



IXL Skill Plan

South Carolina College- and Career-Ready Standards:
Kindergarten



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

www.ixl.com/math/skill-plans/south-carolina-college-and-career-ready-standards-kindergarten

K.NS | Number Sense

Standard	IXL skills
K.NS.1: Count forward by ones and tens to 100.	<p>Count up to 3</p> <ol style="list-style-type: none">1. Learn to count to 3 VPL2. Count pictures - up to 3 XZY3. Count shapes - up to 3 KD64. Count cubes - up to 3 U9E <p>Count up to 5</p> <ol style="list-style-type: none">5. Learn to count to 5 94J6. Count pictures - up to 5 EAM7. Count cubes - up to 5 U9J <p>Count up to 10</p> <ol style="list-style-type: none">8. Learn to count to 10 SLE9. Count pictures - up to 10 WVJ10. Count cubes - up to 10 Q4711. Count dots - up to 10 WNL12. Count on ten frames - up to 10 QQQ13. Count blocks - up to 10 DB8 <p>Count up to 20</p> <ol style="list-style-type: none">14. Count pictures - up to 20 2JV15. Count dots - 0 to 20 7T416. Count on ten frames - up to 20 FTY17. Count blocks - up to 20 2W418. Count on a chart - up to 20 Q7G19. Understand tens and ones - up to 20 JLP <p>Count up to 30</p> <ol style="list-style-type: none">20. Count on ten frames - up to 30 RE221. Count blocks - up to 30 BD522. Understand tens and ones - up to 30 9NY <p>Count up to 100</p> <ol style="list-style-type: none">23. Count pictures - up to 100 9PV

24. Count blocks - up to 100 ZKS
25. Count on the hundred chart LGT
26. Count tens and ones - up to 99 Q2D

Count by tens

27. Learn to skip-count by tens 5RK
28. Skip-count by tens W6M
29. Count groups of ten 6J5
30. Count forward by tens XC7
31. Sequences - count by ones or tens 7HA

Count within 5

1. Count up to find the next number - up to 5 ULR
2. What number comes next? - up to 5 2TA

Count within 10

3. What number comes next? - up to 10 Z5F
4. Count up to find the next number - up to 10 BEC
5. Count forward - up to 10 MFP
6. Complete a sequence - up to 10 5A2

Count within 20

7. Count up to find the next number - up to 20 KYB
8. Count forward - up to 20 VXC
9. Complete an increasing sequence - up to 20 TGM

Count within 30

10. Count on a chart - up to 30 YLQ
11. Count forward - up to 30 WPL

Count within 100

12. Count forward on the hundred chart E6Y
13. Count up to find the next number - up to 100 LLZ
14. Count forward - up to 100 ZA6

K.NS.2: Count forward by ones beginning from any number less than 100.

K.NS.3: Read numbers from 0 - 20 and represent a number of objects 0 - 20 with a written numeral.

Numbers up to 3

1. Identify numbers - up to 3 FSH
2. Choose the number that you hear - up to 3 JBD
3. Count pictures - up to 3 XZY

4. Count on frames - up to 3 HV8

Numbers up to 5

5. Identify numbers - up to 5 GZJ
6. Choose the number that you hear - up to 5 QTK
7. Count pictures - up to 5 EAM
8. Count dots - 0 to 5 KNS
9. Count on frames - up to 5 QJR

Numbers up to 10

10. Identify numbers - up to 10 Z7T
11. Choose the number that you hear - up to 10 9C9
12. Names of numbers - up to 10 ZHM
13. Count pictures - up to 10 WVJ
14. Count dots - up to 10 WNL
15. Count on ten frames - up to 10 QQQ
16. Count blocks - up to 10 DB8

Numbers up to 20

17. Identify numbers - up to 20 YT5
18. Names of numbers - up to 20 YBS
19. Count dots - 0 to 20 7T4
20. Count on ten frames - up to 20 FTY

K.NS.4: Understand the relationship between number and quantity. Connect counting to cardinality by demonstrating an understanding that:

K.NS.4.a: the last number said tells the number of objects in the set (cardinality);

