IXL Skill Plan

Victorian Curriculum F-10 Version 2.0: Level 2

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Number

Standard	IXL skills
VC2M2N01: recognise, represent and order numbers to at least 1000 using physical and virtual materials, numerals and number lines	**Counting** 1. Hundred chart 2XV 2. Number lines - up to 1000 RD8 3. Count forward - up to 1000 M8V **Compare and order numbers** 4. Compare numbers up to 1000 using number lines 68F 5. Compare numbers up to 1000 ML8 6. Compare and order numbers up to 1000 using number lines 97A 7. Put numbers up to 1000 in order 7QP 8. Compare numbers up to 10 000 R2V 9. Put numbers up to 10 000 in order PZL **Place value models** 10. Place value models - tens and ones KXS 11. Place value models - up to hundreds 85U **Read and write numbers** 12. Spell word names for numbers up to 20 ZCM 13. Writing numbers up to 1000 in words - convert words to digits MPN 14. Writing numbers up to 1000 in words - convert digits to words Q6W 15. Writing numbers up to 1000 in words RUR 16. Roman numerals I, V, X, L TA9
VC2M2N02: partition, rearrange, regroup and rename two- and three-digit numbers using standard and non-standard groupings; recognise the role of a zero digit in place value notation	**Place value** 1. Identify a digit up to the hundreds place JL6 2. Value of a digit - tens and ones TCR 3. Value of a digit - up to hundreds 84F 4. Guess the number YFG

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VC2M2N03: recognise and describe one-half as one of 2 equal parts of a whole and connect halves, quarters and eighths through repeated halving

Regroup numbers

5. Regroup tens and ones - ways to make a number Z47
6. Regroup tens and ones GES
7. Regroup hundreds, tens and ones - ways to make a number SKN

Rename numbers

8. Convert to/from a number - tens and ones RNE
9. Convert to/from a number - up to hundreds EYA
10. Convert between place values - ones and hundreds ZKR
11. Convert between place values - ones, tens and hundreds BNZ
12. Convert from expanded form - up to hundreds DP7
13. Convert between standard and expanded form 8VH

Equal parts

1. Equal parts PQN

Halves

2. Identify halves S82
3. Make halves BPK

Quarters

4. Identify quarters 6TM
5. Make quarters 22E

Eighths

6. Identify eighths DU9
7. Make eighths 9XW

Halves, quarters and eighths

8. Identify halves, quarters and eighths G6U
9. Make halves, quarters and eighths 7UN
10. Make halves and quarters in different ways PTL

VC2M2N04: add and subtract one- and two-digit numbers, represent problems using number sentences and solve using part-part-whole reasoning and a variety of calculation strategies

One-digit addition

1. Add one-digit numbers - sums to 20 ESJ
2. Sort addition facts - sums to 20 X5H
3. Complete the addition sentence - sums to 20 EW9
4. Which addition sentence is true? - sums to 20 H65
5. Add three or more one-digit numbers MMK

One-digit subtraction

6. Subtract a one-digit number from a two-digit number up to 20 HR8
7. Complete the subtraction sentence - up to 20 XZB
8. Which subtraction sentence is true? - up to 20 QBE

Two-digit addition with models

9. Use models to add a multiple of 10 and a one-digit number WAV
10. Use models to add a multiple of 10 and a two-digit number BYJ
11. Use a hundred chart to add a multiple of 10 and a two-digit number NVS
12. Use a hundred chart to add a two-digit number and a one-digit number LU9
13. Use models to add a two-digit and a one-digit number - without regrouping RE7
14. Use models to add a two-digit and a one-digit number - with regrouping WFD
15. Use number lines to add two-digit numbers SKZ
16. Use models to add two-digit numbers - without regrouping 62P
17. Use models to add two-digit numbers - with regrouping DFZ

Two-digit addition

18. Partition a one-digit number to add FHJ
19. Partition a two-digit number to add - sums to 100 BQW
20. Use compensation to add on a number line - up to two digits 46Z

21. Use compensation to add - up to two digits KEQ
22. Use place value to add two-digit numbers - without regrouping QHG
23. Use place value to add two-digit numbers - with regrouping 7SU
24. Add a multiple of 10 and a one-digit number U2H
25. Add multiples of 10 UFE
26. Add a multiple of 10 and a two-digit number 9XC
27. Add a two-digit and a one-digit number - without regrouping T9L
28. Add a two-digit and a one-digit number - with regrouping N5U
29. Add two-digit numbers without regrouping - sums to 100 79Y
30. Add two-digit numbers with regrouping - sums to 100 P6E
31. Add two-digit numbers - sums to 100 KWS
32. Ways to make a number using addition - up to two digits UNC
33. Complete the addition sentence - up to two digits 3E6
34. Add two-digit numbers - sums to 200 6XS
35. Add three or more numbers up to two digits each NTP
36. Add four numbers up to two digits each E7K

