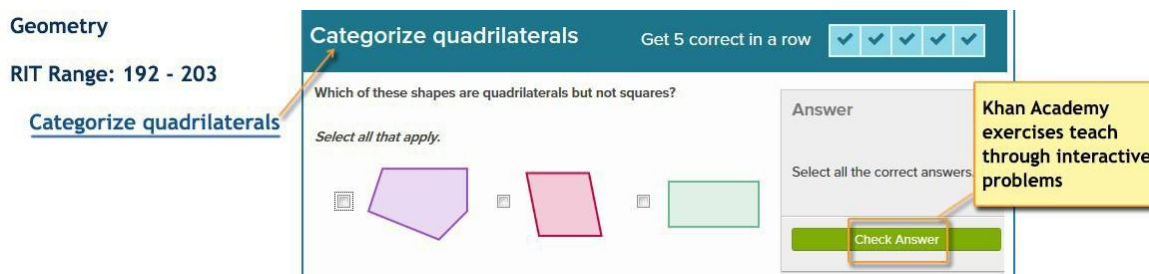# MAP Growth Mathematics to Khan Academy

Khan Academy Practice Exercises Correlated to RIT

Common Core MAP Growth Math 6+

About this Document

This document correlates MAP® Growth™ test sub-goals and RIT ranges to Khan Academy® exercises. The Khan Academy 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 Growth RIT scores and the Khan Academy exercises was determined by using our 2020 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 Growth 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:
    * Consider both the name of the exercise and the CCSS standard.
    * 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 Growth.

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 Growth data should be used as one of many data points for instructional decisions rather than as a placement guide.

Terms of Use

These Terms of Use permit you to use this document for your personal, non-commercial use only. You must not reproduce, distribute, modify, create derivative works of, publicly display, publicly perform, republish, download, store or transmit any of the material on this document, except you may print or download one copy of a reasonable number of pages of this document for your own personal, non-commercial use and not for further reproduction, publication or distribution. You must not modify copies of this document. You must not delete or alter any copyright, trademark or other proprietary rights notices from this document. If you breach the Terms of Use your right to use the document will cease immediately and you must, at the option of NWEA®, return or destroy any copies of the document you have made. No right, title or interest in or to the document or any content on the document is transferred to you, and all rights not expressly granted are reserved by NWEA or their respective owner (see below). Any use of the document not expressly permitted by these Terms of Use is a breach of these Terms of Use and may violate copyright, trademark and other laws.

This document contains links to Khan Academy sites, materials and/or resources ("Khan Materials"). The use of the Khan Materials by NWEA is by license. Khan Academy is the respective owner of the Khan Materials. Use of the Khan Materials by NWEA in no way represents or suggests that Khan Academy endorses NWEA. All Khan Academy content is available for free at www.khanacademy.org.

The Khan Materials are provided for your convenience only. NWEA has no control over the contents of the Khan Materials and accepts no responsibility for them or for any loss or damage that may arise from your use of them. The information contained in this document, including the Khan Materials, are provided "as-is" and "as available" without any warranty of any kind, express or implied. NWEA does not warrant the accuracy, completeness or usefulness of the Khan Materials or any other information in this document and NWEA expressly disclaims all liability and responsibility arising from any reliance placed on the Khan Materials and/or any other information in this document. If you decide to access any of the Khan Materials, you do so entirely at your own risk and subject to the terms and conditions of use for the Khan Materials.

NWEA disclaims all warranties of any kind, whether express or implied, statutory or otherwise, including but not limited to any warranties of merchantability, non-infringement and fitness for particular purpose. In no event will NWEA be liable for damages of any kind, under any legal theory, arising out of or in connection with your use, or inability to use, this document and/or the information contained within it, including any direct, indirect, special, consequential, incidental or punitive damages. Any dispute or claim arising from or related to this document shall be governed and construed with the laws of the State or Oregon and any suit or action arising out of this document shall be instituted exclusively in the court of the State of Oregon and County of Multnomah.

The Khan Academy® is a registered trademark of Khan Academy. MAP® is a registered trademark of NWEA. You must not use such marks without the prior written permission of their respective owners. NWEA may update the content on this document from time to time, but its content is not necessarily complete or up-to-date. Any of the material in this document may be out of date at any given time, and NWEA is under no obligation to update such material. However, in the event NWEA, in its sole discretion updates this document, your continued use of it following the posting of revised Terms of Use means that you accept and agree to the changes.

MAP Growth Mathematics
Khan Academy Practice Exercises Correlation

Common Core Math 6+

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 189-200

Relate division to multiplication word problems   3.OA.A.3 | 3.OA.B.6

Find missing divisors and dividends (1-digit division)   3.OA.A.4

Find missing factors (1-digit multiplication)   3.OA.A.4

Letters and symbols in multiplication and division equations   3.OA.A.4

Associative property of multiplication   3.OA.B.5

Commutative property of multiplication   3.OA.B.5

Distributive property of multiplication   3.OA.B.5

Represent 2-step word problems with equations   3.OA.D.8

RIT Range: 201-210

Multi-step word problems with whole numbers   4.OA.A.3

Represent multi-step word problems using equations   4.OA.A.3

RIT Range: 211-217

Powers of ten   5.NBT.A.2

Evaluate expressions with parentheses   5.OA.A.1

Create expressions with parentheses   5.OA.A.2

Translate expressions with parentheses   5.OA.A.2

RIT Range: 218-221

Exponents   6.EE.A.1

Exponents (basic)   6.EE.A.1

Powers of fractions   6.EE.A.1

Variable expressions with exponents   6.EE.A.1

Order of operations challenge   6.EE.A.1 | 6.EE.A.2

Evaluating expressions with multiple variables   6.EE.A.2

Evaluating expressions with multiple variables: fractions & decimals 6.EE.A.2

Evaluating expressions with one variable   6.EE.A.2

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 218-221

[Evaluating expressions with variables word problems](#)	6.EE.A.2
[Expression value intuition](#)	6.EE.A.2
[Order of operations](#)	6.EE.A.2
[Parts of algebraic expressions](#)	6.EE.A.2
[Writing basic expressions with variables](#)	6.EE.A.2
[Writing basic expressions word problems](#)	6.EE.A.2
[Writing expressions with variables](#)	6.EE.A.2
[Writing expressions word problems](#)	6.EE.A.2 | 7.EE.A.2
[Combining like terms](#)	6.EE.A.3
[Create equivalent expressions by factoring](#)	6.EE.A.3
[Distributive property with variables](#)	6.EE.A.3
[Equivalent expressions](#)	6.EE.A.3
[Factor with distributive property (variables)](#)	6.EE.A.3
[Factor with the distributive property (no variables)](#)	6.EE.A.3
[Testing solutions to inequalities](#)	6.EE.B.5
[Testing solutions to inequalities (basic)](#)	6.EE.B.5
[Identify equations from visual models (hanger diagrams)](#)	6.EE.B.5 | 6.EE.B.7
[Identify equations from visual models (tape diagrams)](#)	6.EE.B.5 | 6.EE.B.7
[Solve equations from visual models](#)	6.EE.B.5 | 6.EE.B.7
[Testing solutions to equations](#)	6.EE.B.5 | 6.EE.B.7
[Model with one-step equations](#)	6.EE.B.6 | 6.EE.B.7
[Model with one-step equations and solve](#)	6.EE.B.6 | 6.EE.B.7
[Translate one-step equations and solve](#)	6.EE.B.6 | 6.EE.B.7
[Find the mistake in one-step equations](#)	6.EE.B.7
[One-step addition & subtraction equations](#)	6.EE.B.7
[One-step addition & subtraction equations: fractions & decimals](#)	6.EE.B.7

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 218-221

One-step multiplication & division equations	6.EE.B.7
One-step multiplication & division equations: fractions & decimals	6.EE.B.7
Inequalities word problems	6.EE.B.7 | 6.EE.B.8
Graphing basic inequalities	6.EE.B.8
Inequality from graph	6.EE.B.8 | 7.EE.B.4
Plotting inequalities	6.EE.B.8 | 7.EE.B.4
Independent versus dependent variables	6.EE.C.9
Match equations to coordinates on a line	6.EE.C.9
Relationships between quantities in equations and graphs	6.EE.C.9
Tables from equations with 2 variables	6.EE.C.9

RIT Range: 222-226

Writing expressions word problems	6.EE.A.2 | 7.EE.A.2
Inequality from graph	6.EE.B.8 | 7.EE.B.4
Plotting inequalities	6.EE.B.8 | 7.EE.B.4
Combining like terms with negative coefficients	7.EE.A.1
Combining like terms with negative coefficients & distribution	7.EE.A.1
Combining like terms with rational coefficients	7.EE.A.1
Distributive property with variables (negative numbers)	7.EE.A.1
Equivalent expressions: negative numbers & distribution	7.EE.A.1
Interpreting linear expressions	7.EE.A.2
Rational number word problems	7.EE.B.3
Find the mistake: two-step equations	7.EE.B.4
Interpret two-step equation word problems	7.EE.B.4
One-step inequalities	7.EE.B.4
Two-step equations	7.EE.B.4

