Content Overview

ABC Mathseeds
Real learning, real maths, really fun!

Mathseeds Kindergarten: Lesson 1–50

Students learn fundamental number skills including number recognition, number words and counting. Students learn to count forwards and backwards to twenty with confidence. They use a range of techniques including ten frames and number lines. They also learn the number words up to twenty. Students learn to add to ten and their doubles facts to double five.

Students learn the four basic 2D shapes: circle, square, triangle and rectangle. They distinguish between colours and investigate some simple concepts of size: big, small, short, tall etc. Lessons cover the concepts of more time and less time, life cycles and days of the week. Students develop their understanding of 2D shapes by sorting them according to their properties. They are also introduced to the 3D shapes: sphere, cube, cone and cylinder.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
K	1	Number 1	Number & Algebra	Count to 1. Know, read and write the numeral 1. Read the word one. Represent a number of objects with a written number.
K	2	Number 2	Number & Algebra	Count to 2. Know, read and write the numeral 2. Read the word two. Represent a number of objects with a written number.
K	3	Number 3	Number & Algebra	Count to 3. Know, read and write the numeral 3. Read the word three. Represent a number of objects with a written number.
K	4	Circles	Measurement & Geometry	Name circles in the environment. Sort shapes. Name circles in different orientations and sizes.
K	5	Number 4	Number & Algebra	Count to 4. Know, read and write the numeral 4. Read the word four. Represent a number of objects with a written number. Compare 4 to other numbers. Count to answer 'How many?' questions.
K	6	Squares	Measurement & Geometry	Name squares in the environment. Sort shapes. Name squares in different orientations and sizes.
K	7	Number 5	Number & Algebra	Count to 5. Know, read and write the numeral 5. Read the word five. Represent a number of objects with a written number. Compare 5 to other numbers. Connect counting to cardinality.
K	8	Colours	Number & Algebra	Copy, continue and create patterns with objects and drawings. Identify colours. Match objects to colour name. Identify colours when two primary colours are mixed.
K	9	Triangles	Measurement & Geometry	Name triangles in the environment. Sort shapes. Name triangles in different orientations and sizes.
K	10	Numbers 1-5 Revision	Number & Algebra	Count to 5. Know, read and write the numerals 1-5. Read the words: one, two, three, four, five. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality.
K	11	Number 6	Number & Algebra	Count to 6. Know, read and write the numeral 6. Read the word six. Represent a number of objects with a written number. Compare 6 to other numbers. Connect counting to cardinality.
K	12	Number 7	Number & Algebra	Count to 7. Know, read and write the numeral 7. Read the word seven. Represent a number of objects with a written number. Compare 7 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions.
K	13	Big and Small	Measurement & Geometry	Compare objects. Use measurement language to describe objects.
K	14	Number 8	Number & Algebra	Count to 8. Know, read and write the numeral 8. Read the word eight. Represent a number of objects with a written number. Compare 8 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions.
K	15	Rectangles	Measurement & Geometry	Name rectangles in the environment. Sort shapes. Name rectangles in different orientations and sizes.
K	16	Numbers 1-8	Number & Algebra	Count 1-8. Know, read and write the numerals 1-8. Read the words: three, five, seven, eight. Represent a number of objects with a written number. Compare numbers written as numerals. Connect counting to cardinality.
K	17	Number 9	Number & Algebra	Count to 9. Know, read and write the numeral 9. Read the word nine. Represent a number of objects with a written number. Compare 9 to other numbers. Connect counting to cardinality.