Two-digit subtraction with models

37. Use models to subtract a one-digit number from a two-digit number - without regrouping BQ9
38. Use models to subtract a one-digit number from a two-digit number - with regrouping ZR2
39. Use number lines to subtract two-digit numbers 7CQ
40. Use models to subtract two-digit numbers - without regrouping JY2
41. Use models to subtract two-digit numbers - with regrouping Y7W

Two-digit subtraction

42. Partition a one-digit number to subtract MKV
43. Partition a two-digit number to subtract 82S
44. Use compensation to subtract on a number line - up to two digits KSM
45. Use compensation to subtract - up to two digits 6PJ
46. Count on to subtract two-digit numbers 3R7
47. Use place value to subtract two-digit numbers - without regrouping L2B
48. Use place value to subtract two-digit numbers - with regrouping VLQ
49. Subtract a multiple of 10 from a two-digit number JXZ
50. Subtract a one-digit number from a two-digit number - without regrouping SZ8
51. Subtract a one-digit number from a two-digit number - with regrouping XHZ
52. Subtract a one-digit number from a two-digit number XVQ
53. Subtract two-digit numbers - without regrouping 5DM
54. Subtract two-digit numbers - with regrouping 88R
55. Subtract two-digit numbers XRU
56. Ways to make a number using subtraction 5SR
57. Complete the subtraction sentence - up to two digits WJT

Mixed operations

58. Complete the addition or subtraction sentence - up to 20 ELN
59. Which addition or subtraction sentence is true? - up to 20 HKN
60. Add and subtract numbers - up to 100 VWA
61. Ways to make a number using addition and subtraction - up to 100 QJQ
62. Relate addition and subtraction sentences - up to two digits TSZ
63. Complete the addition or subtraction sentence - up to 100 B97

64. Which addition or subtraction equation is true? - up to 100 MZY
65. Write addition and subtraction sentences LSL
66. Inequalities with addition and subtraction - up to 100 5TL

VC2M2N05: multiply and divide by one-digit numbers using repeated addition, equal grouping, arrays and partitioning to support a variety of calculation strategies

Repeated addition

1. Identify repeated addition for equal groups - sums to 25 V5S
2. Write addition sentences for equal groups - sums to 25 9V4
3. Identify repeated addition for arrays - sums to 25 2NW
4. Write addition sentences for arrays - sums to 25 AEZ

Multiplication

5. Identify multiplication sentences for equal groups RV7
6. Write multiplication sentences for equal groups QDY
7. Identify multiplication expressions for arrays HDE
8. Write multiplication sentences for arrays V6D
9. Make arrays to model multiplication WQS

Division

10. Divide by counting equal groups VBT
11. Write division sentences for groups G8J
12. Write division sentences for arrays QL9
13. Make arrays to model division TVK

Relationships between operations

14. Relate addition and multiplication for equal groups 5XS
15. Relate addition and multiplication JM8
16. Relate multiplication and division for groups Z6H
17. Relate multiplication and division for arrays HSF
18. Relate multiplication and division WCZ

VC2M2N06: use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the context

One-digit addition

1. Addition word problems - sums to 20 SXL
2. Addition sentences for word problems - sums to 20 93Q
3. Add three or more one-digit numbers - word problems FMJ
4. Solve word problems using repeated addition - sums to 25 6D5

One-digit subtraction

5. Subtraction word problems - up to 20 96Q
6. Subtraction sentences for word problems - up to 20 PNK

Two-digit addition

7. Addition word problems - up to two digits 57P
8. Write the addition sentence - up to two digits 6C5
9. Addition word problems - three numbers up to two digits each MNV
10. Addition word problems - four numbers up to two digits each BM7

Two-digit subtraction

11. Subtraction word problems - up to two digits 7AG
12. Write the subtraction sentence - up to two digits RZF

Mixed operations

13. Addition and subtraction word problems - up to 20 ZMY
14. Addition and subtraction word problems - up to 100 74B
15. Two-step addition and subtraction word problems - up to 100 ZNZ

