IXL Skill Plan

The Northern Ireland Curriculum: Key Stage 1, Primary 3

Use IXL's interactive skill plan to get up-to-date skill alignments, assign skills to your students, and track progress.

uk.ixl.com/maths/skill-plans/the-northern-ireland-curriculum-key-stage-1-primary-3

Processes in Mathematics

Making and Monitoring Decisions

Select the materials and mathematics appropriate for a task

1. Which metric unit of length is appropriate? 9FB
2. Which metric unit of mass is appropriate? BNF
3. Which metric unit of volume is appropriate? EXL

Develop different approaches to problem-solving

Addition

1. Addition sentences for word problems - sums up to 10 CY9
2. Addition word problems - sums up to 20 EQL
3. Addition word problems - up to two digits B2Q

Subtraction

4. Subtraction word problems - up to 10 VYM
5. Subtraction word problems - up to 20 KSP
6. Subtraction word problems - up to two digits Z8M

Mixed operations

7. Word problems with change unknown - up to 10 8PT
8. Word problems with start unknown - up to 10 7X6
9. Word problems with one addend unknown - up to 10 ZEB
10. Word problems involving addition and subtraction - up to 10 M97
11. Addition and subtraction word problems - up to 20 ALH
12. Addition and subtraction word problems - up to 100 ALQ
13. Two-step addition and subtraction word problems - up to 100 RVX

Begin to organise their own work and work systematically

Communicating Mathematically

Understand mathematical language and be able to use it to talk about their work

Numbers

1. Ordinal numbers PC7
2. Convert words to digits W2Z
3. Convert digits to words WJS
4. Write digits given words BVE
5. Write words given digits 24F
6. Convert between digits and words - mixed review TXG

Mixed operations

7. Turn words into an addition sentence - sums up to 10 G45
8. Turn words into a subtraction sentence - up to 10 CZT
9. Addition and subtraction terms FFA
10. Multiplication and division terms TBG

Shapes

11. Name the two-dimensional shape 6RX
12. Select two-dimensional shapes NVV
13. Two-dimensional and three-dimensional shapes 6HB
14. Name the three-dimensional shape DGH
15. Select three-dimensional shapes XP9

Position

16. Left, middle and right WJN
17. Top, middle and bottom CB8
18. Location in a grid BTJ
19. Above and below 2LD
20. Beside and next to 82A
21. Flip, turn and slide TLE

Represent work in a clear and organised way, using symbols where appropriate

1. Which sign makes the number sentence true? YNS

Mathematical Reasoning

Recognise simple patterns and relationships and make predictions

Counting patterns

1. Count by twos, fives and tens with pictures 2RL
2. Count by twos, fives and tens XLW
3. Count by 2, 3, 5 and 10 - with tables 2WY
4. Sequences - count up and down by 1, 2, 3, 5 and 10 XM8
5. Sequences - count up and down by 100 9GG

Repeating patterns

6. Introduction to patterns SUV
7. Find the next shape in a pattern RYR
8. Complete a pattern M2C
9. Make a pattern 2NR

Growing patterns

10. Growing patterns VYU
11. Find the next shape in a growing pattern RHF
12. Find the next row in a growing pattern MHL

Ask and respond to open-ended questions

Explain their way of working

Know ways to check their own work

Number

Understanding Number and Number Notation

Count, read, write and order whole numbers, initially to 10, progressing to at least 1000

Count up to 40

1. Counting review - up to 10 48S
2. Count to fill a ten frame B49
3. Counting review - up to 20 F68
4. Count on ten frames - up to 40 YCW

Count up to 100

5. Count objects to 100 Y8T
6. Count forward and backward 8QB
7. Number lines - up to 100 SDT
8. Count on the hundred chart W5F

Skip count up to 100

9. Count by twos, fives and tens with pictures 2RL
10. Count by twos, fives and tens XLW
11. Count by 2, 3, 5 and 10 - with tables 2WY
12. Sequences - count up and down by 1, 2, 3, 5 and 10 XM8

Skip count up to 120

13. Sequences - count up and down by 100 9GG

Read and write numbers

14. Convert words to digits W2Z
15. Convert digits to words WJS
16. Write digits given words BVE
17. Write words given digits 24F
18. Convert between digits and words - mixed review TXG

