MAP to Khan Academy:

Khan Academy Practice Exercises Correlated to RIT
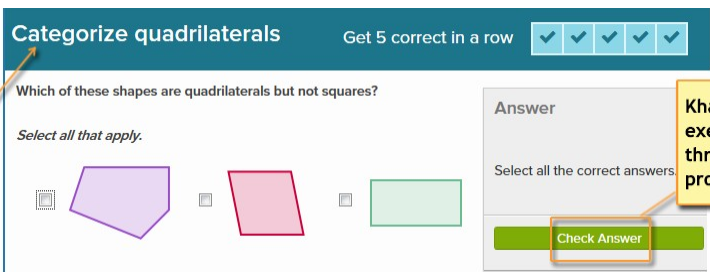## for Common Core Math MAP Grades 6+

About this Document

This document correlates MAP® sub-goals and RIT ranges to Khan Academy® exercises. The Khan exercises are interactive problems for students with instant feedback:

Having these exercises correlated to RIT ranges means you can use them in conjunction with your flexible student groupings that are also informed by RIT score results. The exercises are also useful for targeting learning in each student's zone of proximal development (Vygotsky).

The correlation between MAP RIT scores and the Khan Academy exercises was determined by using our 2011 norms data to approximate grade levels, which were then matched to the corresponding Common Core State Standards (CCSS). Teachers in states that have not adopted the CCSS may still find these resources valuable by relating goals or sub-goals that are similar to CCSS goals and sub-goals.

NWEA plans to work with Khan Academy to update these links twice a year as new exercises are developed.

How to Use

1. Use MAP reports to find the RIT scores for a given sub-goal.
2. In this document, locate that same goal, approximate RIT range, and sub-goals.
3. To choose appropriate Khan Academy exercises:
    a. Consider both the name of the exercise and the CCSS standard.
    b. Click the link and try the exercise yourself.
       Note: When you're in Khan Academy, the links to videos and other resources add context to the actual exercise but are not necessarily correlated to MAP.
4. In the browser window where the exercise opened, note or copy the Web address URL.
5. Optionally deliver exercises to students. For example:

    • Paste the URL into an online document for students to access.

    • Present the exercise in the classroom.

    • Use for parent-teacher conference discussion.

Limitations

The instructional suggestions presented in this document are intended to provide supplementary resources based on available Khan Academy exercises and are not intended to replace other options. MAP/MPG data should be used as one of many data points for instructional decisions rather than as a placement guide.

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Geometry

Operations and Algebraic Thinking

Statistics and Probability

The Real and Complex Number Systems

Geometry

Congruence, Similarity, Right Triangles, & Trig   Standards Alignment

RIT Range: 204 - 212

Angle types	4.G.A.1
Axis of symmetry	4.G.A.3
Quadrilateral types	4.G.A.2
Recognizing angles	4.G.A.1

RIT Range: 221 - 225

Nets of 3D figures	6.G.A.4

RIT Range: 226 - 230

Constructing scale drawings	7.G.A.1
Slicing 3D figures	7.G.A.3
Vertical angles	7.G.B.5

RIT Range: 231 - 234

Angles 1	8.G.A.5
Angles 2	8.G.A.5
Congruent angles	8.G.A.5
Distance formula	8.G.B.8
Exploring angle-preserving transformations and similarity	8.G.A.4
Exploring rigid transformations and congruence	8.G.A.2
Parallel lines 1	8.G.A.5
Parallel lines 2	8.G.A.5
Performing transformations on the coordinate plane	8.G.A.3
Properties of rigid transformations	8.G.A.1
Pythagorean theorem	8.G.B.7
Special right triangles	8.G.B.7
Pythagorean Theorem proofs	8.G.B.6

RIT Range: > 235

Applying right triangles	HSG-SRT.C.7	HSG-SRT.C.8

Geometry

Congruence, Similarity, Right Triangles, & Trig

Standards Alignment

RIT Range: > 235

Congruency postulates	HSG-CO.B.7 | HSG-CO.B.8
Congruent triangles 1	HSG-CO.B.6
Congruent triangles 2	HSG-CO.B.6
Compass constructions 1	HSG-CO.D.12
Compass constructions 2	HSG-CO.D.13
Defining congruence through rigid transformations	HSG-CO.B.6 | HSG-CO.B.7
Defining similarity through angle-preserving transformations	HSG-SRT.A.2 | HSG-SRT.A.3
Dilations	HSG-SRT.A.1
Qualitatively defining rigid transformations	HSG-CO.A.2
Quantitatively defining rigid transformations	HSG-CO.A.2
Similar triangles 1	HSG-SRT.A.3
Similar triangles 2	HSG-SRT.A.3
Solving similar triangles 1	HSG-SRT.A.3
Solving similar triangles 2	HSG-SRT.B.5
Solving problems with similar and congruent triangles	HSG-SRT.B.5
Symmetry of two-dimensional shapes	HSG-CO.A.3
Transforming polygons	HSG-CO.A.5
Trigonometric functions and side ratios in right triangles	HSG-SRT.C.6 | HSG-SRT.C.7

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: < 160

Compare shapes	K.G.B.4
Naming shapes	K.G.A.1 | K.G.A.2

RIT Range: 161 - 178

Attributes of shapes	1.G.A.1
Measuring lengths 1	1.MD.A.2

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 179 - 191

Comparing lengths	2.MD.A.4
Measuring lengths 2	2.MD.A.1
Measuring lengths with different units	2.MD.A.2
Recognizing shapes	2.G.A.1

RIT Range: 192 - 203

Area 1	3.MD.C.5 | 3.MD.C.5b | 3.MD.C.6
Area and the distributive property	3.MD.C.7
Categorize quadrilaterals	3.G.A.1
Comparing area and perimeter	3.MD.D.8
Comparing areas by multiplying	3.MD.C.7 | 3.MD.C.7b
Creating line plots 2	3.MD.B.4
Decompose shapes to find area	3.MD.C.7
Finding area by multiplying	3.MD.C.7
Mass word problems	3.MD.A.2
Measuring area with unit squares	3.MD.C.5 | 3.MD.C.5b | 3.MD.C.6
Perimeter 1	3.MD.D.8
Finding perimeter	3.MD.D.8
Volume word problems 1	3.MD.A.2