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K	18	Zero, Ordering Numbers	Number & Algebra	Know, read and write the numeral 0. Read the word zero. Compare 0 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions. Compare numbers written as numerals. Sequence numbers, counting forwards.
K	19	Number 10	Number & Algebra	Count to 10. Know, read and write the numeral 10. Read the word ten. Compare 10 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions. Represent a number of objects with a written number.
K	20	Numbers 1-10 Revision	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Represent a number of objects with a written number. Compare numbers written as numerals. Sequence numbers, counting forwards and backwards.
K	21	Counting Back from 10	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Read the words: six, seven, ten. Compare groups of objects. Sequence numbers, counting backwards. Subitise small groups of objects in different formations.
K	22	More, Less and the Same	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Compare groups of objects. Use comparative language: more, less, the same. Sequence numbers, counting backwards.
K	23	2D Shapes	Measurement & Geometry	Name triangles, squares, rectangles and circles in the environment. Match and sort shapes. Name shapes in different orientations and sizes. Identify straight, wavy and zig-zag lines. Copy, continue and create patterns.
K	24	Adding to 5	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 5. Subitise small groups of objects in different formations.
K	25	Number Lines 1-10	Number & Algebra	Count to 10. Read number words to ten. Connect counting to cardinality. Sequence numbers, counting forwards and backwards. Find pairs of numbers that make 10. Count to answer 'How many?' questions.
K	26	Long and Short	Measurement & Geometry	Compare and order which is longer or shorter using everyday language. Use comparative language: big, small, short, tall, tallest, longest, shortest.
K	27	Patterns	Number & Algebra	Copy, continue and create patterns. Identify colours. Match objects to colour names.
K	28	Number Lines	Number & Algebra	Count to 10. Read number words to ten. Connect counting to cardinality. Sequence numbers, counting forwards and backwards. Count to answer 'How many?' questions. Subitise small groups of objects in different formations.
K	29	Heavy and Light	Measurement & Geometry	Compare and order which is heavier or lighter using everyday language. Use comparative language: big, small, heavy, light, heavier, lighter.
K	30	Adding to 6	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 6. Subitise small groups of objects in different formations.
K	31	Counting to 10	Number & Algebra	Sequence numbers, counting forwards and backwards. Estimate the quantity of items in a group. Compare groups of objects. Use comparative language: more, less, the same. Count to answer 'How many?' questions. Find pairs of numbers that make 10.
K	32	Add to 7	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 7. Compare groups of objects. Subitise small groups of objects in different formations.
K	33	Number Words to 10	Number & Algebra	Read the words: zero, one, two, three, four, five, six, seven, eight, nine, ten.
K	34	Add to 10	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10. Subitise small groups of objects in different formations.
K	35	The Cube & Sphere	Measurement & Geometry	Name cubes and spheres in the environment. Match and sort cubes and spheres. Identify objects that can be stacked and those that roll.
K	36	Adding to 10	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10.
K	37	Patterns 2	Number & Algebra	Copy, continue and create patterns.
K	38	Capacity	Measurement & Geometry	Use comparisons to decide which holds more or less. Use comparative language: full, empty, big, small, short, tall.
K	39	Time	Measurement & Geometry	Compare and order events using the everyday language of time.

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K	40	Add to 10 on a Number Line	Number & Algebra	Connect counting to addition. Add on a number line. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10.
K	41	Numbers 11 & 12	Number & Algebra	Count to 12. Know, read and write the numerals 11 & 12. Read number words to twelve. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality. Subitise small groups of objects in different formations.
K	42	Days of the Week	Measurement & Geometry	Connect days of the week to familiar events and actions.
K	43	Numbers 13, 14 & 15	Number & Algebra	Count to 15. Know, read and write the numerals 13, 14, 15. Read number words to fifteen. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality.
K	44	The Cone & Cylinder	Measurement & Geometry	Name cones and cylinders in the environment. Match and sort cones and cylinders. Name cones and cylinders in different sizes.
K	45	Numbers 16 & 17	Number & Algebra	Count to 17. Know, read and write the numerals 16 & 17. Read number words to seventeen. Represent a number of objects with a written number. Compose and decompose the numbers 11, 12, 13, 15 into tens and ones. Compare groups of objects. Use comparative language: more, less, the same.
K	46	Numbers 18, 19 & 20	Number & Algebra	Count to 20. Know, read and write numbers to 20. Read number words to twenty. Represent a number of objects with a written number. Compose and decompose the numbers 12, 14, 16, 19 into tens and ones. Compare groups of objects. Use comparative language: more, less, the same.
K	47	Subtraction 1	Number & Algebra	Solve subtraction problems using objects and equations. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems.
K	48	Number Words 11-20	Number & Algebra	Count to 20. Read number words to twenty.
K	49	Doubles to Double 5	Number & Algebra	Connect counting to addition. Model addition. Write equations for addends to 10. Find pairs of numbers that make 10. Subitise small groups of objects in different formations.
K	50	Revision 0-20	Number & Algebra	Count to 20. Know, read and write numbers to 20. Read number words to twenty. Compose and decompose teen numbers into tens and ones. Use comparative language: smaller, larger. Sequence numbers, count forwards and backwards.

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Mathseeds Year 1: Lesson 51–100

Students learn to count to 100, order numbers and identify ordinal numbers to 10th. They develop an understanding of place value including regrouping. Students practice their subtraction skills. They add and subtract to 10, and then within 100. Strategies include counting on, counting back, near doubles and using number fact families. Students learn how to skip count by 2s, 5s and 10s, as well as the early multiplication and division skills of grouping and sharing.