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 222-226

Two-step equations with decimals and fractions	7.EE.B.4
Two-step equations word problems	7.EE.B.4
Two-step inequalities	7.EE.B.4
Two-step inequality word problems	7.EE.B.4

RIT Range: 227-228

Divide powers	8.EE.A.1
Exponents with integer bases	8.EE.A.1
Exponents with negative fractional bases	8.EE.A.1
Multiply & divide powers (integer exponents)	8.EE.A.1
Multiply powers	8.EE.A.1
Negative exponents	8.EE.A.1
Powers of powers	8.EE.A.1
Powers of products & quotients	8.EE.A.1
Powers of products & quotients (integer exponents)	8.EE.A.1
Powers of products & quotients (structured practice)	8.EE.A.1
Properties of exponents challenge (integer exponents)	8.EE.A.1
Cube roots	8.EE.A.2
Equations with square roots & cube roots	8.EE.A.2
Equations with square roots: decimals & fractions	8.EE.A.2
Roots of decimals & fractions	8.EE.A.2
Square and cube challenge	8.EE.A.2
Square roots	8.EE.A.2
Scientific notation	8.EE.A.3
Approximating with powers of 10	8.EE.A.3	8.EE.A.4
Multiplication and division with powers of ten	8.EE.A.3	8.EE.A.4

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 227-228

Adding & subtracting in scientific notation	8.EE.A.4
Multiplying & dividing in scientific notation	8.EE.A.4
Scientific notation word problems	8.EE.A.4
Graphing proportional relationships	8.EE.B.5
Rates & proportional relationships	8.EE.B.5
Equations with parentheses	8.EE.C.7
Equations with parentheses: decimals & fractions	8.EE.C.7
Equations with variables on both sides	8.EE.C.7
Equations with variables on both sides: decimals & fractions	8.EE.C.7
Number of solutions to equations	8.EE.C.7
Number of solutions to equations challenge	8.EE.C.7
Sums of consecutive integers	8.EE.C.7
Age word problems	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems (1)	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems (2)	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Equivalent systems of equations	8.EE.C.8 | HSA-REI.C.5
Systems of equations with elimination	8.EE.C.8 | HSA-REI.C.6
Systems of equations with elimination challenge	8.EE.C.8 | HSA-REI.C.6
Systems of equations with substitution	8.EE.C.8 | HSA-REI.C.6
Solutions of systems of equations	8.EE.C.8 | HSA-REI.C.6 | HSA-REI.D.11
Systems of equations with graphing	8.EE.C.8 | HSA-REI.C.6 | HSA-REI.D.11
Linear systems of equations capstone	8.EE.C.8 | HSA-REI.C.6 | HSA-SSE.B.3
Number of solutions to a system of equations algebraically	8.EE.C.8 | HSA-REI.D.10 | HSA-REI.D.11
Number of solutions to a system of equations graphically	8.EE.C.8 | HSA-REI.D.10 | HSA-REI.D.11

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 229-242

Age word problems	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems (1)	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems (2)	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Equivalent systems of equations	8.EE.C.8 | HSA-REI.C.5
Systems of equations with elimination	8.EE.C.8 | HSA-REI.C.6
Systems of equations with elimination challenge	8.EE.C.8 | HSA-REI.C.6
Systems of equations with substitution	8.EE.C.8 | HSA-REI.C.6
Solutions of systems of equations	8.EE.C.8 | HSA-REI.C.6 | HSA-REI.D.11
Systems of equations with graphing	8.EE.C.8 | HSA-REI.C.6 | HSA-REI.D.11
Linear systems of equations capstone	8.EE.C.8 | HSA-REI.C.6 | HSA-SSE.B.3
Number of solutions to a system of equations algebraically	8.EE.C.8 | HSA-REI.D.10 | HSA-REI.D.11
Number of solutions to a system of equations graphically	8.EE.C.8 | HSA-REI.D.10 | HSA-REI.D.11
Add & subtract polynomials	HSA-APR.A.1
Add & subtract polynomials: find the error	HSA-APR.A.1
Add & subtract polynomials: two variables (intro)	HSA-APR.A.1
Add polynomials (intro)	HSA-APR.A.1
Multiply binomials	HSA-APR.A.1
Multiply binomials intro	HSA-APR.A.1
Multiply monomials intro	HSA-APR.A.1
Special products of binomials	HSA-APR.A.1
Special products of binomials intro	HSA-APR.A.1
Subtract polynomials (intro)	HSA-APR.A.1
Multiply monomials	HSA-APR.A.1 | HSA-SSE.A.1
Divide polynomials with remainders	HSA-APR.D.6
Divide polynomials with remainders: binomial divisors	HSA-APR.D.6

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 229-242

Divide polynomials with remainders: monomial divisors	HSA-APR.D.6
Equations & inequalities word problems	HSA-CED.A.1
Multiple units word problems	HSA-CED.A.1
Construct exponential models	HSA-CED.A.2
Graphing linear functions word problems	HSA-CED.A.2
Linear models word problems	HSA-CED.A.2
Systems of equations word problems capstone	HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Constraint solutions of systems of inequalities	HSA-CED.A.3
Constraint solutions of two-variable inequalities	HSA-CED.A.3
Solutions of inequalities: algebraic	HSA-CED.A.3
Solutions of inequalities: graphical	HSA-CED.A.3
Solutions of systems of inequalities	HSA-CED.A.3
Systems of inequalities word problems	HSA-CED.A.3
Two-variable inequalities word problems	HSA-CED.A.3
Manipulate formulas	HSA-CED.A.4
Compound inequalities	HSA-REI.B.3
Linear equations with unknown coefficients	HSA-REI.B.3
Multi-step linear inequalities	HSA-REI.B.3
Number of solutions of quadratic equations	HSA-REI.B.4
Quadratic formula	HSA-REI.B.4
Quadratics by taking square roots	HSA-REI.B.4
Quadratics by taking square roots: strategy	HSA-REI.B.4
Solve equations using structure	HSA-REI.B.4 | HSA-SSE.A.2 | HSA-SSE.B.3
Completing the square	HSA-REI.B.4 | HSA-SSE.B.3
Completing the square (intermediate)	HSA-REI.B.4 | HSA-SSE.B.3

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 229-242

Completing the square (intro)	HSA-REI.B.4 | HSA-SSE.B.3
Quadratic word problems (standard form)	HSA-REI.B.4 | HSA-SSE.B.3
Quadratics by factoring	HSA-REI.B.4 | HSA-SSE.B.3
Quadratics by factoring (intro)	HSA-REI.B.4 | HSA-SSE.B.3
Complete solutions to 2-variable equations	HSA-REI.D.10
Solutions to 2-variable equations	HSA-REI.D.10
Interpret equations graphically	HSA-REI.D.11
Graphs of inequalities	HSA-REI.D.12
Systems of inequalities graphs	HSA-REI.D.12
Two-variable inequalities from their graphs	HSA-REI.D.12
Analyzing structure with linear inequalities	HSA-SSE.A.1 | HSA-SSE.B.3
Interpret change in exponential models: changing units	HSA-SSE.A.1 | HSA-SSE.B.3
Interpret change in exponential models: with manipulation	HSA-SSE.A.1 | HSA-SSE.B.3
Difference of squares	HSA-SSE.A.2
Evaluate expressions using structure	HSA-SSE.A.2
Manipulate expressions using structure	HSA-SSE.A.2
Difference of squares intro	HSA-SSE.A.2 | HSA-SSE.B.3
Factor monomials	HSA-SSE.A.2 | HSA-SSE.B.3
Perfect squares	HSA-SSE.A.2 | HSA-SSE.B.3
Convert linear equations to standard form	HSA-SSE.B.3
Factor quadratics by grouping	HSA-SSE.B.3
Factoring quadratics intro	HSA-SSE.B.3
Features of quadratic functions	HSA-SSE.B.3
Features of quadratic functions: strategy	HSA-SSE.B.3
Interpret change in exponential models	HSA-SSE.B.3
Interpret time in exponential models	HSA-SSE.B.3

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 229-242

Rewrite exponential expressions	HSA-SSE.B.3
Slope from equation	HSA-SSE.B.3

RIT Range: 243-252

Add & subtract polynomials: two variables	HSA-APR.A.1
Multiply binomials by polynomials	HSA-APR.A.1
Multiply monomials by polynomials	HSA-APR.A.1
Multiply monomials by polynomials challenge	HSA-APR.A.1
Multiply monomials by polynomials: area model	HSA-APR.A.1
Multiply monomials	HSA-APR.A.1 | HSA-SSE.A.1
Use the Polynomial Remainder Theorem	HSA-APR.B.2
Positive & negative intervals of polynomials	HSA-APR.B.3
Find zeros of polynomials	HSA-APR.B.3 | HSA-SSE.A.2 | HSA-SSE.B.3
Zeros of polynomials & their graphs	HSA-APR.B.3 | HSA-SSE.A.2 | HSA-SSE.B.3
Prove polynomial identities	HSA-APR.C.4
Simplify rational expressions (advanced)	HSA-APR.D.6
Simplify rational expressions: common binomial factors	HSA-APR.D.6
Simplify rational expressions: common monomial factors	HSA-APR.D.6
Equations with one rational expression	HSA-REI.A.2
Equations with one rational expression (advanced)	HSA-REI.A.2
Equations with two rational expressions	HSA-REI.A.2
Extraneous solutions of radical equations	HSA-REI.A.2
Solve square-root equations	HSA-REI.A.2
Solve square-root equations (basic)	HSA-REI.A.2
Solve quadratic equations: complex solutions	HSA-REI.B.4 | HSN-CN.C.7
Solve equations graphically	HSA-REI.D.11