RIT Range: 204 - 212

Angle types	4.G.A.1
Area problems	4.MD.A.3
Area and perimeter of rectangles word problems	4.MD.A.3
Benchmark angles	4.MD.C.5
Classifying shapes by line and angle types	4.G.A.2
Decomposing angles	4.MD.C.7
Drawing angles	4.MD.C.6
Drawing lines	4.G.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 204 - 212

Drawing right, acute, and obtuse angles	4.G.A.1
Measurement units	4.MD.A.1
Measurement word problems with metric units	4.MD.A.2
Measurement word problems with US customary units	4.MD.A.2
Measuring angles	4.MD.C.6
Measuring and converting money word problems	4.MD.A.2
Measuring time word problems	4.MD.A.2
Naming angles	4.MD.C.5
Recognizing rays, lines, and line segments	4.G.A.1
Recognizing parallel and perpendicular lines	4.G.A.1
Recognizing triangles	4.G.A.2
Triangle types	4.G.A.2
Understanding angles	4.MD.C.5
Unit sense	4.MD.A.1

RIT Range: 213 - 220

Converting measurements word problems	5.MD.A.1
Converting units	5.MD.A.1
Coordinate plane word problems in the first quadrant	5.G.A.2
Graphing points	5.G.A.1 | 5.G.A.2
Volume 1	5.MD.C.5 | 5.MD.C.5b | 5.MD.C.5c
Volume word problems	5.MD.C.5 | 5.MD.C.5b | 5.MD.C.5c
Volume with unit cubes 1	5.MD.C.4

RIT Range: 221 - 225

Area of parallelograms	6.G.A.1
Area of triangles	6.G.A.1
Area of quadrilaterals and polygons	6.G.A.1
Area of trapezoids, rhombi, and kites	6.G.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 221 - 225

Finding area by composing and decomposing shapes	6.G.A.1
Nets of 3D figures	6.G.A.4
Polygons in the coordinate plane	6.G.A.3
Surface area	6.G.A.4
Volume with fractions	6.G.A.2
Volume with unit cubes 2	6.G.A.2
Volume word problems with fractions	6.G.A.2

RIT Range: 226 - 230

Area of a circle	7.G.B.4
Area and circumference of circles	7.G.B.4
Area, volume, and surface area	7.G.B.6
Complementary and supplementary angles	7.G.B.5
Congruent segments	7.NS.A.1c
Constructing scale drawings	7.G.A.1
Constructing triangles	7.G.A.2
Interpreting scale drawings	7.G.A.1 | 7.G.A.1
Measuring segments	7.NS.A.1b
Quadrilateral angles	7.G.B.5
Radius, diameter, and circumference	7.G.B.4
Slicing 3D figures	7.G.A.3
Solid geometry	7.G.B.6
Solving for unknown angles	7.G.B.5
Vertical angles	7.G.B.5

RIT Range: 231 - 234

Parallel lines 1	8.G.A.5
Parallel lines 2	8.G.A.5
Volume word problems with cones, cylinders, and spheres	8.G.C.9 | HSG-GMD.A.3

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: > 235

2D geometric models	HSG-MG.A.1 | HSG-MG.A.3
Areas of circles and sectors	HSG-C.B.5
Radians and arc length	HSG-C.B.5
Central, inscribed, and circumscribed angles	HSG-C.A.2 | HSG-C.A.3
Circles and arcs	HSG-C.B.5
Constructing a line tangent to a circle	HSG-C.A.4
Coordinate plane word problems with polygons	HSG-GPE.B.7
Cross sections of 3D objects	HSG-GMD.B.4
Dividing line segments	HSG-GPE.B.6
Equation of a circle in factored form	HSG-GPE.A.1
Equation of a circle in non-factored form	HSG-GPE.A.1
Geometry problems on the coordinate plane	HSG-GPE.B.4
Inscribing and circumscribing circles on a triangle	HSG-C.A.3
Equations of parallel and perpendicular lines	HSG-GPE.B.5
Midpoint formula	HSG-GPE.B.6
Parabola intuition 1	HSG-GPE.A.2
Parabola intuition 2	HSG-GPE.A.2
Parabola intuition 3	HSG-GPE.A.2
Pythagorean theorem and the equation of a circle	HSG-GPE.A.1
Surface and volume density word problems	HSG-MG.A.2
Volume word problems with cones, cylinders, and spheres	8.G.C.9 | HSG-GMD.A.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: < 160

Put together	K.OA.A.1
Take apart	K.OA.A.1

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 161 - 178

Adding three numbers	1.OA.A.2
Addition within 20	1.OA.C.6
Addition and subtraction within 10	1.OA.D.8
Addition and subtraction word problems within 20: Level 1	1.OA.A.1
Addition and subtraction word problems within 20: Level 2	1.OA.A.1
Addition and subtraction word problems within 20: Level 3	1.OA.A.1
Addition and subtraction word problems within 20: Level 4	1.OA.A.1
Add within 100: Level 1	1.NBT.C.4
Add within 100: Level 2	1.NBT.C.4
Meaning of equal sign 1	1.OA.D.7

RIT Range: 179 - 191

Addition and subtraction word problems within 100: Level 1	2.OA.A.1
Addition and subtraction word problems within 100: Level 2	2.OA.A.1
Addition and subtraction word problems within 100: Level 3	2.OA.A.1
Addition and subtraction word problems within 100: Level 4	2.OA.A.1
Add within 1000: Level 1	2.NBT.B.7
Add within 1000: Level 2	2.NBT.B.7
Comparing lengths	2.OA.A.1
Counting money (U.S.)	2.MD.C.8
Length word problems	2.OA.A.1
Solving problems with picture graphs 1	2.OA.A.1
Subtraction within 20	2.NBT.B.5
Subtract within 1000: Level 1	2.NBT.B.7
Subtract within 1000: Level 2	2.NBT.B.7
Writing numbers to 1000	2.NBT.A.3

