IXL Skill Plan for NWEA® MAP™ Growth

Math Grades 6+

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Operations and Algebraic Thinking

RIT Score: 220-221

Topic	IXL skills
Expressions and Equations	1. Write multiplication expressions using exponents TY5 2. Evaluate exponents XDA 3. Find the missing exponent or base HC5 4. Exponents with decimal bases D5D 5. Exponents with fractional bases GEQ 6. Evaluate numerical expressions involving whole numbers MLU 7. Evaluate numerical expressions involving decimals YEE 8. Evaluate numerical expressions involving fractions WNE

RIT Score: 222-223

Topic	IXL skills
Expressions and Equations	1. Write variable expressions: two operations CX9 2. Write variable expressions: word problems 6LQ 3. Evaluate variable expressions with whole numbers Q8Z 4. Evaluate multi-variable expressions HC9 5. Evaluate variable expressions with decimals, fractions, and mixed numbers 49T 6. Identify terms and coefficients 9KE 7. Sort factors of variable expressions QXS 8. Multiply using the distributive property 2HH 9. Factor using the distributive property PGZ 10. Write equivalent expressions using properties R8H 11. Identify equivalent expressions II HTG 12. Does x satisfy an equation? VMB 13. Which x satisfies an equation? VG8 14. Model and solve equations using algebra tiles G6Z

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15. Write and solve equations that represent diagrams FSQ
16. Solve one-step equations with whole numbers WLR
17. Solve one-step equations with decimals, fractions, and mixed numbers T53
18. Solve one-step equations: word problems BXY
19. Solutions to inequalities P9N
20. Graph inequalities on number lines CXX
21. Write inequalities from number lines N99

RIT Score: 224-225

Topic	IXL skills
Expressions and Equations	1. Evaluate linear expressions UG6 2. Evaluate multi-variable expressions T56 3. Evaluate nonlinear expressions ZHY 4. Multiply using the distributive property NUY 5. Write equivalent expressions using properties 6XR 6. Add and subtract linear expressions 6BT 7. Factors of linear expressions J9G 8. Identify equivalent linear expressions II KAR 9. Model and solve equations using algebra tiles EGK

RIT Score: 226-227

Topic	IXL skills
Expressions and Equations	1. Solve two-step equations QEB 2. Solve equations: word problems D2Y 3. Solve equations involving like terms VSW 4. Solve equations: complete the solution 66R 5. Solve one-step inequalities QWH 6. Graph solutions to one-step inequalities TFK 7. Solve two-step inequalities XGQ 8. Graph solutions to two-step inequalities 6TT 9. Solve word problems involving two-variable equations YJT

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Use Functions to Model Relationships	1. Find the slope from a graph YH9 2. Find the slope from two points VZG

RIT Score: 228-229

Topic	IXL skills
Expressions and Equations	1. Understanding negative exponents YBB 2. Model and solve equations using algebra tiles D45 3. Find the slope from two points ZAC 4. Graph a line from an equation in slope-intercept form W5E
Use Functions to Model Relationships	1. Find the slope of a graph D7M 2. Identify functions ELJ 3. Does (x, y) satisfy the linear function? 5BD

RIT Score: 230+

Topic	IXL skills
Expressions and Equations	1. Find the number of solutions XDE 2. Create equations with no solutions or infinitely many solutions 7TY 3. Find the slope of a linear equation U55 4. Graph a line using slope FSV 5. Write a linear equation from a graph WHM 6. Is (x, y) a solution to the system of equations? N46 7. Solve a system of equations by graphing WV5 8. Solve a system of equations by graphing: word problems W9J 9. Find the number of solutions to a system of equations by graphing AGZ 10. Find the number of solutions to a system of equations UYM 11. Solve a system of equations using substitution J8X 12. Solve a system of equations using substitution: word problems 9M8 13. Solve a system of equations using elimination ZQV

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14. Solve a system of equations using elimination: word problems Z97

Use Functions to Model Relationships

1. Write a linear equation from a slope and y-intercept WHP
2. Write a linear equation from a slope and a point VKP
3. Write a linear equation from two points 2R9
4. Evaluate a linear function LNV
5. Complete a table for a linear function D9B
6. Complete a table and graph a linear function DC2
7. Interpret the graph of a linear function: word problems 9E8
8. Write a linear function from a table UYY
9. Compare linear functions: tables, graphs, and equations N7D
10. Write linear functions: word problems YK6
11. Identify linear and nonlinear functions: graphs and equations XB8
12. Find values using function graphs 7N2
13. Complete a table for a function graph 7EK