Operations and Algebraic Thinking

Expressions and Equations   Standards Alignment

RIT Range: 243-252

Factor polynomials: common factor   HSA-SSE.A.1 | HSA-SSE.A.2 | HSA-
                                                 SSE.B.3

Factoring polynomials challenge   HSA-SSE.A.2

Factor polynomials: quadratic methods   HSA-SSE.A.2 | HSA-SSE.B.3

Factor polynomials: quadratic methods (challenge) HSA-SSE.A.2 | HSA-SSE.B.3

Factor polynomials: special product forms   HSA-SSE.A.2 | HSA-SSE.B.3

Equivalent forms of exponential expressions   HSA-SSE.B.3

Finite geometric series   HSA-SSE.B.4

Finite geometric series in sigma notation   HSA-SSE.B.4

Finite geometric series word problems   HSA-SSE.B.4

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 189-200

Math patterns 1   3.OA.D.9

Patterns with even and odd   3.OA.D.9

RIT Range: 201-210

Math patterns 2   4.OA.C.5

RIT Range: 211-217

Coordinate plane word problems (quadrant 1)   5.G.A.2

Graph points   5.G.A.2

Identify coordinates   5.G.A.2

Identify points   5.G.A.2

Graphs of rules that relate 2 variables   5.OA.B.3

Identify points on a line   5.OA.B.3

Relationships between 2 patterns   5.OA.B.3

Tables from rules that relate 2 variables   5.OA.B.3

Write rules that relate 2 variables   5.OA.B.3

RIT Range: 227-228

Complete solutions to 2-variable equations   8.F.A.1

Slope-intercept equation from graph   8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2

Slope-intercept from two points   8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2

Graph from slope-intercept form   8.F.A.1 | 8.F.A.3 | HSF-IF.C.7

Linear equations in any form   8.F.A.1 | 8.F.A.3 | HSF-LE.A.2

Function rules from equations (1)   8.F.A.1 | HSF-IF.A.1

Function rules from equations (2)   8.F.A.1 | HSF-IF.A.1

Recognize functions from graphs   8.F.A.1 | HSF-IF.A.1

Recognize functions from tables   8.F.A.1 | HSF-IF.A.1

Evaluate function expressions   8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 227-228

Evaluate functions from their graph (1)	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Evaluate functions from their graph (2)	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Function inputs & outputs: equation	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Evaluate functions (1)	8.F.A.1 | HSF-IF.A.2
Evaluate functions (2)	8.F.A.1 | HSF-IF.A.2
Function notation word problems	8.F.A.1 | HSF-IF.A.2
Determine the domain of functions	8.F.A.1 | HSF-IF.B.5
Domain and range from graph	8.F.A.1 | HSF-IF.B.5
Function domain word problems	8.F.A.1 | HSF-IF.B.5
Graph from linear standard form	8.F.A.1 | HSF-IF.C.7
Intercepts from a graph	8.F.A.1 | HSF-IF.C.7
Intercepts from a table	8.F.A.1 | HSF-IF.C.7
Linear equations word problems (1)	8.F.A.1 | HSF-LE.B.5
Linear equations word problems (2)	8.F.A.1 | HSF-LE.B.5
Compare linear functions (1)	8.F.A.2 | HSF-IF.C.9
Compare linear functions (2)	8.F.A.2 | HSF-IF.C.9
Intercepts from an equation	8.F.A.3
Linear & nonlinear functions	8.F.A.3
Slope from two points	8.F.B.4
Slope-intercept intro	8.F.B.4 | HSF-IF.C.7 | HSF-LE.A.2
Slope from equation	8.F.B.4 | HSF-IF.C.8
Slope from graph	8.F.B.4 | HSF-LE.A.2
Interpreting graphs of functions	8.F.B.5
Relative maxima and minima	8.F.B.5 | HSF-IF.C.7

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 229-242

Slope-intercept equation from graph	8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2
Slope-intercept from two points	8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2
Graph from slope-intercept form	8.F.A.1 | 8.F.A.3 | HSF-IF.C.7
Linear equations in any form	8.F.A.1 | 8.F.A.3 | HSF-LE.A.2
Function rules from equations (1)	8.F.A.1 | HSF-IF.A.1
Function rules from equations (2)	8.F.A.1 | HSF-IF.A.1
Recognize functions from graphs	8.F.A.1 | HSF-IF.A.1
Recognize functions from tables	8.F.A.1 | HSF-IF.A.1
Evaluate function expressions	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Evaluate functions from their graph (1)	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Evaluate functions from their graph (2)	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Function inputs & outputs: equation	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Evaluate functions (1)	8.F.A.1 | HSF-IF.A.2
Evaluate functions (2)	8.F.A.1 | HSF-IF.A.2
Function notation word problems	8.F.A.1 | HSF-IF.A.2
Determine the domain of functions	8.F.A.1 | HSF-IF.B.5
Domain and range from graph	8.F.A.1 | HSF-IF.B.5
Function domain word problems	8.F.A.1 | HSF-IF.B.5
Graph from linear standard form	8.F.A.1 | HSF-IF.C.7
Intercepts from a graph	8.F.A.1 | HSF-IF.C.7
Intercepts from a table	8.F.A.1 | HSF-IF.C.7
Linear equations word problems (1)	8.F.A.1 | HSF-LE.B.5
Linear equations word problems (2)	8.F.A.1 | HSF-LE.B.5
Compare linear functions (1)	8.F.A.2 | HSF-IF.C.9
Compare linear functions (2)	8.F.A.2 | HSF-IF.C.9
Slope-intercept intro	8.F.B.4 | HSF-IF.C.7 | HSF-LE.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 229-242

Slope from equation	8.F.B.4 | HSF-IF.C.8
Slope from graph	8.F.B.4 | HSF-LE.A.2
Sequences word problems	HSF-BF.A.1 | HSF-BF.A.2 | HSF-LE.A.1 | HSF-LE.A.2
Linear models word problems	HSF-BF.A.1 | HSF-IF.B.4 | HSF-LE.A.2 | HSF-LE.B.5
Construct exponential models	HSF-BF.A.1 | HSF-LE.A.2
Writing linear functions word problems (1)	HSF-BF.A.1 | HSF-LE.A.2
Writing linear functions word problems (2)	HSF-BF.A.1 | HSF-LE.A.2
Converting recursive & explicit forms of arithmetic sequences	HSF-BF.A.2
Converting recursive & explicit forms of geometric sequences	HSF-BF.A.2
Explicit formulas for arithmetic sequences	HSF-BF.A.2 | HSF-LE.A.2
Explicit formulas for geometric sequences	HSF-BF.A.2 | HSF-LE.A.2
Recursive formulas for arithmetic sequences	HSF-BF.A.2 | HSF-LE.A.2
Recursive formulas for geometric sequences	HSF-BF.A.2 | HSF-LE.A.2
Graphs of exponential functions	HSF-BF.B.3 | HSF-IF.C.7
Domain of advanced functions	HSF-IF.A.1
Range of quadratic functions	HSF-IF.A.1
Function inputs & outputs: graph	HSF-IF.A.1 | HSF-IF.A.2
Evaluate sequences in recursive form	HSF-IF.A.2
Use arithmetic sequence formulas	HSF-IF.A.2
Use geometric sequence formulas	HSF-IF.A.2
Linear equations word problems: graphs	HSF-IF.B.4
Linear equations word problems: tables	HSF-IF.B.4
Quadratic word problems (standard form)	HSF-IF.B.4 | HSF-IF.C.8
Comparing linear functions word problems	HSF-IF.B.4 | HSF-IF.C.9 | HSF-LE.B.5
Graph parabolas in all forms	HSF-IF.C.7

Operations and Algebraic Thinking

Use Functions to Model Relationships | Standards Alignment

RIT Range: 229-242

Graph quadratics in factored form	HSF-IF.C.7
Graph quadratics in standard form	HSF-IF.C.7
Graph quadratics in vertex form	HSF-IF.C.7
Graphing exponential growth & decay	HSF-IF.C.7
Graphing linear functions word problems	HSF-IF.C.7
Increasing and decreasing intervals	HSF-IF.C.7
Positive and negative intervals	HSF-IF.C.7
Horizontal & vertical lines	HSF-IF.C.7 | HSF-LE.A.2
Completing the square	HSF-IF.C.8
Completing the square (intermediate)	HSF-IF.C.8
Completing the square (intro)	HSF-IF.C.8
Convert linear equations to standard form	HSF-IF.C.8
Difference of squares	HSF-IF.C.8
Difference of squares intro	HSF-IF.C.8
Factor monomials	HSF-IF.C.8
Factor quadratics by grouping	HSF-IF.C.8
Factoring quadratics intro	HSF-IF.C.8
Features of quadratic functions	HSF-IF.C.8
Features of quadratic functions: strategy	HSF-IF.C.8
Perfect squares	HSF-IF.C.8
Quadratics by factoring	HSF-IF.C.8
Quadratics by factoring (intro)	HSF-IF.C.8
Rewrite exponential expressions	HSF-IF.C.8
Solve equations using structure	HSF-IF.C.8
Compare features of functions	HSF-IF.C.8 | HSF-IF.C.9
Interpret change in exponential models	HSF-IF.C.8 | HSF-LE.B.5