RIT Range: 192 - 203

Addition within 100	3.NBT.A.2

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 192 - 203

Addition within 1000	3.NBT.A.2
Basic division	3.OA.A.4
1- digit division	3.OA.A.4
Multiplying 1-digit numbers	3.OA.A.4
Properties of multiplication 1	3.OA.B.5
Properties of multiplication 2	3.OA.B.5
Solving basic multiplication and division equations	3.OA.A.4 | 3.OA.A.4
Subtraction within 100	3.NBT.A.2
Subtraction within 1000	3.NBT.A.2
Telling time word problems	3.MD.A.1
Two-step word problems with addition, subtraction, multiplication, and division	3.OA.D.8

RIT Range: 204 - 212

Multiplication and division word problems	4.OA.A.2
Comparing with multiplication	4.OA.A.1
Measurement word problems with metric units	4.MD.A.2
Measurement word problems with US customary units	4.MD.A.2
Measuring and converting money word problems	4.MD.A.2
Measuring time word problems	4.MD.A.2
Multiplication without carrying	4.NBT.B.5
Multiplication with carrying	4.NBT.B.5
Multiplying 2 digits by 2 digits	4.NBT.B.5
Multiplying 2 digits by 2 digits with area models	4.NBT.B.5
Multiplying 4 digits by 1 digit with visual models	4.NBT.B.5
Multiplying fractions and whole numbers word problems	4.NF.B.4c
Multi-step word problems with whole numbers	4.OA.A.3 | 4.OA.A.3

RIT Range: 213 - 220

Adding decimals 1	5.NBT.B.7

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 213 - 220

Adding decimals 0.5	5.NBT.B.7
Adding fractions with unlike denominators	5.NF.A.1
Adding and subtracting mixed numbers 1	5.NF.A.1
Converting measurements word problems	5.MD.A.1
Converting units	5.MD.A.1
Dividing completely	5.NBT.B.7
Dividing decimals 1	5.NBT.B.7
Dividing decimals 2	5.NBT.B.7
Dividing decimals 3	5.NBT.B.7
Division by 2 digits	5.NBT.B.6
Expressions with parentheses	5.OA.A.1 | 5.OA.A.2
Multiplying decimals 1	5.NBT.B.7
Multiplying decimals 2	5.NBT.B.7
Multiplying fractions by fractions word problems	5.NF.B.6
Patterns in zeros	5.NBT.A.2
Subtracting decimals	5.NBT.B.7
Subtracting decimals 0.5	5.NBT.B.7
Subtracting fractions with unlike denominators	5.NF.A.1
Understanding moving the decimal	5.NBT.A.2
Understanding fractions as division	5.NF.B.3
Understanding multiplying fractions by fractions	5.NF.B.4a

RIT Range: 221 - 225

Combining like terms	6.EE.A.3
Dependent and independent variables	6.EE.C.9
Constructing and solving equations in the real world 1	6.EE.B.6 | 6.EE.B.7
Equivalent forms of expressions 1	6.EE.A.3 | 6.EE.A.4
Evaluating expressions in one variable	6.EE.A.2c
Evaluating expressions in 2 variables	6.EE.A.2c

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 221 - 225

Evaluating expressions with variables word problems	6.EE.A.2 | 6.EE.A.2c
Evaluating numerical expressions with exponents	6.EE.A.1
Evaluating numerical expressions with exponents word problems	6.EE.A.1
Identifying parts of expressions	6.EE.A.2b
Inequalities on a number line	6.EE.B.8
Inequalities in one variable 1	6.EE.B.6 | 6.EE.B.8
One-step equations with multiplication	6.EE.B.7
One step equation intuition	6.EE.B.7
One step equations	6.EE.B.7
Order of operations	6.EE.A.2c
Positive and zero exponents	6.EE.A.1
Solving equations and inequalities through substitution	6.EE.B.5
Writing expressions	6.EE.A.2 | 6.EE.A.2a | 6.EE.A.2b
Writing expressions 2	6.EE.A.2 | 6.EE.A.2a | 6.EE.A.2b
Writing expressions with variables word problems	6.EE.A.2 | 6.EE.A.2a
Writing numerical expressions with exponents word problems	6.EE.A.1

RIT Range: 226 - 230

Average word problems	7.EE.B.3
Combining like terms with distribution	7.EE.A.1
Discount, tax, and tip word problems	7.EE.B.3
Interpreting linear expressions	7.EE.A.2
Interpreting and solving linear inequalities	7.EE.B.4b
2- step equations	7.EE.B.4
Linear equation word problems	7.EE.B.4 | 7.EE.B.4a
Manipulating linear expressions with rational coefficients	7.EE.A.1
Markup and commission word problems	7.EE.B.3
Multi-step equations without variables	7.EE.B.3
One step inequalities	7.EE.B.4

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 231 - 234

Age word problems	8.EE.C.7 | 8.EE.C.7b
Angle addition postulate	8.EE.C.7b
Rates and proportional relationships	8.EE.B.5
Computing in scientific notation	8.EE.A.4
Constructing consistent and inconsistent systems	8.EE.C.8a
Converting multi-digit repeating decimals to fractions	8.EE.C.7
Cube roots	8.EE.A.2
Evaluating expressions with exponents	8.EE.A.1
Negative exponents	8.EE.A.1
Graphical solutions to systems	8.EE.C.8a
Graphing systems of equations	8.EE.C.8 | 8.EE.C.8a | HSA-REI.C.6
Graphing proportional relationships	8.EE.B.5
Integer sums	8.EE.C.7b
Equations with variables on both sides	8.EE.C.7 | 8.EE.C.7b
Midpoint of a segment	8.EE.C.7b
Multiplying and dividing scientific notation	8.EE.A.4
Multi-step equations with distribution	8.EE.C.7 | 8.EE.C.7b
Orders of magnitude	8.EE.A.3
Scientific notation	8.EE.A.4
Segment addition	8.EE.C.7b
Slope and triangle similarity	8.EE.B.6
Solutions to systems of equations	8.EE.C.8 | HSA-REI.C.6
Solutions to linear equations	8.EE.C.7 | 8.EE.C.7a
Square roots of perfect squares	8.EE.A.2
Systems of equations	8.EE.C.8 | 8.EE.C.8a | 8.EE.C.8b | HSA-REI.C.6
Systems of equations with elimination	8.EE.C.8 | 8.EE.C.8b
Systems of equations with simple elimination	8.EE.C.8 | 8.EE.C.8b
Systems of equations with substitution	8.EE.C.8 | 8.EE.C.8b