Order numbers

19. Put numbers in order FGW

Understand the empty set and the conservation of number

Understand that the place of the digit indicates its value	**Value of a digit** 1. Identify a digit - tens and ones TCL 2. Value of a digit - tens and ones FT2 **Tens and ones** 3. Build and partition teen numbers 6XX 4. Place value models up to 20 L59 5. Build and partition multiples of ten Z7A 6. Build and partition two-digit numbers - with models VNB 7. Place value models for two-digit numbers VJ6 8. Build and partition two-digit numbers - without models AZY
Make a sensible estimate of a small number of objects and begin to approximate to the nearest 10 or 100	1. Estimate to the nearest ten DTT
Recognise and use simple everyday fractions	**Equal parts** 1. Equal parts WRD **Halves, thirds and quarters** 2. Halves and quarters Y9K 3. Halves, thirds and quarters VFA 4. Halves, thirds and quarters: what fraction does the shape show? ZVP 5. Halves, thirds and quarters: which shape matches the fraction? AHL 6. Halves, thirds and quarters: parts of a group EJP 7. Halves, thirds and quarters of number lines 9CL 8. Halves, thirds and quarters of a whole: modelling word problems BHA 9. Halves, thirds and quarters of a whole: word problems BMY **Fractions up to tenths** 10. Fractions up to tenths: what fraction does the shape show? HUF 11. Fractions up to tenths: which shape matches the fraction? EXR 12. Fractions up to tenths: parts of a group 7WG

13. Fractions up to tenths: word problems 87D
14. Fractions of a whole up to tenths: modelling word problems L6X
15. Fractions of a whole up to tenths: word problems 78S

Patterns, Relationships and Sequences in Number

Copy, continue and devise repeating patterns	1. Introduction to patterns SUV 2. Find the next shape in a pattern RYR 3. Complete a pattern M2C 4. Make a pattern 2NR
Explore patterns in number tables	1. Count by 2, 3, 5 and 10 - with tables 2WY
Understand the commutative property of addition and the relationship between addition and subtraction	1. Add in any order 6AR 2. Relate addition and subtraction sentences - up to 10 6T9 3. Use addition to subtract - up to 10 FYU 4. Related addition facts 27B 5. Relate addition and subtraction sentences - up to 20 P7B 6. Use addition to subtract - up to 20 YGM
Understand the use of a symbol to stand for an unknown number	**Addition** 1. Complete the addition sentence - make ten CUK 2. Complete the addition sentence - sums up to 10 PA9 3. Complete the addition sentence - sums up to 20 SGF **Subtraction** 4. Complete the subtraction sentence - up to 10 FKM 5. Complete the subtraction sentence - up to 20 FNW **Multiplication** 6. Multiplication facts for 2, 5, 10: find the missing factor LUZ
Understand and use simple function machines	

Operations and their Applications

Understand the operations of addition, subtraction, multiplication and division (without remainders) and use them to solve problems

Add within 10

1. Add with cubes - sums up to 10 ERW
2. Add with pictures - sums up to 10 JEM
3. Addition sentences up to 10: which model matches? 8RT
4. Addition sentences up to 10: what does the model show? LVZ
5. Addition sentences using number lines - sums up to 10 VDW
6. Addition word problems with pictures - sums up to 10 2CR
7. Addition sentences for word problems with pictures - sums up to 10 XCH

Add within 20

8. Add with pictures - sums up to 20 BGT

Subtract within 10

9. Subtract with cubes - up to 10 97Q
10. Subtract with pictures - up to 10 UWP
11. Subtraction sentences up to 10: which model matches? 46A
12. Subtraction sentences up to 10: what does the model show? DVT
13. Subtraction sentences up to 10: what does the cube model show? 9XP
14. Subtraction sentences using number lines - up to 10 FCT
15. Subtraction word problems with pictures - up to 10 WKL
16. Subtraction sentences for word problems with pictures - up to 10 6B2