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 229-242

Interpret change in exponential models: changing units	HSF-IF.C.8 | HSF-LE.B.5
Interpret change in exponential models: with manipulation	HSF-IF.C.8 | HSF-LE.B.5
Interpret time in exponential models	HSF-IF.C.8 | HSF-LE.B.5
Compare quadratic functions	HSF-IF.C.9
Exponential vs. linear models	HSF-LE.A.1
Linear vs. exponential growth: from data	HSF-LE.A.1
Exponential functions from tables & graphs	HSF-LE.A.2
Point-slope form	HSF-LE.A.2
Exponential vs. linear growth over time	HSF-LE.A.3

RIT Range: 243-252

Relative maxima and minima	8.F.B.5 | HSF-IF.C.7
Model with function combination	HSF-BF.A.1
Modeling with sinusoidal functions	HSF-BF.A.1 | HSF-TF.B.5
Even & odd functions	HSF-BF.B.3
Even & odd polynomials	HSF-BF.B.3
Shift functions	HSF-BF.B.3
Transforming functions	HSF-BF.B.3
Graph sinusoidal functions	HSF-BF.B.3 | HSF-IF.C.7
Graphs of logarithmic functions	HSF-BF.B.3 | HSF-IF.C.7
Radical functions & their graphs	HSF-BF.B.3 | HSF-IF.C.7
Construct sinusoidal functions	HSF-BF.B.3 | HSF-TF.B.5
Domain of advanced piecewise functions	HSF-IF.A.1
Evaluate piecewise functions	HSF-IF.A.2 | HSF-IF.C.7
Evaluate step functions	HSF-IF.A.2 | HSF-IF.C.7
End behavior of algebraic models	HSF-IF.B.4

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 243-252

Graph interpretation word problems	HSF-IF.B.4
Periodicity of algebraic models	HSF-IF.B.4
Average rate of change	HSF-IF.B.6
Average rate of change word problems	HSF-IF.B.6
Average rate of change: graphs & tables	HSF-IF.B.6
Absolute maxima and minima	HSF-IF.C.7
Amplitude of sinusoidal functions from equation	HSF-IF.C.7
Amplitude of sinusoidal functions from graph	HSF-IF.C.7
Analyze vertical asymptotes of rational functions	HSF-IF.C.7
End behavior of polynomials	HSF-IF.C.7
End behavior of rational functions	HSF-IF.C.7
Graph absolute value functions	HSF-IF.C.7
Graphs of nonlinear piecewise functions	HSF-IF.C.7
Graphs of rational functions	HSF-IF.C.7
Midline of sinusoidal functions from equation	HSF-IF.C.7
Midline of sinusoidal functions from graph	HSF-IF.C.7
Period of sinusoidal functions from equation	HSF-IF.C.7
Period of sinusoidal functions from graph	HSF-IF.C.7
Piecewise functions graphs	HSF-IF.C.7
Positive & negative intervals of polynomials	HSF-IF.C.7
Rational function points of discontinuity	HSF-IF.C.7
Zeros of polynomials & their graphs	HSF-IF.C.7	HSF-IF.C.8
Equivalent forms of exponential expressions	HSF-IF.C.8
Factor polynomials: common factor	HSF-IF.C.8
Factor polynomials: quadratic methods	HSF-IF.C.8
Factor polynomials: quadratic methods (challenge)	HSF-IF.C.8

Operations and Algebraic Thinking

Use Functions to Model Relationships   Standards Alignment

RIT Range: 243-252

Factor polynomials: special product forms	HSF-IF.C.8
Find zeros of polynomials	HSF-IF.C.8
Exponential model word problems	HSF-LE.A.4
Solve exponential equations using logarithms: base-10 and base-e	HSF-LE.A.4
Solve exponential equations using logarithms: base-2 and other bases	HSF-LE.A.4
Modeling with sinusoidal functions: phase shift	HSF-TF.B.5
Use the Pythagorean identity	HSF-TF.C.8

RIT Range: >253

Model with composite functions	HSF-BF.A.1
Evaluate logarithms: change of base rule	HSF-LE.A.4

The Real and Complex Number Systems

Ratios and Proportional Relationships	Standards Alignment
RIT Range: 201-210	
Convert to smaller units (c, pt, qt, & gal)	4.MD.A.1
Convert to smaller units (g and kg)	4.MD.A.1
Convert to smaller units (in, ft, yd, & mi)	4.MD.A.1
Convert to smaller units (mL and L)	4.MD.A.1
Convert to smaller units (mm, cm, m, & km)	4.MD.A.1
Convert to smaller units (oz and lb)	4.MD.A.1
Convert to smaller units (sec, min, & hr)	4.MD.A.1
Convert money word problems	4.MD.A.2
Metric conversions word problems	4.MD.A.2
US customary conversion word problems	4.MD.A.2
RIT Range: 211-217	
Convert units (metrics)	5.MD.A.1
Convert units (US customary)	5.MD.A.1
Convert units word problems (metric)	5.MD.A.1
Convert units word problems (US customary)	5.MD.A.1
RIT Range: 218-221	
Basic ratios	6.RP.A.1
Create double number lines	6.RP.A.1 | 6.RP.A.3
Equivalent ratios	6.RP.A.1 | 6.RP.A.3
Ratios with double number lines	6.RP.A.1 | 6.RP.A.3
Ratios with tape diagrams	6.RP.A.1 | 6.RP.A.3
Relate double numbers lines and ratio tables	6.RP.A.1 | 6.RP.A.3
Unit rates	6.RP.A.2
Comparing rates	6.RP.A.2 | 6.RP.A.3
Rate problems	6.RP.A.2 | 6.RP.A.3

The Real and Complex Number Systems

Ratios and Proportional Relationships   Standards Alignment

RIT Range: 218-221

Convert decimals to percents	6.RP.A.3
Convert percents to decimals	6.RP.A.3
Convert percents to fractions	6.RP.A.3
Equivalent ratio word problems	6.RP.A.3
Equivalent ratio word problems (basic)	6.RP.A.3
Equivalent ratios in the real world	6.RP.A.3
Finding percents	6.RP.A.3
Intro to percents	6.RP.A.3
Part-part-whole ratios	6.RP.A.3
Percent word problems	6.RP.A.3
Percents from fraction models	6.RP.A.3
Percents from tape diagrams	6.RP.A.3
Ratio tables	6.RP.A.3
Ratios and units of measurement	6.RP.A.3
Ratios on coordinate plane	6.RP.A.3
Relate fractions, decimals, and percents	6.RP.A.3
Understand equivalent ratios in the real world	6.RP.A.3
Equivalent representations of percent problems	6.RP.A.3 | 7.RP.A.3
Proportion word problems	6.RP.A.3 | 7.RP.A.3

RIT Range: 222-226

Equivalent representations of percent problems	6.RP.A.3 | 7.RP.A.3
Proportion word problems	6.RP.A.3 | 7.RP.A.3
Rates with fractions	7.RP.A.1
Compare constants of proportionality	7.RP.A.2
Constant of proportionality from equations	7.RP.A.2

The Real and Complex Number Systems

Ratios and Proportional Relationships   Standards Alignment

RIT Range: 222-226

Constant of proportionality from graphs	7.RP.A.2
Constant of proportionality from tables	7.RP.A.2
Constant of proportionality from tables (with equations)	7.RP.A.2
Identify proportional relationships	7.RP.A.2
Identify proportional relationships from graphs	7.RP.A.2
Interpret constant of proportionality in graphs	7.RP.A.2
Interpret constants of proportionality	7.RP.A.2
Interpreting graphs of proportional relationships	7.RP.A.2
Proportional relationships	7.RP.A.2
Solving proportions	7.RP.A.2
Writing proportional equations	7.RP.A.2
Writing proportional equations from tables	7.RP.A.2
Writing proportions	7.RP.A.2
Discount, markup, and commission word problems	7.RP.A.3
Equivalent expressions with percent problems	7.RP.A.3
Percent problems	7.RP.A.3
Tax and tip word problems	7.RP.A.3

