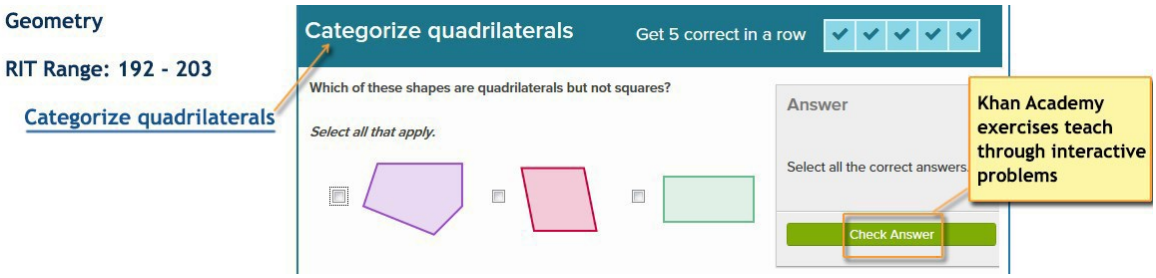
MAP Growth Mathematics to Khan Academy

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 2015 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

MAP Growth Mathematics
Khan Academy Practice Exercises Correlation

Common Core Math 6+

Operations and Algebraic Thinking

Expressions and Equations Pg. 4

Use Functions to Model Relationships Pg. 14

The Real and Complex Number Systems

Ratios and Proportional Relationships Pg. 22

Perform Operations Pg. 25

Extend and Use Properties Pg. 38

Geometry

Geometric Measurement and Relationships Pg. 43

Congruence, Similarity, Right Triangles, & Trig Pg. 51

Statistics and Probability

Interpreting Categorical and Quantitative Data Pg. 55

Using Sampling and Probability to Make Decisions Pg. 58

Operations and Algebraic Thinking

Expressions and Equations

	Standards Alignment
RIT Range: <160	
Making small numbers in different ways	K.OA.A.3
RIT Range: 161-178	
Relate addition and subtraction	1.OA.B.4
Equal sign	1.OA.D.7
Find missing number (add and subtract within 20)	1.OA.D.8
RIT Range: 179-191	
Add and subtract on the number line word problems	2.MD.B.6
RIT Range: 192-202	
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
RIT Range: 203-212	
Compare with multiplication	4.OA.A.1
Multi-step word problems with whole numbers	4.OA.A.3
Represent multi-step word problems using equations	4.OA.A.3
RIT Range: 213-219	
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

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 220-223

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
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
Combining like terms	6.EE.A.3
Combining like terms with distribution	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	6.EE.A.3
Testing solutions to inequalities	6.EE.B.5
Testing solutions to inequalities (basic)	6.EE.B.5
Identify and solve equations from visual models	6.EE.B.5 | 6.EE.B.7
Identify equations from visual models	6.EE.B.5 | 6.EE.B.7

Operations and Algebraic Thinking

Expressions and Equations

	Standards Alignment
RIT Range: 220-223	
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
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
Inequality from graph	6.EE.B.8
Plotting inequalities	6.EE.B.8
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: 224-227	
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
Equivalent expressions: negative numbers & distribution	7.EE.A.1
The distributive property with variables	7.EE.A.1
Interpreting linear expressions	7.EE.A.2
Rational number word problems	7.EE.B.3

Operations and Algebraic Thinking

Expressions and Equations

	Standards Alignment
RIT Range: 224-227	
Find the mistake: two-step equations	7.EE.B.4
One-step inequalities	7.EE.B.4
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
Two-step equations	7.EE.B.4 | HSA-REI.B.3
RIT Range: 228-231	
Divide powers	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
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

RIT Range: 228-231

	Standards Alignment
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
Equation practice with angle addition	8.EE.C.7
Equation practice with midpoints	8.EE.C.7
Equation practice with segment addition	8.EE.C.7
Equation practice with vertical angles	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
Equations with parentheses	8.EE.C.7 | HSA-REI.B.3
Equations with parentheses: decimals & fractions	8.EE.C.7 | HSA-REI.B.3
Equations with variables on both sides	8.EE.C.7 | HSA-REI.B.3
Equations with variables on both sides: decimals & fractions	8.EE.C.7 | HSA-REI.B.3
Age word problems	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems	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