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The Real and Complex Number Systems

RIT Score: 220-221

Topic	IXL skills
Ratios and Proportional Relationships	1. Write a ratio 83K 2. Write a ratio: word problems SBQ 3. Identify equivalent ratios 2LM 4. Write an equivalent ratio NEA 5. Ratio tables PPF 6. Equivalent ratios: word problems RLZ 7. Unit rates JSZ 8. Unit rates: word problems ZB9 9. Convert and compare customary units 9TJ 10. Convert, compare, add, and subtract mixed customary units 97L 11. Multiply and divide mixed customary units GVX 12. Customary unit conversions involving fractions and mixed numbers UHE 13. Convert and compare metric units FDH 14. Convert between customary and metric systems 5CF
Perform Operations	1. Divisibility rules WCD 2. Division patterns with zeroes CEZ 3. Divide numbers ending in zeroes: word problems 95H 4. Divide whole numbers - 2-digit divisors FL2 5. Divide whole numbers - 3-digit divisors STW 6. Identify factors BGJ 7. Greatest common factor AMB 8. Least common multiple NGA 9. GCF and LCM: word problems ZB8 10. Add and subtract decimal numbers 79J 11. Add and subtract decimals: word problems 97T 12. Maps with decimal distances J7D

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Extend and Use Properties	1. Decimal number lines AXN 2. Understanding integers 8EP 3. Integers on number lines K6J 4. Graph integers on horizontal and vertical number lines 36C 5. Compare integers 4G6 6. Compare temperatures above and below zero UVD 7. Objects on a coordinate plane GFN 8. Graph points on a coordinate plane VHQ 9. Coordinate planes as maps N96 10. Follow directions on a coordinate plane XDQ

RIT Score: 222-223

Topic	IXL skills
Ratios and Proportional Relationships	1. What percentage is illustrated? RHG 2. Percents of numbers and money amounts 8N4 3. Percents of numbers: word problems BBY 4. Find the total given a part and a percent D6L 5. Which is the better coupon? WLZ 6. Unit prices UKD 7. Unit prices with fractions and decimals 9NF 8. Unit prices with customary unit conversions RW2 9. Sale prices 5GH
Perform Operations	1. Multiply decimals 2WT 2. Divide decimals by whole numbers NLL 3. Divide decimals by whole numbers: word problems TWZ 4. Multiply and divide decimals by powers of ten KNH 5. Division with decimal quotients BFR 6. Reciprocals 5BT 7. Divide fractions by whole numbers in recipes ENK 8. Divide fractions DS2 9. Divide fractions and mixed numbers N2B 10. Divide fractions and mixed numbers: word problems WAH

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	11. Add, subtract, multiply, or divide two decimals P6W 12. Add, subtract, multiply, or divide two decimals: word problems 8HT
Extend and Use Properties	1. Absolute value and opposite integers 2YZ 2. Compare rational numbers KS2 3. Put rational numbers in order 5AX 4. Absolute value of rational numbers KGX 5. Rational numbers: find the sign V2E 6. Graph points on a coordinate plane VHQ 7. Quadrants F5T 8. Distance between two points A7P

RIT Score: 224-225

Topic	IXL skills
Ratios and Proportional Relationships	1. Identify equivalent ratios ZFM 2. Equivalent ratios: word problems DJ8 3. Do the ratios form a proportion? MJQ 4. Do the ratios form a proportion: word problems SHV 5. Solve proportions: word problems WB7 6. Find the constant of proportionality from a table LKZ 7. Write equations for proportional relationships from tables 6GU 8. Identify proportional relationships by graphing AAN 9. Find the constant of proportionality from a graph ZUT 10. Write equations for proportional relationships from graphs JKH 11. Identify proportional relationships from graphs and equations NB5 12. Interpret graphs of proportional relationships RMH 13. Write and solve equations for proportional relationships VKK

