
1Nc5 Know doubles to at least double 5.	page 87 pages 88–91	pages 99–101		2.5 Doubling and halving numbers	Add to 20 using number bonds: Number cards
1Nc6 Find near doubles using doubles already known, e.g. 5 + 6.	pages 88–91	pages 99–101			
1Nc7 Begin to recognise multiples of 2 and 10.	page 79	pages 92–94			
Addition and subtraction					
1Nc8 Understand addition as counting on and combining two sets; record related addition sentences.	pages 48–63	page 56	Addition by counting on, pages 11–15	1.1 Counting to 20 2.1 Addition by counting on 2.2 Addition using number bonds 2.3 Solving addition stories 2.4 Counting by twos, fives and tens 3.4 Number sentence families 3.5 Subtraction and addition word problems 9.2 Exchanging money 1 9.3 Exchanging money 2 9.4 Exchanging money 3 9.5 Exchanging money 4	

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1Nc9 Understand subtraction as counting back and 'take away'; record related subtraction sentences.	pages 94–100	pages 102–109	Subtraction by taking away, pages 21–25	3.1 Subtraction by taking away 3.2 Subtraction by counting back 3.4 Number sentence families 3.5 Subtraction and addition word problems 9.4 Exchanging money 3	Subtract within 20 by taking away: Beads
1Nc10 Understand difference as 'how many more to make?'	pages 104–107	pages 116–117		3.3 Subtraction as 'how many more to make?' 3.5 Subtraction and addition word problems	
1Nc11 Add/subtract a single-digit number by counting on/back.	pages 48–49, 94–100			1.1 Counting to 20 2.1 Addition by counting on 2.2 Addition using number bonds 2.3 Solving addition stories 3.2 Subtraction by counting back 3.4 Number sentence families 3.5 Subtraction and addition word problems 9.2 Exchanging money	
1Nc12 Find two more or less than a number to 20, recording the jumps on a number line.	pages 48–49 pages 25–26, 52–53, 100			2.4 Counting by twos, fives and tens	

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Nc13 Relate counting on and back in tens to finding 10 more/less than a number (<100).	pages 79–80, 83–84				
1Nc14 Begin to use the +, − and = signs to record calculations in number sentences.	pages 48–53, 94–100	pages 114–115	Number sentence families, pages 26–30		Subtraction and addition word problems: Number families
1Nc15 Understand that changing the order of addition does not change the total.	page 109		Number sentence families, pages 26–30	3.4 Number sentence families	
1Nc16 Add a pair of numbers by putting the larger number first and counting on.	pages 48–53			2.4 Counting by twos, fives and tens	
1Nc17 Recognise the use of a sign such as □ to represent an unknown, e.g. 6 + □ = 10.	pages 18, 50–51, 58–59	pages 56–60, 69–71, 116–123		3.4 Number sentence families	
1Nc18 Begin to add single- and two-digit numbers.	page 115			1.1 Counting to 20 1.4 Order and patterns 2.1 Addition by counting on 2.2 Addition using number bonds 2.3 Solving addition stories 2.5 Doubling and halving numbers 3.1 Subtraction by taking away 3.4 Number sentence families 3.5 Subtraction and addition word problems 9.2 Exchanging money 1 9.5 Exchanging money 4	

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Multiplication and division					
1Nc19 Double any single-digit number.	page 87	pages 97–98, 100–101		2.5 Doubling and halving numbers	Double and halve numbers: Birthday candles
1Nc20 Find halves of even numbers of objects up to 10.	page 87	page 99		2.5 Doubling and halving numbers	Double and halve numbers: Birthday candles
1Nc21 Try to share numbers to 10 to find which are even and which are odd.	page 87 page 81	page 99			
1Nc22 Share objects into two equal groups in a context.	page 87	page 98			
Geometry					
Shapes and geometric reasoning					
1Gs1 Name and sort common 2D shapes (e.g. circles, squares, rectangles and triangles) using features such as number of sides, curved or straight. Use them to make patterns and models.	pages 116–129	pages 124–137	2D shapes, pages 36–40 Shape patterns, pages 41–45	4.1 2D shapes 4.2 Grouping shapes 4.3 Patterns with shapes 4.4 3D shapes 4.5 Halving shapes by folding	Name and sort 2D shapes: Collecting shapes
1Gs2 Name and sort common 3D shapes (e.g. cube, cuboid, cylinder, cone and sphere) using features such as number of faces, flat or curved faces. Use them to make patterns and models.	pages 130–133	pages 138–142	3D shapes, pages 46–50	4.4 3D shapes	Name and sort 2D shapes: Collecting shapes Name and sort 2D shapes: Making patterns
1Gs3 Recognise basic line symmetry.	pages 134–139	page 143	Line symmetry, pages 51–55	4.5 Halving shapes by folding	