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 189-200

Add using groups of 10 and 100	3.NBT.A.2
Add within 1000	3.NBT.A.2
Break apart 3-digit addition problems	3.NBT.A.2
Estimate to add and subtract multi-digit whole numbers	3.NBT.A.2
Subtract within 1000	3.NBT.A.2
Multiply by tens	3.NBT.A.3
Multiply by tens word problems	3.NBT.A.3
Meaning of multiplication	3.OA.A.1
Divide with visuals	3.OA.A.2
Meaning of division	3.OA.A.2
Multiplication and division word problems (within 100)	3.OA.A.3
Relate division to multiplication word problems	3.OA.A.3
Associative property of multiplication	3.OA.B.5
Relate division to multiplication	3.OA.B.6
Basic division	3.OA.C.7
Basic multiplication	3.OA.C.7
Divide by 1	3.OA.C.7
Divide by 10	3.OA.C.7
Divide by 2	3.OA.C.7
Divide by 3	3.OA.C.7
Divide by 4	3.OA.C.7
Divide by 5	3.OA.C.7
Divide by 6	3.OA.C.7
Divide by 7	3.OA.C.7
Divide by 8	3.OA.C.7
Divide by 9	3.OA.C.7

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 189-200

Find missing divisors and dividends (1-digit division)	3.OA.C.7
Multiply by 0 or 1	3.OA.C.7
Multiply by 2	3.OA.C.7
Multiply by 3	3.OA.C.7
Multiply by 4	3.OA.C.7
Multiply by 5	3.OA.C.7
Multiply by 6	3.OA.C.7
Multiply by 7	3.OA.C.7
Multiply by 8	3.OA.C.7
Multiply by 9	3.OA.C.7
Relate repeated addition to multiplication	3.OA.C.7
Whole numbers on the number line	3.OA.C.7
2-step estimation word problems	3.OA.D.8
2-step word problems	3.OA.D.8

RIT Range: 201-210

Telling time word problems	4.MD.A.2
Multi-digit addition	4.NBT.B.4
Multi-digit subtraction	4.NBT.B.4
Multiply 1-digit numbers by 10, 100, and 1000	4.NBT.B.5
Multiply 1-digit numbers by a multiple of 10, 100, and 1000	4.NBT.B.5
Multiply 2-, 3-, and 4-digits by 1-digit with area models	4.NBT.B.5
Multiply 2-digit numbers	4.NBT.B.5
Multiply 2-digit numbers with area models	4.NBT.B.5
Multiply using place value	4.NBT.B.5
Multiply with regrouping	4.NBT.B.5

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 201-210

Multiply without regrouping	4.NBT.B.5
Multiplying 10s	4.NBT.B.5
Cancel zeros when dividing	4.NBT.B.6
Divide by 1-digit numbers (no remainders)	4.NBT.B.6
Divide by 1-digit numbers (visual models)	4.NBT.B.6
Divide using place value	4.NBT.B.6
Divide with remainders	4.NBT.B.6
Divide with remainders (basic)	4.NBT.B.6
Intro to remainders	4.NBT.B.6
Quotients that are multiples of 10	4.NBT.B.6
Zeros in the dividend (no remainders)	4.NBT.B.6
Zeros in the quotient (no remainders)	4.NBT.B.6
Add and subtract fractions word problems (same denominator)	4.NF.B.3
Add and subtract mixed numbers (no regrouping)	4.NF.B.3
Add and subtract mixed numbers (with regrouping)	4.NF.B.3
Add and subtract mixed numbers word problems (like denominators)	4.NF.B.3
Add fractions with common denominators	4.NF.B.3
Decompose fractions	4.NF.B.3
Subtract fractions with common denominators	4.NF.B.3
Equivalent unit fraction and whole number multiplication expressions	4.NF.B.4
Multiply fractions and whole numbers intuition	4.NF.B.4
Multiply unit fractions and whole numbers	4.NF.B.4
Multiply fractions and whole numbers	4.NF.B.4 | 5.NF.B.4
Interpret multiplying fraction and whole number word problems	4.NF.B.4 | 5.NF.B.6
Multiply fractions and whole numbers word problems	4.NF.B.4 | 5.NF.B.6
Add fractions (denominators 10 & 100)	4.NF.C.5

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 201-210

Equivalent expressions with common denominators (denominators 10 & 100)	4.NF.C.5
Equivalent fractions (denominators 10 & 100)	4.NF.C.5
Equivalent fractions with fraction models (denominators 10 & 100)	4.NF.C.5
Decimals in words	4.NF.C.6
Decimals on the number line: hundredths 0-0.1	4.NF.C.6
Decimals on the number line: tenths 0-1	4.NF.C.6
Place value for decimals greater than 1	4.NF.C.6
Rewrite decimals as fractions	4.NF.C.6
Rewrite fractions as decimals (denominators of 10 & 100)	4.NF.C.6
Write decimal numbers shown in grids	4.NF.C.6
Write number as a fraction and decimal	4.NF.C.6
Compare with multiplication	4.OA.A.1
Compare with multiplication word problems	4.OA.A.1
Multiplication and division word problems	4.OA.A.2
Multi-step estimation word problems	4.OA.A.3
Multi-step word problems with whole numbers	4.OA.A.3
Factor pairs	4.OA.B.4
Identify composite numbers	4.OA.B.4
Identify factors and multiples	4.OA.B.4
Identify prime numbers	4.OA.B.4

RIT Range: 211-217

Multiply fractions and whole numbers	4.NF.B.4	5.NF.B.4
Interpret multiplying fraction and whole number word problems	4.NF.B.4	5.NF.B.6
Multiply fractions and whole numbers word problems	4.NF.B.4	5.NF.B.6
Multiply and divide by powers of 10	5.NBT.A.2

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 211-217

Multiply and divide decimals by 10	5.NBT.A.2
Multiply and divide decimals by 10, 100, and 1000	5.NBT.A.2
Multiply and divide whole numbers by 10, 100, and 1000	5.NBT.A.2
Estimate multi-digit multiplication problems	5.NBT.B.5
Multi-digit multiplication	5.NBT.B.5
Multiply by taking out factors of 10	5.NBT.B.5
Basic multi-digit division	5.NBT.B.6
Divide by taking out factors of 10	5.NBT.B.6
Estimate multi-digit division problems	5.NBT.B.6
Add decimals like 0.7+0.5	5.NBT.B.7
Add decimals like 0.76+0.21	5.NBT.B.7
Add decimals like 4+5.7	5.NBT.B.7
Add decimals like 40.1+7.6	5.NBT.B.7
Add decimals like 47.75+11.98	5.NBT.B.7
Add decimals like 5.53+6.1	5.NBT.B.7
Add decimals visually	5.NBT.B.7
Divide decimals and whole numbers by 0.1 or 0.01	5.NBT.B.7
Divide decimals like 0.72÷0.08	5.NBT.B.7
Divide decimals like 1.32÷0.12	5.NBT.B.7
Divide decimals like 1.86÷2	5.NBT.B.7
Divide decimals like 16.8÷40 by factoring out a 10	5.NBT.B.7
Divide decimals visually	5.NBT.B.7
Divide whole numbers like 63÷12 to get a decimal	5.NBT.B.7
Divide whole numbers like 7÷5 to get a decimal	5.NBT.B.7
Divide whole numbers like 80÷200 to get a decimal	5.NBT.B.7
Estimating with adding decimals	5.NBT.B.7

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 211-217

Estimating with dividing decimals	5.NBT.B.7
Estimating with multiplying decimals	5.NBT.B.7
Estimating with subtracting decimals	5.NBT.B.7
Multiply decimals like 0.56x4	5.NBT.B.7
Multiply decimals like 0.6x0.4	5.NBT.B.7
Multiply decimals like 1.7x0.12	5.NBT.B.7
Multiply decimals visually	5.NBT.B.7
Subtract decimals like 0.6-0.43	5.NBT.B.7
Subtract decimals like 0.75-0.56	5.NBT.B.7
Subtract decimals like 0.9-0.7	5.NBT.B.7
Subtract decimals like 1.6-0.3	5.NBT.B.7
Subtract decimals like 15-7.45	5.NBT.B.7
Subtract decimals like 56.8-17.9	5.NBT.B.7
Subtract decimals like 67.89-6	5.NBT.B.7
Subtract decimals like 78.4-3	5.NBT.B.7
Subtract decimals visually	5.NBT.B.7
Multiplying decimals like 4x0.6 (standard algorithm)	5.NBT.B.7	6.NS.B.3
Add and subtract fractions challenge	5.NF.A.1
Add and subtract mixed numbers with unlike denominators (no regrouping)	5.NF.A.1
Add and subtract mixed numbers with unlike denominators (regrouping)	5.NF.A.1
Add fractions with unlike denominators	5.NF.A.1
Equivalent expressions with common denominators	5.NF.A.1
Subtracting fractions with unlike denominators	5.NF.A.1
Visually add and subtract fractions	5.NF.A.1
Add and subtract fractions word problems	5.NF.A.2

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 211-217

Fractions as division word problems	5.NF.B.3
Area of rectangles with fraction side lengths	5.NF.B.4
Multiply fractions and whole numbers visually	5.NF.B.4
Multiply mixed numbers	5.NF.B.4
Multiplying fractions	5.NF.B.4
Multiplying fractions with visuals	5.NF.B.4
Fraction multiplication as scaling	5.NF.B.5
Multiply fractions word problems	5.NF.B.6
Dividing unit fractions by whole numbers	5.NF.B.7
Dividing unit fractions by whole numbers visually	5.NF.B.7
Dividing whole numbers by unit fractions	5.NF.B.7
Dividing whole numbers by unit fractions visually	5.NF.B.7