Numbers up to 3

1. Learn to count to 3 VPL
2. Count pictures - up to 3 XZY

Numbers up to 5

3. Learn to count to 5 94J
4. Count pictures - up to 5 EAM

Numbers up to 10

5. Learn to count to 10 SLE
6. Count pictures - up to 10 WVJ

Numbers up to 20

- Count pictures - up to 20 2JV

K.NS.4.b: the number of objects is the same regardless of their arrangement or the order in which they are counted (conservation of number);

Numbers up to 3

- Learn to count to 3 VPL
- Count pictures - up to 3 XZY

Numbers up to 5

- Learn to count to 5 94J
- Count pictures - up to 5 EAM
- Count shapes in rows - up to 5 XUZ
- Count scattered shapes - up to 5 HX8

Numbers up to 10

- Learn to count to 10 SLE
- Count pictures - up to 10 WVJ
- Count shapes in rows - up to 10 R69
- Count scattered shapes - up to 10 F7B
- Count shapes in rings - up to 10 79V

Numbers up to 20

- Count pictures - up to 20 2JV
- Count pictures in arrays and circles - up to 20 VDF

K.NS.4.c: each successive number name refers to a quantity that is one more and each previous number name refers to a quantity that is one less.

Numbers up to 5

- One more with pictures - up to 5 YAE
- One more on frames - up to 5 Z6Y
- One more - up to 5 6H3
- One less with pictures - up to 5 97D
- One less on frames - up to 5 MVT

Numbers up to 10

- One more with pictures - up to 10 7MC
- One more on frames - up to 10 EUM
- One more - up to 10 ZZR
- One less with pictures - up to 10 KUP
- One less on frames - up to 10 CYU
- One more and one less with pictures - up to 10 HC7

12. One more and one less on frames - up to 10 6QC

Count up to 3

1. Count on frames - up to 3 HV8
2. Count out stickers - up to 3 7A3
3. Show numbers with cubes - up to 3 8EL
4. Show numbers on frames - up to 3 HAZ
5. Represent numbers with pictures - up to 3 S66
6. Represent numbers with shapes - up to 3 BS9

Count up to 5

7. Count shapes in rows - up to 5 XUZ
8. Count on frames - up to 5 QJR
9. Count scattered shapes - up to 5 HX8
10. Count out stickers - up to 5 BRM
11. Show numbers with cubes - up to 5 XKB
12. Show numbers on frames - up to 5 WSY
13. Represent numbers with pictures - up to 5 85U
14. Represent numbers with pictures - 0 to 5 8KN
15. Represent numbers with shapes - up to 5 NA6

Count up to 10

16. Count shapes in rows - up to 10 R69
17. Count on ten frames - up to 10 QQQ
18. Count scattered shapes - up to 10 F7B
19. Count shapes in rings - up to 10 79V
20. Count out stickers - up to 10 VNE
21. Show numbers with cubes - up to 10 BPS
22. Show numbers on ten frames - up to 10 TGW
23. Represent numbers - up to 10 UJH

Count up to 20

24. Count out stickers - up to 15 HB7
25. Count pictures - up to 20 2JV
26. Count on ten frames - up to 20 FTY
27. Count pictures in arrays and circles - up to 20 VDF
28. Show numbers on ten frames - up to 20 HZM

K.NS.5: Count a given number of objects from 1 - 20 and connect this sequence in a one-to-one manner.

K.NS.6: Recognize a quantity of up to ten objects in an organized arrangement (subitizing).

Count up to 3

1. Represent numbers with pictures - up to 3 S66
2. Represent numbers with shapes - up to 3 BS9

Count up to 5

3. Represent numbers with pictures - up to 5 85U
4. Represent numbers with pictures - 0 to 5 8KN
5. Represent numbers with shapes - up to 5 NA6

Count up to 10

6. Represent numbers - up to 10 UJH

K.NS.7: Determine whether the number of up to ten objects in one group is more than, less than, or equal to the number of up to ten objects in another group using matching and counting strategies.