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Perform Operations

1. Add and subtract integers using counters B8X
2. Add and subtract integers FNS
3. Multiply and divide integers R8D
4. Evaluate numerical expressions involving integers 7YN
5. Add and subtract decimals: word problems RKZ
6. Multiply decimals and whole numbers: word problems VZN
7. Divide decimals by whole numbers: word problems TUU
8. Add, subtract, multiply, and divide decimals: word problems TGN
9. Maps with decimal distances WT7
10. Evaluate numerical expressions involving decimals FNM
11. Add and subtract fractions: word problems ENL
12. Add and subtract mixed numbers: word problems 6YT
13. Multiply fractions and whole numbers ZNQ
14. Multiply fractions PDK
15. Multiply mixed numbers JNY
16. Multiply fractions and mixed numbers: word problems 5NJ
17. Divide fractions X7A
18. Divide mixed numbers UPF
19. Divide fractions and mixed numbers: word problems 5VR
20. Add, subtract, multiply, and divide fractions and mixed numbers: word problems KR7
21. Maps with fractional distances KXP
22. Evaluate numerical expressions involving fractions XXQ
23. Evaluate numerical expressions involving exponents D7P
24. Add, subtract, multiply, and divide money amounts: word problems HGN
25. Multi-step word problems JVU

Extend and Use Properties

1. Classify numbers WVQ
2. Integer multiplication and division rules 5R8

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RIT Score: 226-227

Topic	IXL skills
Ratios and Proportional Relationships	1. Estimate population size using proportions 3C9 2. Percents of numbers and money amounts 93K 3. Percents of numbers: word problems EXE 4. Solve percent equations 67F 5. Solve percent equations: word problems JS6 6. Percent of change BL7 7. Percent of change: word problems 54S 8. Unit prices N7G 9. Unit prices with unit conversions KJ8 10. Unit prices: find the total price ENH 11. Percent of a number: tax, discount, and more SPN 12. Find the percent: tax, discount, and more PBM 13. Sale prices: find the original price BDA 14. Multi-step problems with percents ZHX 15. Simple interest E7Y
Perform Operations	1. Complete addition and subtraction equations with integers P6A 2. Complete multiplication and division equations with integers K94 3. Add and subtract rational numbers GKU 4. Multiply and divide rational numbers BXW
Extend and Use Properties	1. Apply multiplication and division rules V5V

RIT Score: 228-229

Topic	IXL skills
Ratios and Proportional Relationships	1. Find the constant of proportionality from a table ZCK 2. Write equations for proportional relationships from tables S69 3. Find the constant of proportionality from a graph YMH 4. Write equations for proportional relationships from graphs G7N

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	5. Graph proportional relationships MQD 6. Interpret graphs of proportional relationships Q96 7. Constant rate of change ZPF
Perform Operations	1. Exponents with negative bases ZQC 2. Understanding negative exponents YBB 3. Evaluate negative exponents WGS 4. Convert between standard and scientific notation H8A 5. Compare numbers written in scientific notation RHT 6. Multiply numbers written in scientific notation YZU 7. Divide numbers written in scientific notation SGT 8. Model and solve equations using algebra tiles D45
Extend and Use Properties	1. Identify rational and irrational numbers NV6

RIT Score: 230+

Topic	IXL skills
Perform Operations	1. Evaluate expressions using properties of exponents UTY 2. Identify equivalent expressions involving exponents I VLM 3. Square roots of perfect squares 9RS 4. Positive and negative square roots 8TF 5. Estimate positive and negative square roots 96T 6. Relationship between squares and square roots 8W2 7. Cube roots of perfect cubes RYG 8. Estimate cube roots RLC
Extend and Use Properties	1. Evaluate expressions using properties of exponents UTY 2. Identify equivalent expressions involving exponents I VLM

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Geometry

RIT Score: 220-221

Topic	IXL skills
Geometric Measurement and Relationships	1. Area of triangles C8S 2. Area of parallelograms and trapezoids PKW 3. Area of quadrilaterals 27F 4. Area of compound figures 76U
Congruence, Similarity, Right Triangles, & Trig	1. Measure and classify angles HTH 2. Classify triangles XM6

RIT Score: 222-223

Topic	IXL skills
Geometric Measurement and Relationships	1. Graph triangles and quadrilaterals E55 2. Volume of cubes and rectangular prisms XHF 3. Surface area of cubes and rectangular prisms RMG
Congruence, Similarity, Right Triangles, & Trig	1. Name angles BLY