Operations and Algebraic Thinking

Expressions and Equations

	Standards Alignment
RIT Range: 228-231	
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
RIT Range: 232-245	
Two-step equations	7.EE.B.4 | HSA-REI.B.3
Equations with parentheses	8.EE.C.7 | HSA-REI.B.3
Equations with parentheses: decimals & fractions	8.EE.C.7 | HSA-REI.B.3
Equations with variables on both sides	8.EE.C.7 | HSA-REI.B.3
Equations with variables on both sides: decimals & fractions	8.EE.C.7 | HSA-REI.B.3
Age word problems	8.EE.C.8 | HSA-CED.A.2 | HSA-CED.A.3 | HSA-REI.C.6
Systems of equations word problems	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

Operations and Algebraic Thinking

Expressions and Equations

RIT Range: 232-245

	Standards Alignment
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
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

Operations and Algebraic Thinking

Expressions and Equations

RIT Range: 232-245

	Standards Alignment
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
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

Operations and Algebraic Thinking

Expressions and Equations

	Standards Alignment
RIT Range: 232-245	
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
Rewrite exponential expressions	HSA-SSE.B.3
Slope from equation	HSA-SSE.B.3
RIT Range: 246-255	
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

Operations and Algebraic Thinking

Expressions and Equations

RIT Range: 246-255

	Standards Alignment
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
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: 192-202	
Math patterns 1	3.OA.D.9
Patterns with even and odd	3.OA.D.9
RIT Range: 203-212	
Math patterns 2	4.OA.C.5
RIT Range: 213-219	
Coordinate plane word problems (quadrant 1 - challenging)	5.G.A.2
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: 228-231	
Complete solutions to 2-variable equations	8.F.A.1
Linear equations in any form	8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2
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
Function rules from equations	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: 228-231	
Function inputs & outputs: equation	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Domain and range from graph	8.F.A.1 | HSF-IF.A.1 | HSF-IF.B.5
Evaluate functions	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
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
Compare linear functions	8.F.A.2 | HSF-IF.C.9
Linear & nonlinear functions	8.F.A.3
Intercepts from an equation	8.F.A.3 | HSF-IF.C.7
Ordered pair solutions to linear equations	8.F.B.4
Slope from two points	8.F.B.4 | HSF-IF.C.7
Slope from equation	8.F.B.4 | HSF-IF.C.7 | HSF-IF.C.8
Slope-intercept intro	8.F.B.4 | HSF-IF.C.7 | HSF-LE.A.2
Slope from graph	8.F.B.4 | HSF-LE.A.2
Interpreting graphs of functions	8.F.B.5
Increasing and decreasing intervals	8.F.B.5 | HSF-IF.C.7
Relative maxima and minima	8.F.B.5 | HSF-IF.C.7
RIT Range: 232-245	
Linear equations in any form	8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2
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

Operations and Algebraic Thinking

Use Functions to Model Relationships

RIT Range: 232-245

	Standards Alignment
Function rules from equations	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
Function inputs & outputs: equation	8.F.A.1 | HSF-IF.A.1 | HSF-IF.A.2
Domain and range from graph	8.F.A.1 | HSF-IF.A.1 | HSF-IF.B.5
Evaluate functions	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
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
Compare linear functions	8.F.A.2 | HSF-IF.C.9
Intercepts from an equation	8.F.A.3 | HSF-IF.C.7
Slope from two points	8.F.B.4 | HSF-IF.C.7
Slope from equation	8.F.B.4 | HSF-IF.C.7 | HSF-IF.C.8
Slope-intercept intro	8.F.B.4 | HSF-IF.C.7 | HSF-LE.A.2
Slope from graph	8.F.B.4 | HSF-LE.A.2
Increasing and decreasing intervals	8.F.B.5 | HSF-IF.C.7
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	HSF-BF.A.1 | HSF-LE.A.2
Converting recursive & explicit forms of arithmetic sequences	HSF-BF.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships