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 231 - 234

Systems of equations word problems

8.EE.C.8 | 8.EE.C.8c | HSA-REI.C.6

Understanding systems of equations word problems

8.EE.C.8 | 8.EE.C.8a | 8.EE.C.8b | 8.EE.C.8c

Vertical angles 2

8.EE.C.7b

RIT Range: > 235

Adding and subtracting polynomials

HSA-APR.A.1

Solving quadratics by completing the square 1

HSA-REI.B.4 | HSA-REI.B.4a | HSA-SSE.B.3 | HSA-SSE.B.3b

Solving quadratics by completing the square 2

HSA-REI.B.4 | HSA-REI.B.4a | HSA-SSE.B.3 | HSA-SSE.B.3b

Completing the square in quadratic expressions

HSA-SSE.B.3b

Compound inequalities

HSA-REI.B.3

Equivalent forms of expressions with variable exponents

HSA-SSE.B.3c

Factoring difference of squares 1

HSA-SSE.A.2

Factoring difference of squares 2

HSA-SSE.A.2

Factoring difference of squares 3

HSA-SSE.A.2

Factoring linear binomials

HSA-SSE.A.2

Factoring quadratics 1

HSA-SSE.A.2 | HSA-SSE.B.3 | HSA-SSE.B.3a

Factoring quadratics 2

HSA-SSE.A.2

Factoring polynomials by grouping

HSA-SSE.A.2

Factoring quadratics with two variables

HSA-SSE.A.2

Graphing linear inequalities in two variables

HSA-REI.D.12

Graphing and solving linear inequalities

HSA-REI.D.12

Graphing systems of equations

8.EE.C.8 | 8.EE.C.8a | HSA-REI.C.6

Graphing systems of inequalities

HSA-REI.D.12

Graphing and solving systems of inequalities

HSA-REI.D.12

Graphs of inequalities in two variables

HSA-REI.D.12

Interpreting the structure of expressions

HSA-SSE.A.1 | HSA-SSE.A.1a | HSA-SSE.A.1b

Intersecting functions

HSA-REI.D.11

Multi-step linear inequalities

HSA-REI.B.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: > 235

Manipulating formulas	HSA-CED.A.4
Modeling constraints	HSA-CED.A.3
Modeling with one-variable equations and inequalities	HSA-CED.A.1
Modeling with two-variable equations and graphs	HSA-CED.A.2
Multiplying polynomials	HSA-APR.A.1
Using the quadratic formula	HSA-REI.B.4 | HSA-REI.B.4b
Quadratic formula with complex solutions	HSA-REI.B.4 | HSA-REI.B.4b | HSN-CN.C.7
Rewriting quadratic expressions to reveal key features	HSA-SSE.B.3 | HSA-SSE.B.3a | HSA-SSE.B.3b
Solutions to quadratic equations	HSA-REI.B.4 | HSA-REI.B.4b
Solutions to systems of equations	8.EE.C.8 | HSA-REI.C.6
Solving equations in terms of a variable	HSA-CED.A.4
Solving quadratics by factoring	HSA-REI.B.4 | HSA-REI.B.4b | HSA-SSE.B.3 | HSA-SSE.B.3a
Solving quadratics by factoring 2	HSA-REI.B.4 | HSA-REI.B.4b | HSA-SSE.B.3 | HSA-SSE.B.3a
Solving quadratics by taking the square root	HSA-REI.B.4 | HSA-REI.B.4b
Structure in expressions 1	HSA-SSE.A.1 | HSA-SSE.A.1a | HSA-SSE.A.1b
Systems of equations	8.EE.C.8 | 8.EE.C.8a | 8.EE.C.8b | HSA-REI.C.6
Systems of equations word problems	8.EE.C.8 | 8.EE.C.8c | HSA-REI.C.6
Systems of nonlinear equations	HSA-REI.C.7
Graphically understanding solution methods to systems of equations	HSA-REI.C.5
Understanding the process for solving quadratic equations	HSA-REI.A.1
Understanding the process for solving linear equations	HSA-REI.A.1
Vertex of a parabola	HSA-SSE.B.3 | HSA-SSE.B.3b

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 231 - 234

Comparing linear functions	8.F.A.2
Comparing linear functions applications	8.F.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships   **Standards Alignment**

RIT Range: 231 - 234

Constructing and interpreting linear functions	8.F.B.4 | 8.F.B.5
Graphing linear equations	8.F.B.4 | 8.F.B.5 | HSF-IF.C.7a
Ordered pair solutions to linear equations	8.F.B.4
Interpreting linear relationships	8.F.B.5
Interpreting and finding intercepts of linear functions	8.F.B.4
Interpreting linear functions	8.F.B.4
Interpreting graphs of linear and nonlinear functions	8.F.B.5 | HSA-REI.D.10
Linear function intercepts	8.F.B.4 | HSF-IF.C.7a
Linear and nonlinear functions	8.F.A.3
Equations from tables	8.F.B.4
Recognizing functions	8.F.A.1
Identifying slope of a line	8.F.B.4
Solving for the x-intercept	8.F.B.4
Solving for the y-intercept	8.F.B.4
Views of a function	8.F.A.1