Subtract within 20

17. Subtract with pictures - up to 20 6PN
18. Subtraction sentences using number lines - up to 20 JA8

Multiply

19. Count equal groups XKL

20. Identify multiplication expressions for equal groups JUR
21. Write multiplication sentences for equal groups 8KC
22. Relate addition and multiplication for equal groups SQF
23. Identify multiplication expressions for arrays D8E
24. Write multiplication sentences for arrays GQP
25. Make arrays to model multiplication E88
26. Write multiplication sentences for number lines QBN

Divide

27. Divide by counting equal groups EUV
28. Write division sentences for equal groups ALF
29. Relate multiplication and division for equal groups RKX
30. Write division sentences for arrays BMP
31. Relate multiplication and division for arrays HDR

Know addition and subtraction facts to 20 and the majority of multiplication facts up to 10×10

Addition skill builders

1. Adding 1 9PE
2. Adding 2 ASA
3. Adding 3 6H2
4. Adding 4 YRJ
5. Adding 5 KGD
6. Adding 6 NR8
7. Adding 7 VSC
8. Adding 8 ALM
9. Adding 9 DZE
10. Adding 0 JZX

Add within 10

11. Addition facts - sums up to 10 F5M
12. Make a number using addition - sums up to 10 VEP
13. Ways to make a number - addition sentences XWD
14. Addition word problems - sums up to 10 NQE

15. Addition sentences for word problems - sums up to 10 CY9

Add within 20

16. Addition facts - sums up to 20 RZJ
17. Make a number using addition - sums up to 20 HXQ
18. Addition sentences: true or false? ENT
19. Addition word problems - sums up to 20 EQL
20. Addition sentences for word problems - sums up to 20 QK7

Addition strategies

21. Add in any order 6AR
22. Add by counting on - sums up to 10 SLH
23. Complete the addition sentence to make ten - with models YQN
24. Add by counting on - sums up to 20 9TJ
25. Add doubles with models VXY
26. Add doubles HQT
27. Add doubles - complete the sentence D5V
28. Add using doubles plus one BLT
29. Add using doubles minus one JBH
30. Add three numbers - use doubles LYM
31. Use ten frames to add ZDR
32. Make ten to add G9D
33. Add three numbers - make ten JGB
34. Add three numbers CKP
35. Add three numbers - word problems GRM

Subtraction skill builders

36. Subtracting 1 5TB
37. Subtracting 2 46B
38. Subtracting 3 9ZM
39. Subtracting 4 PZN
40. Subtracting 5 QZK
41. Subtracting 6 JXZ
42. Subtracting 7 PCU
43. Subtracting 8 VX8

44. Subtracting 9 KUH
45. Subtracting 0 27M

Subtract within 10

46. Subtract zero and all JBU
47. Subtract by counting on - up to 10 N8R
48. Subtraction facts - up to 10 MLA
49. Make a number using subtraction - up to 10 SNJ
50. Ways to make a number - subtraction sentences 7RL
51. Ways to subtract from a number - subtraction sentences YBE
52. Subtraction word problems - up to 10 VYM
53. Subtraction sentences for word problems - up to 10 64C

Subtract within 20

54. Subtract by counting on - up to 20 B92
55. Subtraction facts - up to 20 M5H
56. Make a number using subtraction - up to 20 ZXR
57. Subtraction sentences: true or false? 5GB
58. Subtraction word problems - up to 20 KSP
59. Subtraction sentences for word problems - up to 20 ATS

Subtraction strategies

60. Subtract by counting back - up to 10 HBX
61. Use addition to subtract - up to 10 FYU
62. Subtract by counting back - up to 20 REH
63. Use ten frames to subtract HQF
64. Use ten to subtract E8Q
65. Use addition to subtract - up to 20 YGM
66. Subtract doubles XMK

Multiply up to 100

67. Multiply by 2 MVP
68. Multiply by 3 9FC
69. Multiply by 4 ABU

70. Multiply by 5 ATW
71. Multiplication facts up to 5 2NE
72. Multiply by 10 LZR
73. Multiplication facts for 2, 5, 10 5JD
74. Multiplication facts for 2, 5, 10: true or false? XS7
75. Multiplication facts for 2, 5, 10: find the missing factor LUZ
76. Multiplication word problems GVP