RIT Score: 224-225

Topic	IXL skills
Geometric Measurement and Relationships	1. Graph triangles and quadrilaterals MEZ 2. Identify complementary, supplementary, vertical, adjacent, and congruent angles HKG 3. Find measures of complementary, supplementary, vertical, and adjacent angles CST 4. Parts of a circle 2VL 5. Area of rectangles and parallelograms 62H 6. Area of triangles and trapezoids ENE

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RIT Score: 226-227

Topic	IXL skills
Geometric Measurement and Relationships	1. Scale drawings: word problems 84H 2. Bases of three-dimensional figures RF6 3. Cross-sections of three-dimensional figures HFJ 4. Circles: calculate area, circumference, radius, and diameter YA8 5. Circles: word problems P56 6. Volume of cubes and prisms URT 7. Surface area of cubes and prisms RFP 8. Area of compound figures with triangles, semicircles, and quarter circles N97 9. Area between two shapes RKC

RIT Score: 228-229

Topic	IXL skills
Geometric Measurement and Relationships	1. Volume of cylinders 9F3
Congruence, Similarity, Right Triangles, & Trig	1. Find the distance between two points ZBP 2. Find missing angles in triangles JFJ 3. Exterior Angle Theorem FMP 4. Transversals of parallel lines: find angle measures V99

RIT Score: 230+

Topic	IXL skills
Geometric Measurement and Relationships	1. Volume of cones YYR 2. Volume of spheres QX7
Congruence, Similarity, Right Triangles, & Trig	1. Identify reflections, rotations, and translations UYL 2. Translations: graph the image XUS 3. Translations: find the coordinates RUP 4. Reflections: graph the image NBM 5. Reflections: find the coordinates KUX 6. Rotations: graph the image AC9

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7. Rotations: find the coordinates HHS
8. Congruence statements and corresponding parts LPP
9. Side lengths and angle measures of congruent figures DSQ
10. Similar and congruent figures U85
11. Dilations: graph the image 9T4
12. Dilations: find the coordinates UV9
13. Pythagorean theorem: find the length of the hypotenuse 7ZL
14. Pythagorean theorem: find the missing leg length Y9C
15. Pythagorean theorem: find the perimeter VGE
16. Pythagorean theorem: word problems 87U
17. Converse of the Pythagorean theorem: is it a right triangle? EQZ

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Statistics and Probability

RIT Score: 220-221

Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Create line plots 5HD 2. Calculate mean, median, mode, and range ZZK 3. Interpret charts and graphs to find mean, median, mode, and range 2WK

RIT Score: 222-223

Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Interpret stem-and-leaf plots 2E8 2. Interpret box-and-whisker plots E9F 3. Mean, median, mode, and range: find the missing number 77K 4. Calculate mean absolute deviation JUV

RIT Score: 224-225

Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Calculate mean, median, mode, and range U2A 2. Interpret charts and graphs to find mean, median, mode, and range CYK
Using Sampling and Probability to Make Decisions	1. Probability of simple events ZZB 2. Probability of simple events and opposite events F88 3. Experimental probability 9AA

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Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Mean, median, mode, and range: find the missing number ZWS 2. Changes in mean, median, mode, and range 9UP

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Using Sampling and Probability to Make Decisions	1. Estimate population size using proportions 3C9 2. Identify representative, random, and biased samples 5V3 3. Probability of simple events and opposite events F88 4. Make predictions using theoretical probability 9UW 5. Compound events: find the number of outcomes HZR 6. Identify independent and dependent events 9M6 7. Probability of independent and dependent events NED 8. Counting principle EKX

RIT Score: 228-229

Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Identify trends with scatter plots GZE
Using Sampling and Probability to Make Decisions	1. Compound events: find the number of outcomes P5R 2. Identify independent and dependent events SRF 3. Probability of independent and dependent events SAS

RIT Score: 230+

Topic	IXL skills
Interpreting Categorical and Quantitative Data	1. Outliers in scatter plots RP8 2. Scatter plots: line of best fit ZQ6
Using Sampling and Probability to Make Decisions	1. Identify an outlier and describe the effect of removing it QZS

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