RIT Range: 218-221

Multiplying decimals like 4x0.6 (standard algorithm)	5.NBT.B.7 | 6.NS.B.3
Divide mixed numbers	6.NS.A.1
Divide whole numbers by fractions	6.NS.A.1
Dividing fractions	6.NS.A.1
Dividing fractions word problems	6.NS.A.1
Division by 2-digits	6.NS.B.2
Multi-digit division	6.NS.B.2
Adding & subtracting decimals word problems	6.NS.B.3
Adding decimals: thousandths	6.NS.B.3
Dividing decimals: hundredths	6.NS.B.3
Dividing decimals: thousandths	6.NS.B.3
Dividing whole numbers like 56÷35 to get a decimal	6.NS.B.3

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 218-221

Multiplying decimals like 0.847x3.54 (standard algorithm)	6.NS.B.3
Multiplying decimals like 2.45x3.6 (standard algorithm)	6.NS.B.3
Subtracting decimals: thousandths	6.NS.B.3
GCF & LCM word problems	6.NS.B.4
Greatest common factor	6.NS.B.4
Least common multiple	6.NS.B.4

RIT Range: 222-226

Absolute value to find distance	7.NS.A.1
Absolute value to find distance challenge	7.NS.A.1
Adding & subtracting negative fractions	7.NS.A.1
Adding & subtracting negative numbers	7.NS.A.1
Adding & subtracting rational numbers	7.NS.A.1
Adding negative numbers	7.NS.A.1
Adding negative numbers on the number line	7.NS.A.1
Addition & subtraction: find the missing value	7.NS.A.1
Equivalent expressions with negative numbers	7.NS.A.1
Interpret negative number addition and subtraction expressions	7.NS.A.1
Missing numbers on the number line	7.NS.A.1
Number equations & number lines	7.NS.A.1
Ordering negative number expressions	7.NS.A.1
Signs of sums	7.NS.A.1
Substitution with negative numbers	7.NS.A.1
Subtracting negative numbers	7.NS.A.1
Understand subtraction as adding the opposite	7.NS.A.1
Order of operations with negative numbers	7.NS.A.1	7.NS.A.2

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 222-226

Interpreting negative number statements	7.NS.A.1 | 7.NS.A.3
Negative number addition and subtraction: word problems	7.NS.A.1 | 7.NS.A.3
Converting fractions to decimals	7.NS.A.2
Dividing by zero	7.NS.A.2
Dividing mixed numbers with negatives	7.NS.A.2
Dividing positive and negative fractions	7.NS.A.2
Equivalent expressions with negative numbers (multiplication and division)	7.NS.A.2
Exponents with integer bases	7.NS.A.2
Multiplying & dividing negative numbers word problems	7.NS.A.2
Multiplying negative numbers	7.NS.A.2
Multiplying positive and negative fractions	7.NS.A.2
Negative signs in fractions	7.NS.A.2
Order rational numbers	7.NS.A.2
Signs of expressions	7.NS.A.2
Signs of expressions challenge	7.NS.A.2
Simplify complex fractions	7.NS.A.2 | 7.NS.A.3

RIT Range: 229-242

Interpret units in formulas	HSN-Q.A.1
Multiple units word problems	HSN-Q.A.1

RIT Range: 243-252

Classify complex numbers	HSN-CN.A.1
Parts of complex numbers	HSN-CN.A.1
Simplify roots of negative numbers	HSN-CN.A.1
Add & subtract complex numbers	HSN-CN.A.2
Multiply complex numbers	HSN-CN.A.2

The Real and Complex Number Systems

Perform Operations   Standards Alignment

RIT Range: 243-252

Multiply complex numbers (basic)   HSN-CN.A.2

Powers of the imaginary unit   HSN-CN.A.2

The Real and Complex Number Systems

Extend and Use Properties   Standards Alignment

RIT Range: 189-200

Identify numerators and denominators	3.NF.A.1
Identify unit fractions	3.NF.A.1
Recognize fractions	3.NF.A.1
Recognize fractions greater than 1	3.NF.A.1
Compare fractions of different wholes	3.NF.A.3
Compare fractions with the same denominator	3.NF.A.3
Compare fractions with the same numerator	3.NF.A.3
Compare fractions with the same numerator or denominator	3.NF.A.3
Equivalent fractions on the number line	3.NF.A.3
Relate fractions to 1	3.NF.A.3
Write fractions as whole numbers	3.NF.A.3

RIT Range: 201-210

Equivalent fractions	4.NF.A.1
Equivalent fractions (fraction models)	4.NF.A.1
Common denominators	4.NF.A.2
Compare fractions and mixed numbers	4.NF.A.2
Compare fractions with different numerators and denominators	4.NF.A.2
Equivalent fractions and different wholes	4.NF.A.2
Order fractions	4.NF.A.2
Visually compare fractions with unlike denominators	4.NF.A.2
Rewrite mixed numbers and improper fractions	4.NF.B.3
Decompose fractions with denominators of 100	4.NF.C.5
Decimals on the number line: hundredths	4.NF.C.6
Decimals on the number line: tenths	4.NF.C.6
Compare decimals (tenths and hundredths)	4.NF.C.7

The Real and Complex Number Systems

Extend and Use Properties   Standards Alignment

RIT Range: 201-210

Compare decimals and fractions   4.NF.C.7

Compare decimals visually   4.NF.C.7

RIT Range: 211-217

Graph points   5.G.A.1

Identify coordinates   5.G.A.1

Identify points   5.G.A.1

Compare decimals challenge   5.NBT.A.3

Compare decimals through thousandths   5.NBT.A.3

Compare decimals word problems   5.NBT.A.3

Order decimals   5.NBT.A.3

Fractions as division   5.NF.B.3

RIT Range: 218-221

Interpreting negative numbers   6.NS.C.5

Missing numbers on the number line   6.NS.C.6

Negative decimals on the number line   6.NS.C.6

Negative numbers on the number line   6.NS.C.6

Negative symbol as opposite   6.NS.C.6

Number opposites   6.NS.C.6

Number opposites challenge   6.NS.C.6

Points on the coordinate plane   6.NS.C.6

Quadrants on the coordinate plane   6.NS.C.6

Rational numbers on the number line   6.NS.C.6

Coordinate plane problems in all four quadrants   6.NS.C.6 | 6.NS.C.8

Distance between points: vertical or horizontal   6.NS.C.6 | 6.NS.C.8

Compare and order absolute values   6.NS.C.7

The Real and Complex Number Systems

Extend and Use Properties   Standards Alignment

RIT Range: 218-221

Compare rational numbers	6.NS.C.7
Comparing absolute values challenge	6.NS.C.7
Finding absolute values	6.NS.C.7
Interpreting absolute value	6.NS.C.7
Negative numbers, variables, number line	6.NS.C.7
Ordering negative numbers	6.NS.C.7
Ordering small negative numbers	6.NS.C.7
Writing numerical inequalities	6.NS.C.7

RIT Range: 227-228

Classify numbers	8.NS.A.1
Classify numbers: rational & irrational	8.NS.A.1
Converting multi-digit repeating decimals to fractions	8.NS.A.1
Converting repeating decimals to fractions	8.NS.A.1
Writing fractions as repeating decimals	8.NS.A.1
Approximating square roots (1)	8.NS.A.2
Approximating square roots (2)	8.NS.A.2
Comparing irrational numbers	8.NS.A.2
Comparing irrational numbers with a calculator	8.NS.A.2

RIT Range: 229-242

4th & 5th roots	HSN-RN.A.2
Evaluate radical expressions challenge	HSN-RN.A.2
Fractional exponents	HSN-RN.A.2
Properties of exponents (rational exponents)	HSN-RN.A.2
Properties of exponents challenge (rational exponents)	HSN-RN.A.2
Rational exponents challenge	HSN-RN.A.2