1. Count pictures and show a number that is greater, less, or equal - up to 5 DF8
2. Show a number greater than, less than, or equal to a given number up to 5 KBF
3. Fewer and more - compare by matching 7YV
4. Fewer, more, and same FLW
5. Are there enough? SL5
6. Fewer and more - compare by counting Y2E
7. Fewer and more - compare in a mixed group 7MY
8. Count pictures and show a number that is greater, less, or equal - up to 10 92D
9. Show a number greater than, less than, or equal to a given number up to 10 2T2

K.NS.8: Compare two written numerals up to 10 using more than, less than or equal to.

1. Compare two numbers - up to 10 Z62

K.NS.9: Identify first through fifth and last positions in a line of objects.

1. Ordinal numbers - up to fifth 2YC

K.NSBT | Number Sense and Base Ten

Standard	IXL skills
<p>K.NSBT.1: Compose and decompose numbers from 11 - 19 separating ten ones from the remaining ones using objects and drawings.</p>	<p>Teen numbers</p> <ol style="list-style-type: none">1. Make teen numbers with models: words 35W2. Make teen numbers: words 7X23. Take apart teen numbers with models: words EDT4. Take apart teen numbers: words G8R5. Make and take apart teen numbers with models: addition sentences RV8 <p>Numbers up to 20</p> <ol style="list-style-type: none">6. Count on ten frames - up to 20 FTY7. Understand tens and ones - up to 20 JLP8. Make and take apart teen numbers: tens and ones FVP

K.ATO | Algebraic Thinking and Operations

Standard	IXL skills
<p>K.ATO.1: Model situations that involve addition and subtraction within 10 using objects, fingers, mental images, drawings, acting out situations, verbal explanations, expressions, and equations.</p>	<p>Addition up to 5</p> <ol style="list-style-type: none"> 1. Put together numbers using cubes - sums up to 5 EBP 2. Build cube trains to add up to 5 - words 6KB 3. Addition sentences up to 5 - which model matches? 6RS 4. Addition sentences up to 5 - what does the model show? FNF 5. Write addition sentences for pictures - sums up to 5 ZWA 6. Add with cubes - sums up to 5 RHY 7. Build cube trains to add up to 5 - addition sentences NGW 8. Add with pictures - sums up to 5 LZV <p>Addition up to 10</p> <ol style="list-style-type: none"> 9. Put together numbers using cubes - sums up to 10 EFK 10. Build cube trains to add up to 10 - words JEP 11. Addition sentences up to 10 - which model matches? GBZ 12. Addition sentences up to 10 - what does the model show? WTT 13. Write addition sentences for pictures - sums up to 10 PMX 14. Turn words into an addition sentence - sums up to 10 P5F 15. Add with cubes - sums up to 10 VKN 16. Build cube trains to add up to 10 - addition sentences 8UU 17. Add with pictures - sums up to 10 KM7 <p>Subtraction up to 5</p> <ol style="list-style-type: none"> 18. Take away cubes - numbers up to 5 RZA 19. Subtraction sentences up to 5 - which model matches? B55

20. Subtraction sentences up to 5 - what does the model show? ZMB
21. Subtraction sentences up to 5 - what does the cube train show? T5W
22. Write subtraction sentences for pictures - up to 5 ZRE
23. Subtract with cubes - numbers up to 5 CSA
24. Subtract with pictures - numbers up to 5 FSM

Subtraction up to 10

25. Take away cubes - numbers up to 10 X5K
26. Subtraction sentences up to 10 - which model matches? UFH
27. Subtraction sentences up to 10 - what does the model show? A9U
28. Subtraction sentences up to 10 - what does the cube train show? FJS
29. Write subtraction sentences for pictures - up to 10 M89
30. Turn words into a subtraction sentence - numbers up to 10 9GF
31. Subtract with cubes - numbers up to 10 XZN
32. Subtract with pictures - numbers up to 10 5KG

Add within 5

1. Add with pictures - sums up to 5 LZY
2. Build cube trains to solve addition word problems - sums up to 5 M7C
3. Addition word problems with pictures - sums up to 5 W5C
4. Write addition sentences for word problems with pictures - sums up to 5 VQS
5. Addition word problems - sums up to 5 QDH
6. Model and write addition sentences for word problems - sums up to 5 K86

Add within 10

7. Add with pictures - sums up to 10 KM7
8. Build cube trains to solve addition word problems - sums up to 10 3B6
9. Addition word problems with pictures - sums up to 10 7VF

K.ATO.2: Solve real-world/story problems using objects and drawings to find sums up to 10 and differences within 10.