RIT Range: > 235

Average rate of change	HSF-IF.B.6
Comparing features of functions	HSF-IF.C.9
Comparing growth rates of exponentials and polynomials	HSF-LE.A.3
Constructing linear and exponential functions	HSF-LE.A.2
Converting between point-slope and slope-intercept form	HSF-IF.C.7a
Converting between slope-intercept and standard form	HSF-IF.C.7a
Domain and range from graph	HSF-IF.B.5
Domain of a function	HSF-IF.A.1 | HSF-IF.B.5
Even and odd functions	HSF-BF.B.3
Features of trigonometric functions	HSF-IF.C.7e
Understanding function notation	HSF-IF.A.2
Evaluating expressions with function notation	HSF-IF.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: > 235

Graphing linear equations	8.F.B.4 | 8.F.B.5 | HSF-IF.C.7a
Graphing parabolas in standard form	HSF-IF.C.7a
Graphing parabolas in vertex form	HSF-IF.C.7a
Graphing parabolas in all forms	HSF-IF.C.7a
Graphs of piecewise functions	HSF-IF.C.7b
Graphs of absolute value functions	HSF-IF.C.7b
Graphs of exponentials and logarithms	HSF-IF.C.7e
Graphs of square root functions	HSF-IF.C.7b
Graphs of trigonometric functions	HSF-IF.C.7e
Interpreting features of functions	HSF-IF.B.4
Interpreting graphs of linear and nonlinear functions	8.F.B.5 | HSA-REI.D.10
Inverses of linear functions	HSF-BF.B.4a
Line graph intuition	HSF-IF.C.7a
Linear function intercepts	8.F.B.4 | HSF-IF.C.7a
Modeling with exponential functions	HSF-LE.B.5
Modeling with one-variable equations and inequalities	HSF-BF.A.1b
Point slope form	HSF-IF.C.7a
Positive and negative parts of functions	HSF-IF.B.4
Range of a function	HSF-IF.A.1
Recognizing features of functions	HSF-IF.B.4
Recognizing functions 2	HSF-IF.A.1
Recursive and explicit functions	HSF-BF.A.1a | HSF-BF.A.2 | HSF-IF.A.3
Rewriting quadratic expressions to reveal key features	HSF-IF.C.8 | HSF-IF.C.8a
Shifting and reflecting functions	HSF-BF.B.3
Slope intercept form	HSF-IF.C.7a
Understanding linear and exponential models	HSF-LE.A.1a | HSF-LE.A.1b | HSF-LE.A.1c

Statistics and Probability

Interpreting Categorical and Quantitative Data

Standards Alignment

RIT Range: 161 - 178

Solving problems with bar graphs 1

1.MD.C.4

RIT Range: 179 - 191

Solving problems with bar graphs 2

2.MD.D.10

Solving problems with line plots 1

2.MD.D.9

Solving problems with picture graphs 1

2.MD.D.10 | 2.OA.A.1

RIT Range: 192 - 203

Creating picture and bar graphs 2

3.MD.B.3

Solving problems with bar graphs 3

3.MD.B.3

Solving problems with picture graphs 2

3.MD.B.3

RIT Range: 204 - 212

Interpreting line plots with fraction addition and subtraction

4.MD.B.4

RIT Range: 213 - 220

Interpreting line plots with fraction multiplication and division

5.MD.B.2

Visualizing and interpreting relationships between patterns

5.OA.B.3

RIT Range: 221 - 225

Analyzing data with box plots

6.SP.A.2 | 6.SP.A.3 | 6.SP.B.5

Creating bar charts

6.SP.B.4

Creating box and whisker plots

6.SP.B.4

Exploring mean and median

6.SP.B.5d

Mean, median, and mode

6.SP.A.2 | 6.SP.A.3 | 6.SP.B.5 | 6.SP.B.5c

Reading bar charts 1

6.SP.B.5 | 6.SP.B.5a

Reading bar charts 2

6.SP.B.5

Reading bar charts 3

6.SP.B.5

Reading pictographs 1

6.SP.B.5 | 6.SP.B.5a

Reading pictographs 2

6.SP.B.5 | 6.SP.B.5a

Statistics and Probability

Interpreting Categorical and Quantitative Data   **Standards Alignment**

RIT Range: 221 - 225

Statistical questions   6.SP.A.1

Understanding the mean   6.SP.A.2 | 6.SP.A.3

RIT Range: 226 - 230

Comparing populations   7.SP.B.3 | 7.SP.B.4

RIT Range: 231 - 234

Constructing scatter plots   8.SP.A.1

Frequencies of bivariate data   8.SP.A.4

Interpreting scatter plots   8.SP.A.1

Linear models of bivariate data   8.SP.A.3 | HSS-ID.B.6 | HSS-ID.B.6a | HSS-ID.B.6c | HSS-ID.C.7

Estimating the line of best fit   8.SP.A.2 | HSS-ID.B.6 | HSS-ID.B.6c

RIT Range: > 235

Exploring standard deviation   HSS-ID.A.3

Interpreting and comparing data distributions   HSS-ID.A.1 | HSS-ID.A.2 | HSS-ID.A.3

Linear models of bivariate data   8.SP.A.3 | HSS-ID.B.6 | HSS-ID.B.6a | HSS-ID.B.6c | HSS-ID.C.7

Estimating the line of best fit   8.SP.A.2 | HSS-ID.B.6 | HSS-ID.B.6c

Standard deviation of a population   HSS-ID.A.2

Trends in categorical data   HSS-CP.A.4 | HSS-CP.A.5 | HSS-CP.B.6 | HSS-ID.B.5

Types of statistical studies   HSS-ID.C.9

Statistics and Probability

Using Sampling and Probability to Make Decisions   **Standards Alignment**

RIT Range: 226 - 230

Compound events   7.SP.C.8a | 7.SP.C.8b

Probability space   7.SP.C.8b

Finding probability   7.SP.C.6

Statistics and Probability

Using Sampling and Probability to Make Decisions　　　　　　　**Standards Alignment**

RIT Range:　226 - 230

Probability 1	7.SP.C.7	7.SP.C.7a
Probability models	7.SP.C.7	7.SP.C.7b
Sample spaces for compound events	7.SP.C.8b
Understanding probability	7.SP.C.5
Valid claims	7.SP.A.1
Variation in samples	7.SP.A.2