Students identify notes and coins, and use addition to find amounts of money. They explore fractions, focusing on wholes, halves and quarters. Students continue to investigate the features of 2D shapes and 3D objects. They follow simple directions to a particular location and learn to read clocks to the half-hour. They work with early chance concepts, tally charts and simple picture graphs.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	51	Addition to 10 with Two and Three groups	Number & Algebra	Solve addition of three whole numbers. Use the count on strategy. Represent numerals with objects to solve addition problems. Understand the equals sign and work out if addition equations are true or false.
1	52	Sorting and Grouping 2D Shapes	Measurement & Geometry	Recognise and classify familiar two-dimensional shapes. Compose two-dimensional shapes. Match two-dimensional shapes to their names. Identify shapes as two-dimensional or three-dimensional.
1	53	Subtraction 2	Number & Algebra	Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation. Find pairs of numbers that make 10.
1	54	O'clock	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks. Use comparative language: longer time, shorter time.
1	55	Near and Far	Measurement & Geometry	Compare and select which is longer or shorter. Sort objects according to height. Describe position and movement using the everyday language of location and direction. Use comparative language: near, far, behind, in front, on, next to, big, small, short, tall, longest, shortest.
1	56	Number Lines to 20	Number & Algebra	Count to 20. Read number words to twenty. Sequence numbers, counting forwards and backwards. Count to answer 'How many?' questions. Connect counting to addition. Model addition for addends to 10.
1	57	Position 1	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, next to, between, forward, under.
1	58	Subtraction on a Number Line	Number & Algebra	Solve subtraction problems using a number line. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	59	Area	Measurement & Geometry	Understand that area measures how much a surface covers. Sort objects according to height. Sort objects according to area. Compare to identify and order area. Count to measure area. Use comparative language: big, small, short, tall, largest, smallest.
1	60	Counting 20-30	Number & Algebra	Count to 30 starting at any number. Read and write numerals. Represent a number of objects with a written numeral. Compose two-digit numbers using tens and ones. Compare groups of objects. Use comparative language: larger, smaller.
1	61	Wholes and Halves	Number & Algebra	Partition objects into halves. Identify and colour one half of different 2D shapes. Recognise to share equalsly between two, each share is one half. Read fraction notation.
1	62	Sorting and Grouping 3D Objects	Measurement & Geometry	Identify shapes that stack. Identify shapes that roll. Identify shapes that slide. Name 3D objects. Identify the number of sides and corners on a 3D object.
1	63	Ordinal Numbers	Number & Algebra	Read and represent position using ordinal numbers in a sequence.
1	64	Money	Number & Algebra	Count and order money. Solve addition problems using coins. Solve addition problems involving money.

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YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	65	Addition to 20	Number & Algebra	Solve addition of three whole numbers. Use the count on strategy. Solve addition problems using a number line. Solve addition problems by counting by twos. Compose numbers from 11 to 19 into tens and ones. Make number bonds for numbers to 20.
1	66	Halves and Quarters	Number & Algebra	Partition objects into halves and quarters. Identify and colour one half and one quarter of different 2D shapes. Recognise to share equalsly between two, three and four. Read fraction notation.
1	67	Counting 30-40	Number & Algebra	Count to 40 starting at any number. Read and write numerals. Represent a number of objects with a written numeral. Compose two-digit numbers using tens and ones. Make number bonds to 30 with three addends.
1	68	Find the Difference 1	Number & Algebra	Solve subtraction problems using find the difference. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	69	Putting Shapes Together	Measurement & Geometry	Compose two-dimensional shapes to create a composite shape. Compose three-dimensional objects to create a composite object.
1	70	O'clock & Half-Past	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks. Use comparative language: longer time, shorter time.
1	71	Sharing 1	Number & Algebra	Share a collection of objects into two, three, four or six equals groups.
1	72	Doubles to Double 10	Number & Algebra	Solve addition problems using doubles as a strategy. Compare groups of objects. Use comparative language: larger, smaller. Find pairs of numbers that make 10. Solve addition of three whole numbers. Make number bonds for numbers to 20.
1	73	Mass	Measurement & Geometry	Compare and order which is heavier or lighter. Use comparative language: heavy, heavier, heaviest, light, lighter, lightest, balance.
1	74	Grouping	Number & Algebra	Sort and describe a collection of objects as a group. Represent multiplication as groups through equals sharing. Identify collections with the same number of objects. Count out groups to answer 'How many?' questions. Skip count to find the total.
1	75	Counting 40-50	Number & Algebra	Count to 50 starting at any number. Read and write numerals. Compose two-digit numbers using tens and ones. Make number bonds for numbers to 20. Make number bonds to 30 with three addends.
1	76	The Equals Sign	Number & Algebra	Understand the equals sign. Work out if an equation using an equals sign is true or false. Make number bonds for numbers to 20.
1	77	Skip Counting by 2s & 5s	Number & Algebra	Solve problems counting by twos and fives. Solve problems on the number line counting by twos and fives. Find groups of two. Count out groups to answer 'How many?' questions.
1	78	Position 2	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, next to, between, forward, under.
1	79	Counting by 10s	Number & Algebra	Sort objects into groups of ten. Recognise ten as a bundle of ten ones. Skip count by tens. Compose two-digit numbers using tens and ones. Count and create collections by partitioning numbers using place value.
1	80	Data 1	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	81	Counting 50-70	Number & Algebra	Count to 70 starting at any number. Read and write numerals. Order numbers on a number line. Order numbers on a number chart. Compare groups of objects. Use comparative language: larger, smaller. Count and create collections by partitioning numbers using place value.
1	82	Chance 1	Statistics & Probability	Identify outcomes of familiar events. Use everyday chance language: will happen, won't happen, might happen, possible, impossible. Use comparative language: more likely, less likely.
1	83	Money 2	Number & Algebra	Solve addition problems involving money. Identify coins and notes. Match money to symbols: $, c. Compare the cost of items. Use different denominations of notes and coins to make amounts. Solve subtraction problems requiring change.
1	84	Measuring Length	Measurement & Geometry	Compare and select which is longer or shorter. Measure and compare the lengths of pairs of objects using uniform informal units. Sort objects according to length. Use comparative language: longer, longest, shorter, shortest.