10. Write addition sentences for word problems with pictures - sums up to 10 PEB
11. Addition word problems - sums up to 10 KUH
12. Model and write addition sentences for word problems - sums up to 10 S2Y

Subtract within 5

13. Subtract with pictures - numbers up to 5 FSM
14. Subtraction word problems with pictures - numbers up to 5 LWF
15. Write subtraction sentences for word problems with pictures - up to 5 94K
16. Use cube trains to solve subtraction word problems - up to 5 MWC
17. Subtraction word problems - numbers up to 5 63S
18. Model and write subtraction sentences for word problems - up to 5 AK6

Subtract within 10

19. Subtract with pictures - numbers up to 10 5KG
20. Subtraction word problems with pictures - numbers up to 10 E6T
21. Write subtraction sentences for word problems with pictures - up to 10 63D
22. Use cube trains to solve subtraction word problems - up to 10 XAR
23. Subtraction word problems - numbers up to 10 QBY
24. Model and write subtraction sentences for word problems - up to 10 9VW

Mixed operations

25. Addition and subtraction word problems with pictures XXR
26. Addition and subtraction word problems X42

Addition up to 5

1. Put together numbers using cubes - sums up to 5 EBP
2. Build cube trains to add up to 5 - words 6KB
3. Add with cubes - sums up to 5 RHY

K.ATO.3: Compose and decompose numbers up to 10 using objects, drawings, and equations.

4. Build cube trains to add up to 5 - addition sentences NGW
5. Complete the addition sentence - sums up to 5 JRS
6. Take apart numbers using cubes - sums up to 5 RQZ
7. Make a number different ways using cubes - sums up to 5 SRB
8. Take apart numbers up to 5 - addition sentences 9E2
9. Take apart numbers in different ways - sums up to 5 G6F
10. Make a number using addition - sums up to 5 B2L

Subtraction up to 5

11. Take away cubes - numbers up to 5 RZA
12. Subtract with cubes - numbers up to 5 CSA
13. Make a number using subtraction - numbers up to 5 9VN
14. Complete the subtraction sentence - numbers up to 5 CEK

Addition up to 10

15. Put together numbers using cubes - sums up to 10 EFK
16. Build cube trains to add up to 10 - words JEP
17. Add with cubes - sums up to 10 VKN
18. Build cube trains to add up to 10 - addition sentences 8UU
19. Complete the addition sentence - sums up to 10 SAF
20. Take apart numbers using cubes - sums up to 10 Q8T
21. Make a number different ways using cubes - sums up to 10 65W
22. Take apart 10 using cubes URH
23. Decompose a number up to 10 BGU
24. Take apart numbers up to 10 - addition sentences C7R
25. Take apart 10 - addition sentences W97

26. Take apart numbers in different ways - sums up to 10 5EH

27. Make a number using addition - sums up to 10 QJS

Subtraction up to 10

28. Take away cubes - numbers up to 10 X5K

29. Subtract with cubes - numbers up to 10 XZN

30. Make a number using subtraction - numbers up to 10 WQ5

31. Complete the subtraction sentence - numbers up to 10 YL7

Mixed operations

32. Addition and subtraction - ways to make a number PXM

1. Count to fill a ten frame 2U3

2. Complete the addition sentence to make 10 - with models ZVB

3. Complete the addition sentence to make 10 CB8

K.ATO.4: Create a sum of 10 using objects and drawings when given one of two addends 1 - 9.

K.ATO.5: Add and subtract fluently within 5.

Addition

1. Add two numbers - sums up to 5 YAX

2. Complete the addition sentence - sums up to 5 JRS

3. Make a number using addition - sums up to 5 B2L

4. Make a number using addition - sums up to 10 QJS

Subtraction

5. Subtract - numbers up to 5 6R6

6. Complete the subtraction sentence - numbers up to 5 CEK

Mixed operations

7. Add or subtract - numbers up to 5 C6F

8. Related facts with models - numbers up to 5 REJ

K.ATO.6: Describe simple repeating patterns using AB, AAB, ABB, and ABC type patterns.