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Position and movement					
1Gp1 Use everyday language of direction and distance to describe movement of objects	pages 42–45	pages 53 and 55			

Measure

Money					
1Mm1 Recognise all coins and work out how to pay an exact sum using smaller coins.	pages 192–203	pages 186–193	Exchanging money, pages 91–95	9.1 Coins 9.2 Exchanging money 1 9.3 Exchanging money 2 9.4 Exchanging money 3 9.5 Exchanging money 4	Recognise and know the value of coins: Coins Work out how to pay an existing sum using coins: Shopping
Length, mass and capacity					
1Ml1 Compare lengths and weights by direct comparison, then by using uniform non-standard units.	Length: pages 142–155 Weight: pages 158–169	Length: pages 144–159 Weight: pages 160–175	Comparing length, pages 56–60 Measuring length, pages 61–65 Comparing mass, pages 66–70 Measuring mass in units, pages 71–75	5.1 Comparing the length of two objects 5.2 Comparing the length of more than two objects 5.3 Measuring length 5.4 Measuring length in units 6.1 Comparing masses 6.2 Measuring mass 6.3 Measuring mass 2 6.4 Measuring mass in units	Compare the length of 2 or more objects: Comparing Measuring lengths: Using non-standard units Compare masses of two or more objects: Which weighs more? Measure mass using non-standard units: True or false?

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Ml2 Estimate and compare capacities by direct comparison, then by using uniform non-standard units.	pages 172–177	pages 176–179	Comparing capacities, pages 76–80	7.1 Compare capacities of two objects 1 7.2 Compare capacities of two objects 2 7.3 Compare capacities of two or more objects 7.5 Revision	Compare capacity of 2 or more objects: Jars and glasses Measure capacity using non-standard units: Measuring
1Ml3 Use comparative language, e.g. longer, shorter, heavier, lighter.	Length: pages 142–149 Weight: pages 158–165		Comparing length, pages 56–60 Measuring length, pages 61–65 Comparing mass, pages 66–70 Measuring mass in units, pages 71–75 Comparing capacities, pages 76–80	5.1 Comparing the length of two objects 5.2 Comparing the length of more than two objects 5.5 Revision 6.1 Comparing masses 6.2 Measuring mass 6.3 Measuring mass 2 6.4 Measuring mass in units 6.5 Revision 7.1 Compare capacities of two objects 1 7.2 Compare capacities of two objects 2 7.3 Compare capacities of two or more objects 7.4 Measure capacities using non-standard units 7.5 Revision	Compare the length of 2 or more objects: Comparing Measuring lengths: Using non-standard units Compare masses of two or more objects: Which weighs more? Measure mass using non-standard units: Is it true? Compare capacity of 2 or more objects: Jars and glasses Measure capacity using non-standard units: Measuring

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
Time					
1Mt1 Begin to understand and use some units of time, e.g. minutes, hours, days, weeks, months and years.	pages 180–189	pages 180–184	Months of the year, pages 86–90	8.1 Reading a clock 1 8.2 Reading a clock 2 8.3 Days of the week 8.4 Months of the year 8.5 Age	Days of the week, months of the year: January
1Mt2 Read the time to the hour (o'clock) and know key times of day to the nearest hour.	pages 180–184	pages 180–184	Reading a clock, pages 81–85	8.1 Reading a clock 1 8.2 Reading a clock 2	Understand and use some units of time: Draw the time
1Mt3 Order the days of the week and other familiar events.	pages 183–188	page 185		8.3 Days of the week 8.4 Months of the year 8.5 Age	Understand and use some units of time: Draw the time Days of the week, months of the year: January
Handling data					
Organising, categorising and representing data					
1Dh1 Answer a question by sorting and organising data or objects in a variety of ways, e.g. – using block graphs and pictograms with practical resources; discussing the results – in lists and tables with practical resources; discussing the results – in Venn or Carroll diagrams giving different criteria for grouping the same objects.	pages 206–213 Venn/Carroll: pages 214–217	pages 194–202 Venn/Carroll: page 202	Venn and Carroll diagrams, pages 96–100	2.2 Addition using number bonds 4.4 3D shapes 10.1 Reading and making pictographs 1 10.2 Reading and making pictographs 2 10.3 Reading Venn diagrams 10.4 Reading Carroll diagrams 10.5 Revision	Solve simple addition and subtraction problems from graphs: Butterflies Solve simple addition and subtraction problems from graphs: Numbers