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YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	85	Find the Difference 2	Number & Algebra	Solve subtraction problems using find the difference. Represent objects with a written numeral to solve subtraction problems. Solve subtraction problems using a number line. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	86	Counting 70-100	Number & Algebra	Count to 100 starting at any number. Read and write numerals. Order numbers on a number line. Order numbers on a number chart. Compare groups of objects. Use comparative language: larger, smaller. Understand the meaning of the equals sign to determine true or false.
1	87	Half-Past and Digital Time	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks.
1	88	Trading Tens	Number & Algebra	Sort objects into groups of ten. Recognise ten as a bundle of ten ones. Compose two-digit numbers using tens and ones. Count and create collections by partitioning numbers using place value. Order numbers on a number chart.
1	89	Capacity 2	Measurement & Geometry	Use comparisons to decide which holds more or less. Use comparative language: empty, full, least, most. Compare capacities using a range of containers. Measure the capacity of a container using informal units.
1	90	Skip Counting	Number & Algebra	Skip count by twos and fives. Make number bonds for numbers to 20. Solve problems for the addition of three whole numbers. Use repeated addition to model and answer multiplication questions.
1	91	Near Doubles to 20	Number & Algebra	Solve addition problems using the near doubles strategy. Use add to ten first as an addition strategy. Skip count by fives. Find different sums that add to make the same number. Solve addition of three whole numbers. Make number bonds for numbers to 20. Count and create numbers by partitioning numbers using place value.
1	92	Change from $20	Number & Algebra	Solve addition problems involving money. Identify coins and notes. Match money using symbols: $, c. Compare the cost of items. Use different denominations of notes and coins to make amounts. Solve subtraction problems requiring change.
1	93	Number Fact Families	Number & Algebra	Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Understand the equals sign. Work out if addition equations are true or false. Subitise small groups of objects in different formations.
1	94	Position 3	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, beneath, underneath, on top of, next to, between, beside, forward, under, clockwise, anticlockwise.
1	95	Add Within 100	Number & Algebra	Add a two-digit number and a one-digit number. Use strategies based on place value. Add two-digit numbers requiring sometimes to compose a ten. Add on a number line. Order numbers on a number chart. Solve addition problems using counting on as a strategy. Solve word problems using addition. Add multiples of ten to a two-digit number. Recognise different number combinations that make number fact families.
1	96	Bridging to Ten	Number & Algebra	Solve addition problems using the bridge to ten strategy. Solve addition problems using a number line. Write equations to solve addition problems. Understand the equals sign. Work out if addition equations are true or false. Use comparative language: larger, smaller. Solve addition problems using the jump strategy. Add multiples of ten to a two-digit number.
1	97	Data 2	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	98	Add and Subtract Tens	Number & Algebra	Add and subtract multiples of ten to a two-digit number. Add and subtract on a number line. Add and subtract using a numbers chart. Understand the equals sign. Work out if addition equations are true or false. Solve addition problems by using the count on strategy. Subitise small groups of objects in different formations.
1	99	3D Objects	Measurement & Geometry	Recognise and sort two-dimensional shapes that are the faces of three-dimensional objects. Identify prisms. Identify faces of prisms. Recognise features of prisms. Identify objects shaped as prisms.
1	100	Subtracting Unknown Numbers	Number & Algebra	Find the unknown number in a subtraction equation. Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Solve subtraction problems by using the count on strategy. Solve subtraction problems requiring change.

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Mathseeds Year 1: Lesson 51–100

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	97	Data 2	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	98	Add and Subtract Tens	Number & Algebra	Add and subtract multiples of ten to a two-digit number. Add and subtract on a number line. Add and subtract using a numbers chart. Understand the equals sign. Work out if addition equations are true or false. Solve addition problems by using the count on strategy. Subitise small groups of objects in different formations.
1	99	3D Objects	Measurement & Geometry	Recognise and sort two-dimensional shapes that are the faces of three-dimensional objects. Identify prisms. Identify faces of prisms. Recognise features of prisms. Identify objects shaped as prisms.
1	100	Subtracting Unknown Numbers	Number & Algebra	Find the unknown number in a subtraction equation. Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Solve subtraction problems by using the count on strategy. Solve subtraction problems requiring change.