RIT Range:　> 235

Adding probabilities	HSS-CP.B.7
Describing subsets of sample spaces	HSS-CP.A.1
Identifying dependent and independent events	HSS-CP.A.2	HSS-CP.A.3

The Real and Complex Number Systems

Extend and Use Properties　　　　　　　**Standards Alignment**

RIT Range:　< 160

Compare groups through 10	K.CC.C.6
Count from any number	K.CC.A.2
Count to 100	K.CC.A.1
How many objects 1	K.CC.B.5
How many objects 2	K.CC.B.5
Teen numbers 1	K.NBT.A.1

RIT Range:　161 - 178

Comparing two-digit numbers 1	1.NBT.B.3
Groups of tens	1.NBT.B.2	1.NBT.B.2c
Halves and fourths	1.G.A.3
Numbers to 120	1.NBT.A.1
Teen numbers 2	1.NBT.B.2	1.NBT.B.2b
Understanding 2-digit numbers	1.NBT.B.2

The Real and Complex Number Systems

Extend and Use Properties   Standards Alignment

RIT Range: 179 - 191

Comparing whole numbers	2.NBT.A.4
Comparing numbers within 1000	2.NBT.A.4
Counting money (U.S.)	2.NBT.A.2
Equal parts of circles and rectangles	2.G.A.3
Hundreds, tens, and ones	2.NBT.A.1 | 2.NBT.A.1a | 2.NBT.A.1b
Skip-counting by 100s	2.NBT.A.2
Skip-counting by 10s	2.NBT.A.2
Skip-counting by 5s	2.NBT.A.2
Writing numbers to 1000	2.NBT.A.3

RIT Range: 192 - 203

Addition within 100	3.NBT.A.2
Comparing fractions 1	3.NF.A.3 | 3.NF.A.3d
Comparing fractions with the same denominator	3.NF.A.3 | 3.NF.A.3d
Comparing fractions with the same numerator	3.NF.A.3 | 3.NF.A.3d
Cutting shapes into equal parts	3.G.A.2
Equivalent fraction models	3.NF.A.3 | 3.NF.A.3b
Finding 1 on the number line	3.NF.A.2 | 3.NF.A.2b | 3.NF.A.3c
Fractions on the number line 1	3.NF.A.2
Fractions on the number line 2	3.NF.A.2 | 3.NF.A.2b
Fractions greater than one	3.NF.A.1 | 3.NF.A.1
Meaning of division	3.OA.A.2
Meaning of multiplication	3.OA.A.1
Naming the whole	3.NF.A.3d
Properties of multiplication 1	3.OA.B.5
Properties of multiplication 2	3.OA.B.5
Identifying numerators and denominators	3.NF.A.1
Recognizing fractions	3.NF.A.1 | 3.NF.A.1
Rounding to the nearest ten or hundred	3.NBT.A.1

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 192 - 203

Subtraction within 100	3.NBT.A.2

RIT Range: 204 - 212

Adding fractions with 10 and 100 as denominators	4.NF.C.5
Adding and subtracting mixed numbers 0.5	4.NF.B.3c
Comparing decimals 1	4.NF.C.7
Comparing fractions 2	4.NF.A.2
Comparing improper fractions and mixed numbers	4.NF.A.2
Comparing with multiplication	4.OA.A.1
Composite numbers	4.OA.B.4
Converting decimals to fractions 1	4.NF.C.6
Fractions as division by 10 or 100	4.NF.C.6
Decimals on the number line 1	4.NF.C.6 | 4.NF.C.6
Decimals on the number line 2	4.NF.C.6 | 4.NF.C.6
Equivalent fractions	4.NF.A.1
Fractions as division by a multiple of 10	4.NF.C.6
Fractions cut and copy 1	4.NF.A.1
Ordering fractions	4.NF.A.2
Place value	4.NBT.A.2
Prime numbers	4.OA.B.4
Rounding whole numbers	4.NBT.A.3
Understanding place value	4.NBT.A.1
Understanding whole number representations	4.NBT.A.2
Unit sense	4.MD.A.1
Visualizing equivalent fractions	4.NF.A.1

RIT Range: 213 - 220

Comparing decimals 2	5.NBT.A.3b
Comparing decimal place value	5.NBT.A.1 | 5.NBT.A.1

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 213 - 220

Coordinate plane word problems in the first quadrant	5.G.A.2
Graphing points	5.G.A.1 | 5.G.A.2
Ordering decimals	5.NBT.A.3b
Patterns in zeros	5.NBT.A.2
Regrouping decimals	5.NBT.A.1
Regrouping whole numbers	5.NBT.A.1
Rounding numbers	5.NBT.A.4
Money and decimal place value intuition	5.NBT.A.3
Understanding moving the decimal	5.NBT.A.2
Understanding fractions as division	5.NF.B.3
Writing and interpreting decimals	5.NBT.A.3a

RIT Range: 221 - 225

Finding absolute values	6.NS.C.7 | 6.NS.C.7c
Absolute value word problems	6.NS.C.7 | 6.NS.C.7c | 6.NS.C.7d
Comparing absolute values	6.NS.C.7 | 6.NS.C.7c
Coordinate plane word problems in all four quadrants	6.NS.C.8
Decimals on the number line 3	6.NS.C.6c
Fractions on the number line 3	6.NS.C.6
Graphing points and naming quadrants	6.NS.C.6 | 6.NS.C.6b | 6.NS.C.6c
Points on the coordinate plane	6.NS.C.6 | 6.NS.C.6b | 6.NS.C.6c
Negative number word problems	6.NS.C.5
Negative numbers on the number line	6.NS.C.6 | 6.NS.C.6a | 6.NS.C.6c
Number line 3	6.NS.C.6 | 6.NS.C.6a | 6.NS.C.6c
Number opposites	6.NS.C.6 | 6.NS.C.6a
Ordering negative numbers	6.NS.C.7 | 6.NS.C.7c
Reflecting points	6.NS.C.6 | 6.NS.C.6c
Comparing positive and negative numbers on the number line	6.NS.C.7a
Writing numerical inequalities	6.NS.C.7b