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Problem solving					
Using techniques and skills in solving mathematical problems					
1Pt1 Choose appropriate strategies to carry out calculations, explaining working out.	pages 48–73, 76–78, 94–108, 112–113	pages 85–91, 99–100, 118–123	Subtraction word problems, pages 31–35		Subtraction and addition word problems: Number families Double and halve numbers: Birthday candles Subtraction and addition word problems: Number families Measure mass using non-standard units: True or false? Understand and use some units of time: Draw the time Solve simple addition and subtraction problems from graphs: Butterflies

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Pt2 Explore number problems and puzzles.	pages 74–78, 112–113			2.3 Solving addition stories 3.1 Subtraction by taking away 3.3 Subtraction as 'how many more to make?' 3.5 Subtraction and addition word problems 5.1 Comparing the length of two objects 6.2 Measuring mass 6.4 Measuring mass in units 7.1 Compare capacities of two objects 1 8.5 Age 9.2 Exchanging money 1 9.4 Exchanging money 3	Comparing numbers to 20: Medals Subtraction and addition word problems: Number families Understand and use some units of time: Draw the time Days of the week, months of the year: January Recognise and know the value of coins: Coins Work out how to pay an existing sum using coins: Shopping Solve simple addition and subtraction problems from graphs: Butterflies Solve simple addition and subtraction problems from graphs: Numbers
1Pt3 Find many combinations, e.g. combinations of three pieces of different coloured clothing.	page 63	pages 194–197, 203		4.2 Grouping shapes	Add to 20 using number bonds: Number cards Work out how to pay an existing sum using coins: Shopping

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Pt4 Decide to add or subtract to solve a simple word problem (oral), and represent it with objects.	pages 112–113		Subtraction word problems, pages 31–35	2.3 Solving addition stories 3.5 Subtraction and addition word problems 9.2 Exchanging money 1 9.4 Exchanging money 3	Subtraction and addition word problems: Number families Subtract within 20 by taking away: Beads Subtraction and addition word problems: Number families Measure capacity using non-standard units: Measuring
1Pt5 Check the answer to an addition by adding the numbers in a different order.	pages 54–61 and 109	page 62		3.4 Number sentence families	Add to 20 using number bonds: Number cards Recognise and know the value of coins: Coins
1Pt6 Check the answer to a subtraction by adding the answer to the smaller number in the question.	page 109	pages 110–113		3.4 Number sentence families	Subtract within 20 by taking away: Beads
1Pt7 Describe and continue patterns such as count on and back in tens, e.g. 90, 80, 70.		pages 38–47	Number patterns, pages 6–10	2.4 Counting by twos, fives and tens	Recognise and complete patterns in numbers to 20: Star numbers Name and identify 2D shapes: Making patterns Solve simple addition and subtraction problems from graphs: Numbers

Cambridge Primary Mathematics Curriculum Framework objectives	Student Book	Workbook	Journal	Digital Student Book	Skills Sheets
1Pt8 Identify simple relationships between numbers and shapes, e.g. this number is ten bigger than that number.	Numbers: pages 32–41, 79–84, 109–111 Shapes: pages 117–118, 120–129, 131–133		Number sentence families, pages 26–30	4.2 Grouping shapes 5.1 Comparing the length of two objects 6.2 Measuring mass 8.5 Age	Subtraction and addition word problems: Number families Name and sort 2D shapes: Collecting shapes Name and identify 2D shapes: Making patterns
1Pt9 Make a sensible estimate of a calculation, and consider whether an answer is reasonable.	pages 40–41, 84–85		Subtraction word problems, pages 31–35		Subtraction and addition word problems: Number families Compare the length of 2 or more objects: Comparing Measuring lengths: Using non-standard units Compare masses of two or more objects: Which weighs more? Compare capacity of 2 or more objects: Jars and glasses