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Mathseeds Year 2: Lesson 101–150

Students learn to count to 1000, identify odd and even numbers and round to the nearest 10 and 100. They build their place value skills, composing and decomposing numbers to 999. Students develop addition and subtraction strategies including the 'jump' and 'split' methods, as well as vertical addition and subtraction. Students practice grouping and sharing, and use the multiplication and division signs. They learn how to find a fraction of a collection of items.

Students investigate length and learn how to measure in metres and centimetres. They work with 2D shapes, make patterns that move and reflect, and study the features of 3D objects. Students tell time to the nearest 5 minutes and use a calendar to identify particular dates. They construct tally charts and picture graphs, and interpret data in a variety of ways.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	101	Counting 100-500	Number & Algebra	Read and write numbers to 500. Count to 500 using base-ten numerals, number names, and expanded form. Know three-digit numbers represent amounts of hundreds, tens, and ones. Add 1, 10 or 100 to a given number 100-900. Subtract 1, 10 or 100 from a given number 100-900.
2	102	Moving Shapes	Measurement & Geometry	Understand the effect of one-step slides, flips and turns. Know that moved objects do not alter size or features. Identify a quarter and half turn. Tessellate shapes.
2	103	Adding 9	Number & Algebra	Use the jump strategy to add 9 to numbers. Understand the equals sign. Work out if addition equations are true or false. Subitise small groups of objects in different formations.
2	104	Measuring	Measurement & Geometry	Estimate lengths using metres. Measure lengths using metres. Compare lengths. Use comparative language: more than 1m; 1m; less than 1m.
2	105	Partitioning Numbers to 1000	Number & Algebra	Read and write numbers to 500. Count to 500 using base-ten numerals, number names, and expanded form. Know three-digit numbers represent amounts of hundreds, tens, and ones. Compose and decompose two- and three-digit numbers using tens and ones.
2	106	Counting 500-1000	Number & Algebra	Count within 1000. Skip-count by 100s. Add 1, 10 or 100 to a given number 100-900. Subtract 1, 10 or 100 from a given number 100-900. Use a number square to help skip count by 5s.
2	107	Chance 2	Statistics & Probability	Identify outcomes of familiar events involving chance. Use everyday chance language: will happen, won't happen, might happen, possible, impossible. Use comparative language: more likely, less likely.
2	108	Odd and Even Numbers	Number & Algebra	Determine if a number is odd or even. Use rules to add odd and even numbers.
2	109	The Calendar	Measurement & Geometry	Use a calendar to identify the date. Determine the number of days in each month. Sequence months of the year. Countdown to dates using a calendar. Sequence days of the week.
2	110	Take Away by Partitioning	Number & Algebra	Solve subtraction problems using the jump strategy. Fluently subtract within 30. Use place value to partition numbers to solve subtraction problems. Solve subtraction word problems. Subtract multiples of ten from a two-digit number.
2	111	Sharing 2	Number & Algebra	Share a collection of objects into two, three, four or six equals groups. Arrange groups into arrays. Use addition to find the total number of objects in arrays. Count groups of objects.
2	112	Area 2	Measurement & Geometry	Understand that area measures how much a surface covers. Sort objects according to height. Sort objects according to area. Use informal measurement to count area. Compare to identify and order which is larger or smaller.
2	113	Grouping 2	Number & Algebra	Count groups of objects. Recognise grouping as repeated addition. Use a number line to skip count. Write an equation to show the total as a sum of equals addends. Solve word problems by grouping and counting.
2	114	Quarter to and Quarter after	Measurement & Geometry	Tell time to the quarter-hour. Use language of time: quarter past, quarter to. Recognise the position of clock hands when showing quarter to or quarter past. Sequence months of the year. Countdown to dates using a calendar. Sequence days of the week.
2	115	Multiplying Groups	Number & Algebra	Recognise multiplication as repeated addition, groups and arrays. Write an equation using signs: ×, =. Use language of multiplication: groups of, multiply. Multiply groups by 1, 2, 3, 4, 5.