Mixed operations

77. Addition and subtraction - ways to make a number 85N
78. Which sign makes the number sentence true? YNS
79. Addition and subtraction facts - up to 10 Y2L
80. Addition and subtraction facts - up to 20 WA2
81. Word problems with change unknown - up to 10 8PT
82. Word problems with start unknown - up to 10 7X6
83. Word problems with one addend unknown - up to 10 ZEB
84. Word problems involving addition and subtraction - up to 10 M97
85. Addition and subtraction word problems - up to 20 ALH

Develop strategies for adding and subtracting mentally up to the addition of two two-digit numbers within 100

Regroup tens and ones

1. Ways to make a number - tens and ones HVD
2. Regroup tens and ones - ways to make a number GTT
3. Regroup tens and ones 7L6

Add one-digit and two-digit numbers

4. Use models to add a multiple of ten and a one-digit number DHG
5. Use models to add a two-digit and a one-digit number - without regrouping EKK
6. Use models to add a two-digit and a one-digit number - with regrouping MS7

7. Use compensation to add a two-digit number and a one-digit number RW5
8. Add a multiple of ten and a one-digit number BZW
9. Add a two-digit and a one-digit number - without regrouping ARD
10. Add a two-digit and a one-digit number - with regrouping E7V

Add two two-digit numbers

11. Add two multiples of ten WBD
12. Use models to add a multiple of ten and a two-digit number 6Z7
13. Use models to add two-digit numbers - without regrouping AQL
14. Use models to add two-digit numbers - with regrouping TJY
15. Use place value to add two-digit numbers - without regrouping W58
16. Use place value to add two-digit numbers - with regrouping ERC
17. Add a multiple of ten and a two-digit number MJJ
18. Add two-digit numbers - without regrouping PJ9
19. Add two-digit numbers - with regrouping 2UB
20. Addition word problems - up to two digits B2Q

Subtract one-digit numbers from two-digit numbers

21. Use models to subtract a one-digit number from a two-digit number - without regrouping TYQ
22. Use models to subtract a one-digit number from a two-digit number - with regrouping 7R2
23. Subtract a one-digit number from a two-digit number - without regrouping Y7M
24. Subtract a one-digit number from a two-digit number - with regrouping BDE

Subtract two two-digit numbers

25. Subtract multiples of ten 9TD

26. Use models to subtract two-digit numbers - without regrouping TS8
27. Use models to subtract two-digit numbers - with regrouping VMW
28. Subtract a multiple of ten 3X9
29. Subtract two-digit numbers - without regrouping DLZ
30. Subtract two-digit numbers - with regrouping 5D2
31. Subtraction word problems - up to two digits Z8M

Mixed operations

32. Add and subtract multiples of ten T8N
33. Addition and subtraction - up to 100 HWG
34. Addition and subtraction word problems - up to 100 ALQ
35. Two-step addition and subtraction word problems - up to 100 RVX

Money

Recognise coins and use them in simple contexts	1. Coin values 9EM
Add and subtract money up to £10, use the conventional way of recording money, and use these skills to solve problems	1. Count 1p, 2p, 5p and 10p coins NBB 2. Count all coins 9B4 3. Count coins and notes - up to £20 note 88P 4. Money - word problems CP2
Talk about the value of money and ways in which it could be spent, saved and kept safe	1. Equivalent groups of coins 32R 2. Exchanging coins JJY 3. Least number of coins 94U 4. Compare money amounts 79Q
Talk about what money is and alternatives for paying, for example, *cheque book, debit card, credit card*	
Decide how to spend money	1. Purchases up to £1: do you have enough money? YPD 2. Purchases up to £10: do you have enough money? 6VH