The Real and Complex Number Systems

Extend and Use Properties   **Standards Alignment**

RIT Range: 231 - 234

Approximating irrational numbers	8.NS.A.2
Converting decimals to fractions 2	8.NS.A.1
Converting 1-digit repeating decimals to fractions	8.NS.A.1
Converting multi-digit repeating decimals to fractions	8.NS.A.1
Properties of exponents	8.EE.A.1
Recognizing rational and irrational numbers	8.NS.A.1
Scientific notation intuition	8.EE.A.4
Writing fractions as repeating decimals	8.NS.A.1

RIT Range: > 235

Fractional exponents	HSN-RN.A.2
Fractional exponents 2	HSN-RN.A.2
Manipulating fractional exponents	HSN-RN.A.2
Simplifying radicals 2	HSN-RN.A.2
Simplifying expressions with exponents	HSN-RN.A.2

The Real and Complex Number Systems

Perform Operations   **Standards Alignment**

RIT Range: < 160

Addition word problems within 10	K.OA.A.2
Making five	K.OA.A.4
Making ten	K.OA.A.4
Making ten 2	K.OA.A.4
Subtraction word problems within 10	K.OA.A.2

RIT Range: 161 - 178

Adding three numbers	1.OA.A.2
Addition within 20	1.OA.C.6
Addition and subtraction within 10	1.OA.D.8

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 161 - 178

Addition and subtraction word problems within 20: Level 1	1.OA.A.1
Addition and subtraction word problems within 20: Level 2	1.OA.A.1
Addition and subtraction word problems within 20: Level 3	1.OA.A.1
Addition and subtraction word problems within 20: Level 4	1.OA.A.1
Add within 100: Level 1	1.NBT.C.4
Add within 100: Level 2	1.NBT.C.4
Meaning of equal sign 1	1.OA.D.7
Subtract tens	1.NBT.C.6

RIT Range: 179 - 191

Addition and subtraction word problems within 100: Level 1	2.OA.A.1
Addition and subtraction word problems within 100: Level 2	2.OA.A.1
Addition and subtraction word problems within 100: Level 3	2.OA.A.1
Addition and subtraction word problems within 100: Level 4	2.OA.A.1
Add within 1000: Level 1	2.NBT.B.7
Add within 1000: Level 2	2.NBT.B.7
Length word problems	2.OA.A.1
Repeated addition	2.OA.C.4
Subtraction within 20	2.NBT.B.5
Subtract within 1000: Level 1	2.NBT.B.7
Subtract within 1000: Level 2	2.NBT.B.7

RIT Range: 192 - 203

Addition within 100	3.NBT.A.2
Addition within 1000	3.NBT.A.2 | 4.NBT.B.4
Basic division	3.OA.A.4
1-digit division	3.OA.A.4
Mass word problems	3.MD.A.2
Multiplying 1-digit numbers	3.OA.A.4

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 192 - 203

Multiply by tens	3.NBT.A.3
Multiply by tens word problems	3.NBT.A.3
Number line 1	3.OA.C.7
Math patterns 1	3.OA.D.9
Identifying numerators and denominators	3.NF.A.1
Relate division to multiplication	3.OA.B.6
Subtraction within 100	3.NBT.A.2
Subtraction within 1000	3.NBT.A.2 | 4.NBT.B.4
Telling time word problems	3.MD.A.1
Two-step word problems with addition, subtraction, multiplication, and division	3.OA.D.8

RIT Range: 204 - 212

Adding fractions with 10 and 100 as denominators	4.NF.C.5
Adding and subtracting mixed numbers 0.5	4.NF.B.3c
Adding and subtracting fractions with like denominators word problems	4.NF.B.3d
Addition within 1000	3.NBT.A.2 | 4.NBT.B.4
Multiplication and division word problems	4.OA.A.2
Comparing with multiplication	4.OA.A.1
Converting decimals to fractions 1	4.NF.C.6
Fractions as division by 10 or 100	4.NF.C.6
Decomposing fractions	4.NF.B.3b
Divisibility 0.5	4.OA.B.4
Divisibility intuition	4.OA.B.4
Multi-digit division without remainders	4.NBT.B.6
Division with remainders	4.NBT.B.6
Fraction word problems 1	4.NF.B.3d
Fractions as division by a multiple of 10	4.NF.C.6
Measurement word problems with metric units	4.MD.A.2

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 204 - 212

Measurement word problems with US customary units	4.MD.A.2
Measuring and converting money word problems	4.MD.A.2
Measuring time word problems	4.MD.A.2
Multiplication without carrying	4.NBT.B.5
Multiplication with carrying	4.NBT.B.5
Multiplying 2 digits by 2 digits	4.NBT.B.5
Multiplying fractions by integers	4.NF.B.4
Multiplying 2 digits by 2 digits with area models	4.NBT.B.5
Multiplying 4 digits by 1 digit with visual models	4.NBT.B.5
Multiplying fractions and whole numbers word problems	4.NF.B.4c
Multi-step word problems with whole numbers	4.OA.A.3
Subtracting fractions with common denominators	4.NF.B.3a
Subtraction within 1000	3.NBT.A.2 | 4.NBT.B.4
Understanding multiplying fractions and whole numbers	4.NF.B.4 | 4.NF.B.4a
Understanding place value	4.NBT.A.1

RIT Range: 213 - 220

Adding decimals 1	5.NBT.B.7
Adding decimals 0.5	5.NBT.B.7
Adding fractions with unlike denominators	5.NF.A.1
Adding and subtracting mixed numbers 1	5.NF.A.1
Adding and subtracting fractions with unlike denominators word problems	5.NF.A.2
Dividing completely	5.NBT.B.7
Dividing decimals 1	5.NBT.B.7
Dividing decimals 2	5.NBT.B.7
Dividing decimals 3	5.NBT.B.7
Dividing whole numbers by fractions	5.NF.B.7
Dividing fractions by whole numbers	5.NF.B.7 | 5.NF.B.7a
Division by 2 digits	5.NBT.B.6