RIT Range: 232-245

	Standards Alignment
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
Evaluate functions from their graph	HSF-IF.A.1 | HSF-IF.A.2
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 problem	HSF-IF.B.4 | HSF-IF.C.9 | HSF-LE.B.5
Graph parabolas in all forms	HSF-IF.C.7
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
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

Operations and Algebraic Thinking

Use Functions to Model Relationships

RIT Range: 232-245

	Standards Alignment
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
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

Operations and Algebraic Thinking

Use Functions to Model Relationships

	Standards Alignment
RIT Range: 232-245	
Linear equations word problems	HSF-LE.B.5
RIT Range: 246-255	
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
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

Operations and Algebraic Thinking

Use Functions to Model Relationships

RIT Range: 246-255

	Standards Alignment
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
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

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: >256

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: 203-212	
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: 213-219	
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: 220-223	
Basic ratios	6.RP.A.1
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
Unit rates	6.RP.A.2
Comparing rates	6.RP.A.2 | 6.RP.A.3
Converting decimals to percents	6.RP.A.3
Converting percents & fractions	6.RP.A.3
Converting percents to decimals	6.RP.A.3

The Real and Complex Number Systems

Ratios and Proportional Relationships

	Standards Alignment
RIT Range: 220-223	
Equivalent ratio word problems	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
Rate problems	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	6.RP.A.3
Proportion word problems	6.RP.A.3 | 7.RP.A.3
RIT Range: 224-227	
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
Constant of proportionality from graphs	7.RP.A.2
Constant of proportionality from tables	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
Proportional relationships: graphs	7.RP.A.2
Solving proportions	7.RP.A.2

The Real and Complex Number Systems

Ratios and Proportional Relationships

Standards Alignment

RIT Range: 224-227

Writing proportional equations	7.RP.A.2
Writing proportions	7.RP.A.2
Discount, tax, markup, and commission word problems	7.RP.A.3
Equivalent representations of percent problems	7.RP.A.3
Percent problems	7.RP.A.3

The Real and Complex Number Systems

Perform Operations

	Standards Alignment
RIT Range: <160	
Count tens	K.CC.A.1
Numbers to 100	K.CC.A.1
Add within 10	K.OA.A.1
Subtract within 10	K.OA.A.1
Addition word problems within 10	K.OA.A.2
Subtraction word problems within 10	K.OA.A.2
RIT Range: 161-178	
Numbers to 120	1.NBT.A.1
Add 1s or 10s (no regrouping)	1.NBT.C.4
Add 2-digit numbers (no regrouping)	1.NBT.C.4
Break apart 2-digit addition problems	1.NBT.C.4
Regroup when adding 1-digit numbers	1.NBT.C.4
Add 1 or 10	1.NBT.C.4 | 1.NBT.C.5
Addition and subtraction word problems 1	1.OA.A.1
Addition and subtraction word problems 2	1.OA.A.1
Word problems with "more" and "fewer"	1.OA.A.1
Word problems with "more" and "fewer" 1	1.OA.A.1
Word problems with "more" and "fewer" 2	1.OA.A.1
Add 3 numbers	1.OA.A.2
Add within 20	1.OA.C.6
RIT Range: 179-191	
Count money (U.S.)	2.MD.C.8 | 2.NBT.A.2
Skip-count by 10s	2.NBT.A.2
Skip-count by 5s	2.NBT.A.2
Skip-counting by 100s	2.NBT.A.2