3. Making change GSK

Measures

Standard	IXL skills
Understand and use the language associated with length, weight, capacity, area and time	**Length, weight and capacity** 1. Long and short 2FP 2. Tall and short X7D 3. Order objects: length and height NMA 4. Light and heavy XXV 5. Holds more or less A8U 6. Compare size, weight and capacity 6Z9 **Time** 7. Time words: o'clock, half, quarter CB6 8. A.M. or P.M. P2A
Use non-standard units to measure and recognise the need for standard units	1. Measure using objects 95K
Know and use the most commonly used units to measure in purposeful contexts	1. Measure using a centimetre ruler Q94 2. Metric units of length: word problems 8GU 3. Measure liquid volumes - metric units 2JL 4. Metric units of mass and volume: word problems NSH
Make estimates using arbitrary and standard units	1. Estimate lengths with centimetres and metres Y9P 2. Which metric unit of length is appropriate? 9FB 3. Which metric unit of mass is appropriate? BNF 4. Which metric unit of volume is appropriate? EXL
Choose and use simple measuring instruments, reading and interpreting them with reasonable accuracy	1. Read a thermometer QDN 2. Measure using a centimetre ruler Q94 3. Measure liquid volumes - metric units 2JL
Sequence everyday events; know the days of the week, months of the year and seasons; explore calendar patterns	1. Days of the week T94 2. Months of the year NJD 3. Seasons of the year V5V

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4. Read a calendar ZSA

Recognise times on the analogue clock and digital displays

Match clocks and times

1. Match digital clocks and times I VGS
2. Match digital clocks and times II JRQ
3. Match analogue clocks and times I J5L
4. Match analogue clocks and times II F6F
5. Match analogue and digital clocks I 9FM
6. Match analogue and digital clocks II TC7

Read clocks and write times

7. Read clocks and write times I KV8
8. Read clocks and write times II LNS
9. Time words: o'clock, half, quarter CB6

Understand the conservation of measures

Shape and Space

Exploration of Shape

Sort 2-D and 3-D shapes in different ways	1. Sort three-dimensional shapes PSN 2. Classify and sort by shape EXK 3. Classify, sort and count 5CF 4. Sort shapes into a Venn diagram 5R3
Make constructions, pictures and patterns using 2-D and 3-D shapes	1. Compose two-dimensional shapes ZX2
Name and describe 2-D and 3-D shapes; recognise reflective symmetry	**Name 2-D shapes** 1. Name the two-dimensional shape 6RX 2. Select two-dimensional shapes NVV 3. Two-dimensional shapes in the real world NKV **Describe 2-D shapes** 4. Count sides and vertices 5PZ 5. Compare sides and vertices BGA 6. Equal sides BCA 7. Open and closed shapes T8V **Name 3-D shapes** 8. Name the three-dimensional shape DGH 9. Select three-dimensional shapes XP9 10. Three-dimensional shapes in the real world I 8MK 11. Three-dimensional shapes in the real world II QQK **Describe 3-D shapes** 12. Count vertices, edges and faces HCB 13. Compare vertices, edges and faces 8R4 14. Identify shapes traced from solids 86F 15. Identify faces of three-dimensional shapes FPJ

	Identify 2-D and 3-D shapes 16. Two-dimensional and three-dimensional shapes 6HB **Symmetry** 17. Symmetry 6EA
Explore simple tessellation through practical activities	
Position, Movement and Direction	
Use prepositions to state position	1. In front of and behind GNP 2. Left, middle and right WJN 3. Top, middle and bottom CB8 4. Location in a grid BTJ 5. Above and below 2LD 6. Beside and next to 82A
Understand angle as a measure of turn; understand and give instructions for turning through right angles	1. Fractions of a turn HUL
Recognise right-angled corners in 2-D and 3-D shapes	
Know the four points of the compass	
Use programmable devices to explore movement and direction	

Handling Data

Collecting, Representing and Interpreting Data

Sort and classify objects for one or two criteria and represent results using Venn, Carroll and Tree diagrams	1. Count shapes in a Venn diagram T7D 2. Sort shapes into a Venn diagram 5R3
Collect data, record and present it using real objects, drawings, tables, mapping diagrams, simple graphs and ICT software	**Charts and tables** 1. Which tally chart is correct? CKM 2. Which table is correct? LYZ **Pictograms** 3. Create pictograms TKM 4. Create scaled pictograms XWR **Graphs** 5. Which bar graph is correct? 5KW 6. Create bar graphs XRD **Mixed data displays** 7. Show data in different ways 2FV
Discuss and interpret the data	**Charts and tables** 1. Interpret tally charts AWM 2. Interpret data in tables 2G8 **Pictograms** 3. Interpret pictograms JSP 4. Interpret scaled pictograms TXR **Graphs** 5. Interpret bar graphs 7FK
Extract information from a range of charts, diagrams and tables	
Enter and access information using a database	