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 213 - 220

Division with fractions and whole numbers word problems	5.NF.B.7c
Expressions with parentheses	5.OA.A.1	5.OA.A.2
Multi-digit multiplication	5.NBT.B.5
Multiplying decimals 1	5.NBT.B.7
Multiplying decimals 2	5.NBT.B.7
Multiplying fractions by fractions word problems	5.NF.B.6
Patterns in zeros	5.NBT.A.2
Regrouping decimals	5.NBT.A.1
Regrouping whole numbers	5.NBT.A.1
Subtracting decimals	5.NBT.B.7
Subtracting decimals 0.5	5.NBT.B.7
Subtracting fractions with unlike denominators	5.NF.A.1
Understanding moving the decimal	5.NBT.A.2
Understanding fractions as division	5.NF.B.3

RIT Range: 221 - 225

Adding and subtracting decimals word problems	6.NS.B.3
Adding decimals 2	6.NS.B.3
Dividing decimals 4	6.NS.B.3
Dividing positive fractions	6.NS.A.1
Dividing fractions by fractions and whole numbers applications	6.NS.A.1
Multi-digit division	6.NS.B.2
Greatest common divisor	6.NS.B.4
Least common multiple	6.NS.B.4
Multiplying decimals 3	6.NS.B.3
Subtracting decimals 2	6.NS.B.3
Understanding dividing fractions by fractions	6.NS.A.1

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 226 - 230

Adding and subtracting fractions	7.NS.A.1 | 7.NS.A.1d
Adding and subtracting negative numbers	7.NS.A.1 | 7.NS.A.1c | 7.NS.A.1d
Adding and subtracting rational numbers	7.NS.A.1d
Adding negative numbers	7.NS.A.1 | 7.NS.A.1c
Adding and subtracting negative numbers word problems	7.NS.A.1 | 7.NS.A.1b | 7.NS.A.1c
Constructing and interpreting absolute value	7.NS.A.1 | 7.NS.A.1a | 7.NS.A.1b | 7.NS.A.1c
Converting fractions to decimals	7.NS.A.2 | 7.NS.A.2d
Dividing positive and negative fractions	7.NS.A.2b
Positive and zero exponents of integers	7.NS.A.2
Positive exponents with positive and negative bases	7.NS.A.2
Multiplying and dividing negative numbers	7.NS.A.2 | 7.NS.A.2a
Multiplying fractions	7.NS.A.2a
Operations with rational numbers	7.NS.A.3
Order of operations with negative numbers	7.NS.A.1 | 7.NS.A.2
Rational number word problems	7.NS.A.3
Understanding addition and subtraction with negative numbers	7.NS.A.1 | 7.NS.A.1a | 7.NS.A.1b | 7.NS.A.1c | 7.NS.A.1d

RIT Range: > 235

Adding and subtracting complex numbers	HSN-CN.A.2
Adding and subtracting radicals	HSN-RN.A.2
Imaginary unit powers	HSN-CN.A.2
Measurement precision	HSN-Q.A.3
Multiplying complex numbers	HSN-CN.A.2
The imaginary unit and complex numbers	HSN-CN.A.1
Units and scale of graphs	HSN-Q.A.1
Reasonable units	HSN-Q.A.1
Working with units algebraically	HSN-Q.A.1

The Real and Complex Number Systems

Ratios and Proportional Relationships   **Standards Alignment**

RIT Range: 192 - 203

Comparing fractions 1	3.NF.A.3
Comparing fractions with the same denominator	3.NF.A.3
Comparing fractions with the same numerator	3.NF.A.3
Equivalent fraction models	3.NF.A.3 | 3.NF.A.3b

RIT Range: 204 - 212

Multiplication and division word problems	4.OA.A.2
Comparing fractions 2	4.NF.A.2
Comparing improper fractions and mixed numbers	4.NF.A.2
Measurement units	4.MD.A.1 | 4.MD.A.1
Measurement word problems with metric units	4.MD.A.2
Measurement word problems with US customary units	4.MD.A.2
Measuring and converting money word problems	4.MD.A.2
Measuring time word problems	4.MD.A.2
Multi-step word problems with whole numbers	4.OA.A.3
Ordering fractions	4.NF.A.2
Unit sense	4.MD.A.1

RIT Range: 213 - 220

Adding and subtracting fractions with unlike denominators word problems	5.NF.A.2
Converting measurements word problems	5.MD.A.1
Converting units	5.MD.A.1
Division by 2 digits	5.NBT.B.6
Division with fractions and whole numbers word problems	5.NF.B.7c
Multiplying fractions by fractions word problems	5.NF.B.6

RIT Range: 221 - 225

Finding percents	6.RP.A.3 | 6.RP.A.3c
Percentage word problems 1	6.RP.A.3 | 6.RP.A.3c
Rate problems 0.5	6.RP.A.2 | 6.RP.A.3 | 6.RP.A.3b

The Real and Complex Number Systems

Ratios and Proportional Relationships

Standards Alignment

RIT Range: 221 - 225

Ratio word problems — 6.RP.A.2 | 6.RP.A.3 | 6.RP.A.3b

Solving ratio problems with tables — 6.RP.A.3 | 6.RP.A.3a

Units — 6.RP.A.3 | 6.RP.A.3d

RIT Range: 226 - 230

Analyzing and identifying proportional relationships — 7.RP.A.2a | 7.RP.A.2c | 7.RP.A.2d

Constructing and comparing proportional relationships — 7.RP.A.2a | 7.RP.A.2c | 7.RP.A.2d

Constructing proportions to solve application problems — 7.RP.A.3

Proportions 1 — 7.RP.A.3

Rate problems 1 — 7.RP.A.1 | 7.RP.A.2b

Rate problems 2 — 7.RP.A.3

Writing proportions — 7.RP.A.3