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Mathseeds Year 2: Lesson 101–150

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	116	Volume	Measurement & Geometry	Recognise volume as how much space. Use comparative language: less, more, big, bigger, biggest, small, smaller, smallest. Informally measure volume. Record informal measurements for volume.
2	117	Skip Counting Patterns	Number & Algebra	Skip count forwards and backwards by threes, fives, tens, hundreds.
2	118	Word Problems: + and –	Number & Algebra	Solve addition word problems. Solve subtraction word problems.
2	119	The Rhombus	Measurement & Geometry	Name rhombuses in the environment. Sort shapes. Name rhombuses in different orientations and sizes. Identify parallel lines. Compose two-dimensional shapes to create a composite shape. Identify properties of 2D and 3D shapes.
2	120	Addition 1	Number & Algebra	Solve addition problems using the jump strategy and skip counting. Fluently subtract within 30. Use place value to partition numbers to solve addition problems. Solve addition word problems. Add multiples of ten to a two-digit number.
2	121	Different Views of 3D Objects	Measurement & Geometry	Recognise the top, front, side and base of 3D objects. Identify and count the numbers of vertices.
2	122	Comparing Numbers	Number & Algebra	Use < = > symbols. Compare pairs of numbers starting with a single-digit and building to 2-digit and 3-digit numbers.
2	123	5 Minute Intervals	Measurement & Geometry	Understand that there are 60 minutes in an hour, and that there are 5 minute intervals between numbers. Match the time on an analogue clock to a digital time shown in 5 minute intervals.
2	124	Subtraction Algorithm	Number & Algebra	Use vertical subtraction. Subtract two single-digit numbers with no regrouping and subtract a single-digit number from a double digit number with no regrouping.
2	125	Equivalent Amounts of Money	Number & Algebra	Match amounts with equivalent coins. Use 2 coins, 3 coins and 4 coins.
2	126	Measuring Centimetres	Measurement & Geometry	Use the centimetre as a formal unit of measure. Measure an object twice using informal units and centimetres, and measure to determine how much longer one item is than another.
2	127	Elapsed Time	Measurement & Geometry	Calculate how much time has elapsed between 2 specific times to the hour and half hour.
2	128	Addition 2	Number & Algebra	Use vertical addition. Add two 2-digit numbers with no regrouping and add 2 three-digit numbers with no regrouping.
2	129	Rounding Numbers	Number & Algebra	Use a number line. Identify the 'midpoint' and round numbers within 100 up or down to the nearest ten.
2	130	Word Problems: Multiplication	Number & Algebra	Introduce multiplication word problems that use the strategy of 'creating a picture'.
2	131	Word problems: Working Backwards	Number & Algebra	Work backwards to solve a word problem. Use addition and subtraction number sentences.
2	132	Fractions	Number & Algebra	Revise halves and quarters, and introduce the term 'eighths'. Identify items that have been cut into equals halves, quarters and eighths.
2	133	Number Patterns 1	Number & Algebra	Identify a pattern in order to complete a number pattern: +2 pattern, –10 pattern, +100 pattern. Presented as word problems.
2	134	Subtract 3-digit Numbers	Number & Algebra	Practice vertical subtraction. Subtract two 2-digit numbers with no regrouping. Subtract two 3-digit numbers with no regrouping.
2	135	Comparing Mass	Measurement & Geometry	Use non-standard units to measure the mass of different items. Count the units using tally marks. Present the information as a picture graph and interpret the graph.
2	136	The Division Sign	Number & Algebra	Use the division sign. Share items between groups and divide using a number line.
2	137	Word Problems: Make a Table	Number & Algebra	Solve a word problem by organising information in a table.
2	138	Finding Fractions of a Collection	Number & Algebra	Investigate a half, third, quarter and eighth of a share. Understand that the denominator tells you how many groups to make.
2	139	2-Step Problem Solving	Number & Algebra	Break a word problem into 2 separate sums. Focus on just addition, addition and subtraction sums, and just subtraction.

Content Overview

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Mathseeds Year 2: Lesson 101–150

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	140	Revision	Number & Algebra	Revise vertical addition and subtraction, grouping and fractions. Identify the properties of 2D shapes and 3D objects. Measure length in cm, match analogue and digital times and compare area in square units. Interpret picture graphs.
2	141	Word Problems: Length	Measurement & Geometry	Solve multi-step word problems involving length using a range of addition and subtraction strategies. These include creating a picture to find the difference, using a number line, mentally counting on by tens and exploring related number facts.
2	142	Fluent Facts within 20	Number & Algebra	Use number bonds to 10 and then to 20 to fluently complete addition equations. Apply knowledge of related addition and subtraction number facts to solve subtraction equations within 20.
2	143	Comparing Lengths using Data	Statistics & Probability	Measure different lengths in metres and construct a bar graph to show the results. Interpret the bar graph to answer questions.
2	144	Adding within 1000	Number & Algebra	Explore 3 different strategies to add two 3-digit numbers: use base 10 equipment to decompose and compose numbers; use vertical addition; use a number line.
2	145	Quadrilaterals	Measurement & Geometry	Understand that shapes with 4 sides are called quadrilaterals. Identify quadrilaterals from a range of shapes. Identify how many sets of parallel lines a shape has and determine if it is a quadrilateral.
2	146	Subtracting within 1000	Number & Algebra	Explore 3 different strategies to subtract two 3-digit numbers: use base 10 equipment to decompose and compose numbers; use vertical subtraction; use a number line.
2	147	Word Problems: Money	Number & Algebra	Solve multi-step word problems that involve adding the cost of three items to find the total; determining how much more money is needed to buy an item; adding the cost of three items and giving change from $5.
2	148	Mentally Adding and Subtracting	Number & Algebra	Use strategies to mentally add and subtract 10 or 100 to or from a given number 100-900.
2	149	Area of Rectangles	Measurement & Geometry	Revision of area. Partition rectangles into square units; count square units to measure area; compare the areas of 2 shapes; create shapes based on a given area.
2	150	Adding and Subtracting 4-digit Numbers	Number & Algebra	Add and subtract up to four 2-digit numbers using a variety of strategies including vertical algorithms, number lines and related number facts.