The Real and Complex Number Systems

Extend and Use Properties   Standards Alignment

RIT Range: 229-242

Geometry

Geometric Measurement and Relationships   Standards Alignment

RIT Range: 189-200

Categorize quadrilaterals   3.G.A.1

Identify quadrilaterals   3.G.A.1 | 5.G.B.4

Understanding area   3.MD.C.5

Create rectangles with a given area   3.MD.C.6

Find area with partial unit squares   3.MD.C.6

Area of rectangles   3.MD.C.7

Compare areas by multiplying   3.MD.C.7

Decompose figures to find area 1   3.MD.C.7

Decompose figures to find area 2   3.MD.C.7

Find a missing side length when given area   3.MD.C.7

Measure to find area   3.MD.C.7

Transition from unit squares to area formula   3.MD.C.7

Compare area and perimeter   3.MD.D.8

Find a missing side length when given perimeter   3.MD.D.8

Find perimeter by counting unit squares   3.MD.D.8

Find perimeter when given side lengths   3.MD.D.8

Measure to find perimeter   3.MD.D.8

Perimeter word problems   3.MD.D.8

RIT Range: 201-210

Angle types   4.G.A.1

Draw parallel and perpendicular lines   4.G.A.1

Draw rays, lines, & line segments   4.G.A.1

Draw right, acute, and obtuse angles   4.G.A.1

Identify parallel and perpendicular lines   4.G.A.1

Identify rays, lines, & line segments   4.G.A.1

Geometry

Geometric Measurement and Relationships   Standards Alignment

RIT Range: 201-210

Recognize angles   4.G.A.1

Classify shapes by line and angle types   4.G.A.2

Identify triangles by angles   4.G.A.2

Identify triangles by side lengths   4.G.A.2

Quadrilateral types (1)   4.G.A.2 | 5.G.B.4

Estimate mass (grams and kilograms)   4.MD.A.1

Estimate volume (milliliters and liters)   4.MD.A.1

Estimating length (in, ft, yd, and mi)   4.MD.A.1

Estimating length (mm, cm, m, km)   4.MD.A.1

Estimating mass (ounces and pounds)   4.MD.A.1

Estimating time (seconds, minutes, and hours)   4.MD.A.1

Estimating volume (cups, pints, quarts, and gallons)   4.MD.A.1

Time conversion word problems   4.MD.A.2

Time differences   4.MD.A.2

Area & perimeter of rectangles word problems   4.MD.A.3

Area of squares and rectangles   4.MD.A.3

Angle basics   4.MD.C.5

Benchmark angles   4.MD.C.5

Name angles   4.MD.C.5

Angles in circles   4.MD.C.5 | 4.MD.C.6 | 5.MD.C.5

Draw angles   4.MD.C.6

Measure angles   4.MD.C.6

Decompose angles   4.MD.C.7

RIT Range: 211-217

Identify quadrilaterals   3.G.A.1 | 5.G.B.4

Geometry
Geometric Measurement and Relationships

Standards Alignment

RIT Range: 211-217

Quadrilateral types (1)	4.G.A.2 | 5.G.B.4
Angles in circles	4.MD.C.5 | 4.MD.C.6 | 5.MD.C.5
Distance between points in first quadrant	5.G.A.2
Graph points	5.G.A.2
Identify coordinates	5.G.A.2
Identify points	5.G.A.2
Shapes on the coordinate plane	5.G.A.2
Properties of shapes	5.G.B.3 | 5.G.B.4
Quadrilateral types (2)	5.G.B.4
Volume with unit cubes 1	5.MD.C.4
Compare volumes with unit cubes	5.MD.C.4 | 5.MD.C.5
Decompose figures to find volume	5.MD.C.5
Decompose figures to find volume (unit cubes)	5.MD.C.5
Volume 1	5.MD.C.5
Volume word problems	5.MD.C.5

RIT Range: 218-221

Area challenge	6.G.A.1
Area of composite shapes	6.G.A.1
Area of parallelograms	6.G.A.1
Area of right triangles	6.G.A.1
Area of trapezoids	6.G.A.1
Area of triangles	6.G.A.1
Find base and height on a triangle	6.G.A.1
Find missing length when given area of a parallelogram	6.G.A.1
Find missing length when given area of a triangle	6.G.A.1

Geometry

Geometric Measurement and Relationships   Standards Alignment

RIT Range: 218-221

Volume by multiplying area of base times height	6.G.A.2
Volume with cubes with fraction lengths	6.G.A.2
Volume with fractions	6.G.A.2
Volume word problems: fractions & decimals	6.G.A.2
Area and perimeter on the coordinate plane	6.G.A.3
Drawing polygons with coordinates	6.G.A.3
Quadrilateral problems on the coordinate plane	6.G.A.3
Find surface area by adding areas of faces	6.G.A.4
Nets of polyhedra	6.G.A.4
Surface area	6.G.A.4
Surface area using nets	6.G.A.4
Surface area word problems	6.G.A.4

RIT Range: 222-226

Construct scale drawings	7.G.A.1
Corresponding sides and points	7.G.A.1
Explore scale copies	7.G.A.1
Identify scale copies	7.G.A.1
Identify scale factor in scale drawings	7.G.A.1
Interpret scale factor in scale drawings	7.G.A.1
Relate scale drawings to area	7.G.A.1
Scale copies	7.G.A.1
Scale drawings	7.G.A.1
Constructing triangles	7.G.A.2
Triangle side length rules	7.G.A.2
Cross sections of 3D objects (basic)	7.G.A.3	HSG-GMD.B.4

Geometry

Geometric Measurement and Relationships   Standards Alignment

RIT Range: 222-226

Area and circumference of circles challenge	7.G.B.4
Area of a circle	7.G.B.4
Area of parts of circles	7.G.B.4
Circumference and rotations	7.G.B.4
Circumference of a circle	7.G.B.4
Circumference of parts of circles	7.G.B.4
Radius and diameter	7.G.B.4
Complementary and supplementary angles (no visual)	7.G.B.5
Complementary and supplementary angles (visual)	7.G.B.5
Create equations to solve for missing angles	7.G.B.5
Finding angle measures between intersecting lines	7.G.B.5
Finding missing angles	7.G.B.5
Identifying supplementary, complementary, and vertical angles	7.G.B.5
Unknown angle problems (with algebra)	7.G.B.5
Vertical angles	7.G.B.5
Shaded areas	7.G.B.6
Volume and surface area word problems	7.G.B.6

RIT Range: 227-228

Volume of cones	8.G.C.9
Volume of cylinders	8.G.C.9
Volume of cylinders, spheres, and cones word problems	8.G.C.9
Volume of spheres	8.G.C.9
Volume and surface area of cylinders	8.G.C.9 | HSG-GMD.A.3
Solid geometry word problems	8.G.C.9 | HSG-GMD.A.3 | HSG-MG.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 229-252

Cross sections of 3D objects (basic)	7.G.A.3 | HSG-GMD.B.4
Volume and surface area of cylinders	8.G.C.9 | HSG-GMD.A.3
Solid geometry word problems	8.G.C.9 | HSG-GMD.A.3 | HSG-MG.A.1
Inscribed angles	HSG-C.A.2
Inscribed shapes	HSG-C.A.2
Tangents of circles problems	HSG-C.A.2
Inscribed quadrilaterals	HSG-C.A.3
Arc length (1)	HSG-C.B.5
Arc length (2)	HSG-C.B.5
Arc measure	HSG-C.B.5
Arc measure with equations	HSG-C.B.5
Area of a sector	HSG-C.B.5
Radians & arc length	HSG-C.B.5
Radians & degrees	HSG-C.B.5
Density word problems	HSG-GMD.A.3 | HSG-MG.A.2
Cross sections of 3D objects	HSG-GMD.B.4
Rotate 2D shapes in 3D	HSG-GMD.B.4
Features of a circle from its expanded equation	HSG-GPE.A.1
Features of a circle from its graph	HSG-GPE.A.1
Features of a circle from its standard equation	HSG-GPE.A.1
Graph a circle from its expanded equation	HSG-GPE.A.1
Graph a circle from its features	HSG-GPE.A.1
Graph a circle from its standard equation	HSG-GPE.A.1
Write standard equation of a circle	HSG-GPE.A.1
Equation of a parabola from focus & directrix	HSG-GPE.A.2
Points inside/outside/on a circle	HSG-GPE.B.4

Geometry

Geometric Measurement and Relationships   Standards Alignment

RIT Range: 229-252

Parallel & perpendicular lines from equation	HSG-GPE.B.5
Parallel & perpendicular lines from graph	HSG-GPE.B.5
Write equations of parallel & perpendicular lines	HSG-GPE.B.5
Divide line segments	HSG-GPE.B.6
Midpoint formula	HSG-GPE.B.6
Area & perimeter on the coordinate plane	HSG-GPE.B.7
Coordinate plane word problems: polygons	HSG-GPE.B.7

Geometry

Congruence, Similarity, Right Triangles, & Trig   Standards Alignment

RIT Range: 201-210

Draw lines of symmetry and symmetrical figures	4.G.A.3
Identify lines of symmetry	4.G.A.3
Identify symmetrical figures	4.G.A.3

RIT Range: 227-228

Rotate points (basic)	8.G.A.1
Find measures using rigid transformations	8.G.A.1 | 8.G.A.2 | HSG-CO.A.2 | HSG-CO.B.6
Rigid transformations: preserved properties	8.G.A.1 | 8.G.A.2 | HSG-CO.A.2 | HSG-CO.B.6
Mapping shapes	8.G.A.1 | 8.G.A.2 | HSG-CO.A.5
Determine rotations (basic)	8.G.A.1 | 8.G.A.3
Determine rotations	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Determine translations	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Determine reflections	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Reflect points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Reflect shapes	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Translate points (1)	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Translate points (2)	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Translate shapes	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Identify transformations	8.G.A.1 | HSG-CO.A.4 | HSG-CO.A.5
Congruence & transformations	8.G.A.2 | HSG-CO.B.6
Dilations and properties	8.G.A.3 | 8.G.A.4
Dilate triangles	8.G.A.3 | 8.G.A.4 | HSG-SRT.A.1 | HSG-SRT.A.2
Dilations: scale factor	8.G.A.3 | 8.G.A.4 | HSG-SRT.A.1 | HSG-SRT.A.2
Dilate points	8.G.A.3 | HSG-SRT.A.1
Similarity & transformations	8.G.A.4 | HSG-SRT.A.2