Algebra

Standard	IXL skills
VC2M2A01: recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern	**Shape patterns** 1. Repeating patterns 9XA 2. Growing patterns TPU 3. Find the next shape in a pattern UJB 4. Complete a repeating pattern XBP 5. Make a repeating pattern X78 6. Find the next row in a growing pattern WYQ **Additive patterns** 7. Addition input/output tables - sums to 20 8JV 8. Subtraction input/output tables - up to 20 XYU 9. Write the addition or subtraction rule for an input/output table - up to 20 WNP 10. Addition input/output tables - up to two digits JKQ 11. Subtraction input/output tables - up to two digits H8N 12. Write the addition or subtraction rule for an input/output table - up to 100 Z2Q
VC2M2A02: recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts	**Addition within 20** 1. Add doubles using models B94 2. Add doubles H5X 3. Add doubles - complete the sentence ZFH 4. Add near doubles 7RA 5. Addition sentences using number lines - sums to 20 7EU 6. Add by counting on - sums to 20 ZGS 7. Make ten to add GZW 8. Add one-digit numbers - sums to 20 ESJ 9. Complete the addition sentence - sums to 20 EW9 10. Which addition sentence is true? - sums to 20 H65

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11. Related addition facts TU2

Subtraction within 20

12. Subtract doubles 8L6
13. Subtraction sentences using number lines - up to 20 GNB
14. Subtract by counting back - up to 20 ZRA
15. Use ten to subtract 98W
16. Subtract by counting on - up to 20 STQ
17. Subtract zero or all A9Q
18. Subtract a one-digit number from a two-digit number up to 20 HR8
19. Complete the subtraction sentence - up to 20 XZB
20. Which subtraction sentence is true? - up to 20 QBE
21. Related subtraction facts VZN

Mixed operations

22. Addition and subtraction sentences using number lines - up to 20 76U
23. Addition and subtraction - up to 20 DY9
24. Ways to make a number using addition and subtraction - up to 20 DCD
25. Fact families ETV

VC2M2A03: recall and demonstrate proficiency with multiplication facts for twos; extend and apply facts to develop the related division facts using doubling and halving

1. Multiply by 2 8FA
2. Divide by 2 ZSN

VC2M2A04: apply repetition in arithmetic operations, including multiplication as repeated addition and division as repeated subtraction

1. Identify repeated addition for equal groups - sums to 25 V5S
2. Write addition sentences for equal groups - sums to 25 9V4
3. Identify repeated addition for arrays - sums to 25 2NW
4. Write addition sentences for arrays - sums to 25 AEZ
5. Solve word problems using repeated addition - sums to 25 6D5

6. Relate addition and multiplication for equal groups 5XS
7. Relate addition and multiplication JM8

Measurement

Standard	IXL skills
VC2M2M01: measure and compare objects based on length, capacity and mass using appropriate uniform informal units and smaller units for accuracy when necessary	**Compare size, weight and capacity** 1. Long and short 9BM 2. Tall and short 8NP 3. Light and heavy HDH 4. Holds more or less 8JD 5. Compare size, weight and capacity DBW **Measure using objects** 6. Measure using objects BG2
VC2M2M02: identify common uses and represent halves, quarters and eighths in relation to shapes, objects and events	1. Time words: o'clock, half, quarter CGT
VC2M2M03: identify the date and determine the number of days between events using calendars	1. Days of the week CQM 2. Read a calendar 29F
VC2M2M04: recognise and read the time represented on an analog clock to the hour, half-hour and quarter hour	1. Match analogue clocks and times JB2 2. Match analogue and digital clocks KPE 3. Read clocks and write times JSP 4. Time words: o'clock, half, quarter CGT
VC2M2M05: identify, describe and demonstrate quarter, half, three-quarter and full measures of turn in everyday situations	1. Fractions of a turn HM6

Space

Standard	IXL skills
VC2M2SP01: recognise, compare and classify shapes, referencing the number of sides and using spatial terms such as 'opposite', 'parallel', 'curved' and 'straight'	1. Count sides and vertices X9Z 2. Compare sides and vertices 2VJ 3. Equal sides KDZ 4. Parallel sides ND2 5. Curved parts HXP 6. Attributes of polygons 2KE 7. Attributes of quadrilaterals TD9 8. Name the two-dimensional shape ULP 9. Select two-dimensional shapes N82 10. Draw polygons VJM
VC2M2SP02: locate positions in two-dimensional representations of a familiar space; move positions by following directions and pathways	1. Location in a grid 7DG

Statistics

Standard	IXL skills
VC2M2ST01: acquire data for categorical variables through surveys, observation, experiment and using digital tools; sort data into relevant categories and display data using lists and tables	1. Which tally chart is correct? LNR 2. Which table is correct? 72X
VC2M2ST02: create different graphical representations of data using software where appropriate; compare the different representations, and identify and describe common and distinctive features in response to questions	**Tally charts** 1. Which tally chart is correct? LNR 2. Interpret tally charts UQS **Tables** 3. Which table is correct? 72X 4. Interpret data in tables EQN **Bar graphs** 5. Which bar graph is correct? VTS 6. Create bar graphs BP8 7. Interpret bar graphs DUK **Picture graphs** 8. Create picture graphs 76X 9. Interpret picture graphs ULE