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Mathseeds Year 3: Lesson 151–200

Students learn to count to 10 000, using place value to order numbers. They explore number patterns created by adding and subtracting, including the Fibonacci Sequence. Students begin to learn the times tables, aiming to know all products of two single-digit numbers by the end of year 3. They also learn about the parts of a fraction and explore how fractions relate to each other.

Students investigate symmetry and area in 2D shapes and in real world contexts. They measure liquids in litres and millilitres, time in minutes, and mass in grams and kilograms. They recognise notes and coins, and find equivalent amounts of money and correct change.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	151	Counting 1000–5000	Number & Algebra	Order numbers on a number line, counting forwards and backwards in thousands, hundreds and tens. Order numbers from smallest to largest.
3	152	Symmetry	Measurement & Geometry	Explore vertical and horizontal lines of symmetry. Identify images in the environment that are symmetrical.
3	153	Number Patterns 2	Number & Algebra	Identify addition and subtraction number patterns. Explore the Fibonacci Sequence and follow a rule to create a number pattern. Identify the rule to create a number pattern.
3	154	Litres & Millilitres	Measurement & Geometry	Introduce the litre and millilitre as units of measure. Understand that 1 L = 1 litre and 1 ml = 1 millilitre, and that 1 L = 1000 ml. Determine if a vessel holds more than, less than or is equal to 1 L. Read increments on measuring jugs in litres and millilitres to determine the amount of liquid there is.
3	155	Multiplication Revision	Number & Algebra	Revise multiplication strategies including repeated addition, grouping items together and using the multiplication sign in a number sentence. Solve multiplication word problems using the 'create a picture' strategy to help visualise the problem.
3	156	Counting 5000–10 000	Number & Algebra	Model a number using base 10 equipment and match the number to its name. Place numbers on a number line and count forwards and backwards in thousands, hundreds and tens. Add +1, +10, +100 to a number.
3	157	Area 3	Measurement & Geometry	Count squares to measure area. Multiply the number of squares (length) by the number of squares (width). Multiply length x width to find the area in m^2.
3	158	Times Tables: x2, x4	Number & Algebra	Explore the ×2, ×4 tables. Identify patterns in a hundred chart and understand that 2 × 2 means two groups of two.
3	159	Money: Equivalent Amounts 2	Number & Algebra	Count collections of coins and notes to determine the value. Understand that the same amount can be presented in different combinations of currency. Match different currency combinations to a given amount. Find the correct change combinations from a given amount up to $50.
3	160	Comparing & Ordering Fractions	Number & Algebra	Understand the role of the top and bottom numbers in a fraction, and use the term 'denominator'. Compare the sizes of fractions, including mixed numbers up to 2. Order simple fractions and mixed numbers on a number line. Fractions used: $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{8}$.
3	161	Partitioning Numbers	Number & Algebra	Use place value to partition and rearrange numbers up to 9999. Recognise the value of each digit in 4-digit numbers. Increase the value of numbers by addition, and compare values using mathematical symbols.
3	162	Time to the Minute	Measurement & Geometry	Recognise that there are 60 minutes in an hour, and tell time to the nearest minute.
3	163	Equivalent Number Sentences	Number & Algebra	Explore the connection between addition and subtraction using wholes and parts, related number facts and equivalent number sentences.
3	164	Maps	Measurement & Geometry	Identify features and places on a simple map using basic coordinates and compass directions.
3	165	Division	Number & Algebra	Revision of grouping and sharing using the division sign and related number facts.
3	166	Odd & Even Numbers 2	Number & Algebra	Identify odd and even numbers using skip counting by twos on number lines and charts. Explore odd and even number patterns.
3	167	Chance 3	Statistics & Probability	Investigate different chance experiments. Identify outcomes and possibilities and record results.