The Real and Complex Number Systems

Perform Operations

RIT Range: 179-191

	Standards Alignment
Subtract 1-digit numbers with regrouping	2.NBT.A.4
Add 2-digit numbers by making tens	2.NBT.B.5
Add 2-digit numbers by making tens 2	2.NBT.B.5
Add within 100	2.NBT.B.5
Subtract 1 or 10	2.NBT.B.5
Subtract 2-digit numbers (no regrouping)	2.NBT.B.5
Subtract within 100	2.NBT.B.5
Subtract within 20	2.NBT.B.5
Subtracting 1s or 10s (no regrouping)	2.NBT.B.5
Add 10s and 100s (no regrouping)	2.NBT.B.7
Add 2- and 3-digit numbers (no regrouping)	2.NBT.B.7
Add and subtract on a number line	2.NBT.B.7
Add and subtract using a number line	2.NBT.B.7
Select strategies for adding within 100	2.NBT.B.7
Subtract 10s and 100s (no regrouping)	2.NBT.B.7
Subtract 2- and 3-digit numbers (no regrouping)	2.NBT.B.7
Add using groups of 10 and 100	2.NBT.B.7 | 3.NBT.A.2
Break apart 3-digit addition problems	2.NBT.B.7 | 3.NBT.A.2
Estimate to add and subtract multi-digit whole numbers	2.NBT.B.7 | 3.NBT.A.2
Add and subtract within 100 word problems 1	2.OA.A.1
Add and subtract within 100 word problems 2	2.OA.A.1
Add and subtract within 100 word problems 3	2.OA.A.1
Challenging add and subtract word problems (within 100)	2.OA.A.1
Find the missing number (add and subtract within 100)	2.OA.A.1
Length word problems	2.OA.A.1
Repeated addition	2.OA.C.4

The Real and Complex Number Systems

Perform Operations

RIT Range: 192-202

	Standards Alignment
Add using groups of 10 and 100	2.NBT.B.7 | 3.NBT.A.2
Break apart 3-digit addition problems	2.NBT.B.7 | 3.NBT.A.2
Estimate to add and subtract multi-digit whole numbers	2.NBT.B.7 | 3.NBT.A.2
Round to nearest 10 or 100	3.NBT.A.1
Round to nearest 10 or 100 on the number line	3.NBT.A.1
Rounding challenge	3.NBT.A.1
Add within 1000	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

The Real and Complex Number Systems

Perform Operations

	Standards Alignment
RIT Range: 192-202	
Divide by 7	3.OA.C.7
Divide by 8	3.OA.C.7
Divide by 9	3.OA.C.7
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
Whole numbers on the number line	3.OA.C.7
2-step word problems	3.OA.D.8
RIT Range: 203-212	
Telling time word problems	4.MD.A.2
Round whole numbers	4.NBT.A.3
Round whole numbers challenge	4.NBT.A.3
Round whole numbers word problems	4.NBT.A.3
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

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 203-212

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
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	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

The Real and Complex Number Systems

Perform Operations

RIT Range: 203-212

	Standards Alignment
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
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

The Real and Complex Number Systems

Perform Operations

RIT Range: 213-219

	Standards Alignment
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
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
Round decimals	5.NBT.A.4
Round decimals challenge	5.NBT.A.4
Round decimals using a number line	5.NBT.A.4
Round decimals word problems	5.NBT.A.4
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

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 213-219

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
Dividing decimals 1	5.NBT.B.7
Dividing decimals 2	5.NBT.B.7
Estimating with adding decimals	5.NBT.B.7
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

The Real and Complex Number Systems

Perform Operations

RIT Range: 213-219

	Standards Alignment
Adding decimals: hundredths	5.NBT.B.7 | 6.NS.B.3
Adding decimals: tenths	5.NBT.B.7 | 6.NS.B.3
Multiplying decimals like 4x0.6 (standard algorithm)	5.NBT.B.7 | 6.NS.B.3
Subtracting decimals: hundredths	5.NBT.B.7 | 6.NS.B.3
Subtracting decimals: tenths	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 1	5.NF.A.1
Add and subtract mixed numbers with unlike denominators 2	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
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
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

The Real and Complex Number Systems

Perform Operations

	Standards Alignment
RIT Range: 220-223	
Adding decimals: hundredths	5.NBT.B.7 | 6.NS.B.3
Adding decimals: tenths	5.NBT.B.7 | 6.NS.B.3
Multiplying decimals like 4x0.6 (standard algorithm)	5.NBT.B.7 | 6.NS.B.3
Subtracting decimals: hundredths	5.NBT.B.7 | 6.NS.B.3
Subtracting decimals: tenths	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
Understanding dividing fractions by fractions	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
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: 224-227	
Absolute value to find distance	7.NS.A.1