Geometry

Congruence, Similarity, Right Triangles, & Trig   Standards Alignment

RIT Range: 227-228

Angle relationships with parallel lines	8.G.A.5
Equation practice with angles	8.G.A.5
Find angles in triangles	8.G.A.5
Finding angle measures between intersecting lines	8.G.A.5
Finding angle measures using triangles	8.G.A.5
Find angles in isosceles triangles	8.G.A.5 | HSG-SRT.B.5
Use area of squares to visualize Pythagorean theorem	8.G.B.6
Pythagorean theorem challenge	8.G.B.7
Pythagorean theorem in 3D	8.G.B.7
Pythagorean theorem word problems	8.G.B.7
Right triangle side lengths	8.G.B.7
Use Pythagorean theorem to find area	8.G.B.7
Use Pythagorean theorem to find isosceles triangle side lengths	8.G.B.7 Use
Pythagorean theorem to find perimeter	8.G.B.7
Use Pythagorean theorem to find right triangle side lengths	8.G.B.7
Distance between two points	8.G.B.8

RIT Range: 229-252

Find measures using rigid transformations	8.G.A.1 | 8.G.A.2 | HSG-CO.A.2 | HSG-CO.B.6
Rigid transformations: preserved properties	8.G.A.1 | 8.G.A.2 | HSG-CO.A.2 | HSG-CO.B.6
Mapping shapes	8.G.A.1 | 8.G.A.2 | HSG-CO.A.5
Determine rotations	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Determine translations	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Determine reflections	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Reflect points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Reflect shapes	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5

Geometry

Congruence, Similarity, Right Triangles, & Trig   Standards Alignment

RIT Range: 229-252

Translate points (1)	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Translate points (2)	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Translate shapes	8.G.A.1 | 8.G.A.3 | HSG-CO.A.5
Identify transformations	8.G.A.1 | HSG-CO.A.4 | HSG-CO.A.5
Congruence & transformations	8.G.A.2 | HSG-CO.B.6
Dilate triangles	8.G.A.3 | 8.G.A.4 | HSG-SRT.A.1 | HSG-SRT.A.2
Dilations: scale factor	8.G.A.3 | 8.G.A.4 | HSG-SRT.A.1 | HSG-SRT.A.2
Dilate points	8.G.A.3 | HSG-SRT.A.1
Similarity & transformations	8.G.A.4 | HSG-SRT.A.2
Find angles in isosceles triangles	8.G.A.5 | HSG-SRT.B.5
Geometric definitions	HSG-CO.A.1
Sequences of transformations	HSG-CO.A.2
Defining transformations	HSG-CO.A.2 | HSG-CO.A.4
Determine reflections (advanced)	HSG-CO.A.2 | HSG-CO.A.5
Symmetry of 2D shapes	HSG-CO.A.3
Advanced reflections	HSG-CO.A.5
Rotate shapes	HSG-CO.A.5
Rotate shapes: center ≠ (0,0)	HSG-CO.A.5
Proofs with transformations	HSG-CO.C.9
Determine congruent triangles	HSG-SRT.B.5
Determine similar triangles: AA	HSG-SRT.B.5
Determine similar triangles: SSS	HSG-SRT.B.5
Find angles in congruent triangles	HSG-SRT.B.5
Solve similar triangles (advanced)	HSG-SRT.B.5
Solve similar triangles (basic)	HSG-SRT.B.5

Geometry

Congruence, Similarity, Right Triangles, & Trig   Standards Alignment

RIT Range: 229-252

Solve triangles: angle bisector theorem	HSG-SRT.B.5
Use similar & congruent triangles	HSG-SRT.B.5
Reciprocal trig ratios	HSG-SRT.C.6
Solve for a side in right triangles	HSG-SRT.C.6 | HSG-SRT.C.8
Trigonometric ratios in right triangles	HSG-SRT.C.6 | HSG-SRT.C.8
Right triangle word problems	HSG-SRT.C.8
Solve for an angle in right triangles	HSG-SRT.C.8
Special right triangles	HSG-SRT.C.8

Statistics and Probability

Interpreting Categorical and Quantitative Data   Standards Alignment

RIT Range: 189-200

Create bar graphs	3.MD.B.3
Create picture graphs (picture more than 1)	3.MD.B.3
Read bar graphs and solve 1-step problems	3.MD.B.3
Read bar graphs and solve 2 step problems	3.MD.B.3
Read picture graphs	3.MD.B.3
Read picture graphs (multi-step problems)	3.MD.B.3
Graph data on line plots	3.MD.B.4
Read line plots (data with fractions)	3.MD.B.4

RIT Range: 201-210

Interpret dot plots with fractions 1	4.MD.B.4

RIT Range: 211-217

Interpret dot plots with fraction operations	5.MD.B.2

RIT Range: 218-221

Statistical questions	6.SP.A.1
Clusters, gaps, peaks, & outliers	6.SP.A.2
Shape of distributions	6.SP.A.2
Reading box plots	6.SP.A.2 | 6.SP.B.4 | 6.SP.B.5
Estimate center using dot plots	6.SP.A.3 | 6.SP.B.4 | 6.SP.B.5
Reading dot plots & frequency tables	6.SP.A.3 | 6.SP.B.4 | 6.SP.B.5
Data set warm-up	6.SP.A.3 | 6.SP.B.5
Effects of shifting, adding, & removing a data point	6.SP.A.3 | 6.SP.B.5
Create histograms	6.SP.B.4
Creating box plots	6.SP.B.4
Creating dot plots	6.SP.B.4
Creating frequency tables	6.SP.B.4

Statistics and Probability

Interpreting Categorical and Quantitative Data   Standards Alignment

RIT Range: 218-221

Calculating the mean: data displays	6.SP.B.4 | 6.SP.B.5
Calculating the median: data displays	6.SP.B.4 | 6.SP.B.5
Comparing data displays	6.SP.B.4 | 6.SP.B.5
Estimate center using histograms	6.SP.B.4 | 6.SP.B.5
Read histograms	6.SP.B.4 | 6.SP.B.5
Calculating the mean	6.SP.B.5
Calculating the median	6.SP.B.5
Interpreting quartiles	6.SP.B.5
Interquartile range (IQR)	6.SP.B.5
Median & range puzzlers	6.SP.B.5
Missing value given the mean	6.SP.B.5

RIT Range: 222-226

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

RIT Range: 227-228

Constructing scatter plots	8.SP.A.1
Describing trends in scatter plots	8.SP.A.1
Making appropriate scatter plots	8.SP.A.1
Positive and negative linear associations from scatter plots	8.SP.A.1
Eyeballing the line of best fit	8.SP.A.2
Estimating equations of lines of best fit, and using them to make predictions	8.SP.A.3
Estimating slope of line of best fit	8.SP.A.3
Interpreting slope and y-intercept for linear models	8.SP.A.3
Create two-way frequency tables	8.SP.A.4
Create two-way relative frequency tables	8.SP.A.4
Interpreting two-way tables	8.SP.A.4

Statistics and Probability

Interpreting Categorical and Quantitative Data   Standards Alignment

RIT Range: 227-228

     Read two-way frequency tables   8.SP.A.4

     Reading two-way relative frequency tables   8.SP.A.4

RIT Range: 229-252

     Comparing data distributions   HSS-ID.A.1 | HSS-ID.A.2 | HSS-ID.A.3

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

     Empirical rule   HSS-ID.A.4

     Normal distribution: Area above or below a point   HSS-ID.A.4

     Normal distribution: Area between two points   HSS-ID.A.4

     Z-scores 1   HSS-ID.A.4

     Trends in categorical data   HSS-ID.B.5

     Fitting quadratic and exponential functions to scatter plots   HSS-ID.B.6

     Correlation coefficient intuition   HSS-ID.C.8

     Types of statistical studies   HSS-ID.C.9

Statistics and Probability

Using Sampling and Probability to Make Decisions   Standards Alignment

RIT Range: 222-226

Making inferences from random samples	7.SP.A.1 | 7.SP.A.2
Valid claims	7.SP.A.1 | 7.SP.A.2
Probability models	7.SP.C.5 | 7.SP.C.6 | 7.SP.C.7
Experimental probability	7.SP.C.6
Making predictions with probability	7.SP.C.6 | 7.SP.C.7
Simple probability	7.SP.C.7
Probabilities of compound events	7.SP.C.8
Sample spaces for compound events	7.SP.C.8
The counting principle	7.SP.C.8

RIT Range: 229-252

Basic set notation	HSS-CP.A.1
Subsets of sample spaces	HSS-CP.A.1
Dependent and independent events	HSS-CP.A.2 | HSS-CP.A.3
Trends in categorical data	HSS-CP.A.4 | HSS-CP.A.5 | HSS-CP.B.6
Dependent probability	HSS-CP.B.6
Adding probabilities	HSS-CP.B.7
Simple hypothesis testing	HSS-IC.A.2
Types of statistical studies	HSS-IC.B.3 | HSS-IC.B.6
Hypothesis testing in experiments	HSS-IC.B.5

NWEA® is a not-for-profit organization that supports students and educators worldwide by providing assessment solutions, insightful reports, professional learning offerings, and research services. Visit NWEA.org to find out how NWEA can partner with you to help all kids learn.

September 2020