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Mathseeds Year 3: Lesson 151–200

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	168	Multiplication Word Problems 2	Number & Algebra	Use multiplication facts and related number facts to solve a variety of word problems. Explore the use of different strategies to solve problems.
3	169	Prisms and Pyramids	Measurement & Geometry	Identify prisms and pyramids and describe their key features.
3	170	Addition 3	Number & Algebra	Use vertical addition. Add two 3-digit numbers and introduce regrouping.
3	171	Times Tables 2: x8	Number & Algebra	Explore the 4x and 8x tables. Identify number patterns and investigate the associative property of multiplication.
3	172	Kilograms & Grams	Measurement & Geometry	Measure and compare the mass of objects using grams and kilograms. Use a range of operations to solve one-step word problems involving mass.
3	173	Mental + - Strategies	Number & Algebra	Use the compensation strategy to add and subtract numbers mentally.
3	174	Data 3	Statistics & Probability	Collect data and draw a scaled picture graph. Solve one-step and two-step questions by interpreting the information presented in the graph.
3	175	Comparing Fractions of a Collection	Number & Algebra	Investigate a half, a quarter, a third, a fifth and a tenth of a share. Understand that the denominator tells you how many groups to make. Compare quantities by comparing unit fractions with different denominators.
3	176	Times Tables 3: Mental Facts	Number & Algebra	Explore times tables, including the 3x and 6x tables. Identify number patterns and investigate the distributive property of multiplication.
3	177	Angles	Measurement & Geometry	Understand that angles are properties of 2D shapes and measures of turn. Identify angles in the environment and compare their sizes.
3	178	Subtraction with Regrouping	Number & Algebra	Apply place value to subtract two 3-digit numbers. Use a variety of strategies to demonstrate regrouping when subtracting.
3	179	Comparing Times	Measurement & Geometry	Compare the duration of an event, recognising that time can be recorded in minutes, seconds and hours. Understand the difference between am and pm time.
3	180	Equivalent Fractions	Number & Algebra	Recognise equivalent fractions that are the same size or at the same point on a number line. Compare equivalent fractions.
3	181	Number Fact Families 2	Number & Algebra	Solve problems using the commutative property of multiplication. Recognise different number combinations that make number fact families when multiplying and dividing.
3	182	Metres, Centimetres & Millimetres	Measurement & Geometry	Measure and compare objects using metres, centimetres and millimetres. Recognise which unit of measure is the most appropriate for the situation.
3	183	Solving Word Problems	Number & Algebra	Solve a variety of addition and subtraction word problems using different strategies.
3	184	Properties of 2D Shapes	Measurement & Geometry	Revise the different categories of 2D shapes and group shapes according to their attributes.
3	185	Adding Fractions	Number & Algebra	Add simple fractions that share the same denominator. Solve simple word problems.
3	186	Multiplication	Number & Algebra	Use vertical multiplication. Multiply 1 digit by 1 digit, and 2 digits by 1 digit.
3	187	Creating Graphs	Statistics & Probability	Collect data and draw a scaled bar graph. Solve one-step and two-step questions by interpreting the information presented in the graph.
3	188	Problem Solving	Number & Algebra	Solve word problems that involve the four operations. Interpret the question and determine the appropriate operation to solve the problem.
3	189	Time Word Problems	Measurement & Geometry	Solve word problems that focus on time. Use addition and subtraction to calculate time intervals in minutes.
3	190	Division 2	Number & Algebra	Recall division facts, and solve problems where there is an unknown quotient.
3	191	Fraction Word Problems	Number & Algebra	Solve word problems that include finding the fraction of a collection of objects, equivalent fractions and adding fractions.
3	192	Perimeter	Measurement & Geometry	Find the perimeter of a variety of shapes. Calculate perimeters of shapes where all sides are given, or where there is an unknown length. Investigate shapes that have different areas but the same perimeters.

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Mathseeds Year 3: Lesson 151–200

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	193	Multiplication 2	Number & Algebra	Use a variety of strategies to multiply one-digit numbers by multiples of 10.
3	194	Rounding to the Nearest 100	Number & Algebra	Use a number line. Identify the 'midpoint' and round up or down to the nearest hundred.
3	195	Fluent Facts within 1000	Number & Algebra	Use a range of strategies to fluently add and subtract numbers up to and within 1000.
3	196	Division Word Problems	Number & Algebra	Solve word problems that involve division. Interpret the questions and determine unknown quotients.
3	197	Whole Number Fractions	Number & Algebra	Recognise that whole numbers can be written as fractions. Identify whole number fractions on a number line and compare sizes.
3	198	Measurement Data	Statistics & Probability	Measure items using centimetres and record data using a graph. Record measurements in whole numbers, halves and quarters. Interpret the results.
3	199	Fluent x ÷ within 100	Number & Algebra	Use a range of strategies to fluently multiply and divide numbers within 100.
3	200	Area Problem Solving	Measurement & Geometry	Interpret and solve problems involving area. Find the areas of various rectangles using an additive approach.