The Real and Complex Number Systems

Perform Operations

RIT Range: 224-227

	Standards Alignment
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
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
Exponents with integer bases	7.NS.A.1 | 7.NS.A.2
Order of operations with negative numbers	7.NS.A.1 | 7.NS.A.2
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
Comparing rational numbers	7.NS.A.2
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

The Real and Complex Number Systems

Perform Operations

	Standards Alignment
RIT Range: 224-227	
Exponents with negative fractional bases	7.NS.A.2
Multiplying & dividing negative numbers	7.NS.A.2
Multiplying & dividing negative numbers word problems	7.NS.A.2
Multiplying positive and negative fractions	7.NS.A.2
Negative signs in fractions	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: 232-245	
Interpret units in formulas	HSN-Q.A.1
Multiple units word problems	HSN-Q.A.1
RIT Range: 246-255	
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
Multiply complex numbers (basic)	HSN-CN.A.2
Powers of the imaginary unit	HSN-CN.A.2

	Standards Alignment
RIT Range: 224-227	
Rewriting decimals as fractions challenge	7.EE.B.3

The Real and Complex Number Systems

Extend and Use Properties

	Standards Alignment
RIT Range: <160	
Compare numbers of objects 1	K.CC.C.6
RIT Range: 161-178	
Halves and fourths	1.G.A.3
2-digit place value challenge	1.NBT.B.2
Groups of ten objects	1.NBT.B.2
Compare 2-digit numbers	1.NBT.B.3
Compare 2-digit numbers 2	1.NBT.B.3
RIT Range: 179-191	
Equal parts of circles and rectangles	2.G.A.3
Hundreds, tens, and ones	2.NBT.A.1
3-digit place value challenge	2.NBT.A.3
Compare 3-digit numbers	2.NBT.A.4
RIT Range: 192-202	
Cut shapes into equal parts	3.G.A.2 | 3.NF.A.1
Identify unit fractions	3.G.A.2 | 3.NF.A.1
Identify numerators and denominators	3.NF.A.1
Recognize fractions	3.NF.A.1
Recognize fractions greater than 1	3.NF.A.1
Find 1 on the number line	3.NF.A.2
Fractions on the number line	3.NF.A.2
Unit fractions on the number line	3.NF.A.2
Relate fractions to 1	3.NF.A.2 | 3.NF.A.3
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

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 192-202

Compare fractions with the same numerator or denominator	3.NF.A.3
Equivalent fraction models	3.NF.A.3
Equivalent fractions on the number line	3.NF.A.3
Visually compare fractions 1	3.NF.A.3
Write fractions as whole numbers	3.NF.A.3

RIT Range: 203-212

Creating largest or smallest number	4.NBT.A.1
Divide whole numbers by 10	4.NBT.A.1
Multiply and divide by 10	4.NBT.A.1
Multiply whole numbers by 10	4.NBT.A.1
Place value when multiplying and dividing by 10	4.NBT.A.1
Compare multi-digit numbers	4.NBT.A.2
Compare multi-digit numbers word problems	4.NBT.A.2
Compare numbers: place value challenge	4.NBT.A.2
Intro to place value	4.NBT.A.2
Regroup whole numbers	4.NBT.A.2
Whole number place value challenge	4.NBT.A.2
Write numbers in written form	4.NBT.A.2
Write whole numbers in expanded form	4.NBT.A.2
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

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 203-212

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
Compare decimals and fractions	4.NF.C.7
Compare decimals visually	4.NF.C.7

RIT Range: 213-219

Graph points	5.G.A.1
Identify coordinates	5.G.A.1
Identify points	5.G.A.1
Compare decimal place value	5.NBT.A.1
Value of a digit	5.NBT.A.1
Understanding moving the decimal	5.NBT.A.2
Compare decimals challenge	5.NBT.A.3
Compare decimals through thousandths	5.NBT.A.3
Compare decimals word problems	5.NBT.A.3
Decimals in expanded form	5.NBT.A.3
Decimals in written form	5.NBT.A.3
Order decimals	5.NBT.A.3
Place value names	5.NBT.A.3
Regroup decimals	5.NBT.A.3
Fractions as division	5.NF.B.3

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 220-223

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
Reflecting points in the coordinate plane	6.NS.C.6 | 6.NS.C.8
Compare and order absolute values	6.NS.C.7
Compare and order 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: 228-231