1. Color patterns W9T
 2. Size patterns EH2
 3. Shape patterns UBM
 4. Find the next shape in a pattern 8N9
 5. Complete a pattern VCR
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K.G | Geometry

Standard

K.G.1: Describe positions of objects by appropriately using terms, including below, above, beside, between, inside, outside, in front of, or behind.

K.G.2: Identify and describe a given shape and shapes of objects in everyday situations to include two-dimensional shapes (i.e., triangle, square, rectangle, hexagon, and circle) and three-dimensional shapes (i.e., cone, cube, cylinder, and sphere).

IXL skills

Relative positions

1. In front of and behind R9P
2. Inside and outside DHH
3. Above and below 9DZ
4. Beside and next to 5JY
5. Left, middle, and right QC5
6. Top, middle, and bottom 2XE
7. Location in a grid LD9

Shape names and positions

8. Three-dimensional shapes - above and below 5YQ
9. Three-dimensional shapes - beside and next to YYL

Two-dimensional shapes

1. Circles ASA
2. Triangles N6Y
3. Rectangles SLM
4. Squares 2WP
5. Hexagons ZQE
6. Select two-dimensional shapes QRY
7. Name the two-dimensional shape MCW
8. Sort circles 7QN
9. Sort two-dimensional shapes 2LQ
10. Compare shapes using attributes SXF
11. Two-dimensional shapes in the real world XE2

Three-dimensional shapes

12. Spheres WHV
13. Cubes FS7
14. Cones CFP
15. Cylinders HNK

16. Select three-dimensional shapes QAV
17. Name the three-dimensional shape 2FZ
18. Three-dimensional shapes in the real world I ZRS
19. Three-dimensional shapes in the real world II E2G

K.G.3: Classify shapes as two-dimensional/flat or three-dimensional/solid and explain the reasoning used.

K.G.4: Analyze and compare two- and three-dimensional shapes of different sizes and orientations using informal language.

K.G.5: Draw two-dimensional shapes (i.e., square, rectangle, triangle, hexagon, and circle) and create models of three-dimensional shapes (i.e., cone, cube, cylinder, and sphere).

1. Flat and solid shapes 4X6

Two-dimensional shapes

1. Select two-dimensional shapes QRY
2. Curved parts A6B
3. Count corners EKY
4. Square corners 6ZY
5. Count sides VUD
6. Equal sides T54
7. Count sides and corners UX9
8. Compare sides and corners UXY

Flat and solid shapes

9. Flat and solid shapes 4X6

Three-dimensional shapes

10. Select three-dimensional shapes QAV
11. Identify shapes traced from solids MQE

1. Compose simple two-dimensional shapes ZXE

K.MDA | Measurement and Data Analysis

Standard	IXL skills
<p>K.MDA.1: Identify measurable attributes (length, weight) of an object.</p>	<ol style="list-style-type: none"> 1. Long and short DGP 2. Tall and short 9KJ 3. Light and heavy WWN 4. Holds more or less 9KH 5. Covers more or less ZHB 6. Compare size, weight, and capacity KGC 7. Should you measure size, weight, or capacity? XJR
<p>K.MDA.2: Compare objects using words such as shorter/longer, shorter/taller, and lighter/heavier.</p>	<ol style="list-style-type: none"> 1. Long and short DGP 2. Tall and short 9KJ 3. Wide and narrow 5Q4 4. Light and heavy WWN 5. Holds more or less 9KH 6. Covers more or less ZHB 7. Compare size, weight, and capacity KGC
<p>K.MDA.3: Sort and classify data into 2 or 3 categories with data not to exceed 20 items in each category.</p>	<ol style="list-style-type: none"> 1. Classify shapes by color 8JL 2. Classify and sort by color VUU 3. Classify and sort by shape 9UK 4. Classify and sort RPB 5. Sort, count, and compare DMF
<p>K.MDA.4: Represent data using objects and picture graphs and draw conclusions from the graphs.</p>	<ol style="list-style-type: none"> 1. Which picture graph is correct? N2G 2. Make picture graphs 64V 3. Interpret picture graphs CHT