Classify numbers	8.NS.A.1
Classify numbers: rational & irrational	8.NS.A.1

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 228-231

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: 232-245

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
Simplify square roots	HSN-RN.A.2
Simplify square-root expressions	HSN-RN.A.2
Simplify square-roots (variables)	HSN-RN.A.2
Unit-fraction exponents	HSN-RN.A.2
Rational vs. irrational expressions	HSN-RN.B.3

Geometry

Geometric Measurement and Relationships

	Standards Alignment
RIT Range: <160	
Name shapes 1	K.G.A.1
Relative position	K.G.A.1
Name shapes 2	K.G.A.2
Compare shapes	K.G.B.4
Compose shapes	K.G.B.6
Compare size	K.MD.A.2
RIT Range: 161-178	
Name shapes 3	1.G.A.1
Indirect measurement	1.MD.A.1
Order by length	1.MD.A.1
Measure lengths 1	1.MD.A.2
Tell time to hour or half hour	1.MD.B.3
RIT Range: 179-191	
Name shapes 4	2.G.A.1
Measure lengths 2	2.MD.A.1
Estimate lengths	2.MD.A.3
Length word problems	2.MD.B.5
Tell time with a labeled clock	2.MD.C.7
Tell time without labels	2.MD.C.7
RIT Range: 192-202	
Tell time to the nearest minute	3.MD.A.1
Telling time on the number line	3.MD.A.1
Telling time word problems (within the hour)	3.MD.A.1
Time differences (within the hour)	3.MD.A.1
Time word problems with number line	3.MD.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 192-202

Word problems with mass	3.MD.A.2
Word problems with volume	3.MD.A.2
Estimate mass (grams and kilograms)	3.MD.A.2 | 4.MD.A.1
Estimate volume (milliliters and liters)	3.MD.A.2 | 4.MD.A.1
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: 203-212

Estimate mass (grams and kilograms)	3.MD.A.2 | 4.MD.A.1
Estimate volume (milliliters and liters)	3.MD.A.2 | 4.MD.A.1
Angle types	4.G.A.1
Draw parallel and perpendicular lines	4.G.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 203-212

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
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	4.G.A.2
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
Draw angles	4.MD.C.6
Measure angles	4.MD.C.6
Angles in circles	4.MD.C.6 | 5.MD.C.5
Decompose angles	4.MD.C.7

Geometry

Geometric Measurement and Relationships

	Standards Alignment
RIT Range: 213-219	
Angles in circles	4.MD.C.6 | 5.MD.C.5
Coordinate plane word problems (quadrant 1 - challenging)	5.G.A.2
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
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 formula intuition	5.MD.C.5
Volume word problems	5.MD.C.5
RIT Range: 220-223	
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: 220-223	
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: 224-227	
Constructing 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
Relate scale drawings to area	7.G.A.1
Scale drawings	7.G.A.1
Scale factor in scale drawings	7.G.A.1
Constructing triangles	7.G.A.2
Ordering triangle sides and angles	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
Area and circumference of circles challenge	7.G.B.4

Geometry

Geometric Measurement and Relationships

	Standards Alignment
RIT Range: 224-227	
Area and circumference of parts of circles	7.G.B.4
Area of a circle	7.G.B.4
Circumference of a circle	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 missing angles	7.G.B.5
Identifying supplementary, complementary, and vertical angles	7.G.B.5
Quadrilateral 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: 228-231	
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
Solid geometry	8.G.C.9 | HSG-GMD.A.3
Solid geometry word problems	8.G.C.9 | HSG-GMD.A.3 | HSG-MG.A.1
RIT Range: 232-255	
Cross sections of 3D objects (basic)	7.G.A.3 | HSG-GMD.B.4
Solid geometry	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

RIT Range: 232-255

	Standards Alignment
Inscribed angles	HSG-C.A.2
Inscribed shapes	HSG-C.A.2
Tangents of circles problems	HSG-C.A.2
Quiz: 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
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

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 232-255

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: 203-212	
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: 228-231	
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
Reflect points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Rotate points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Translate points	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 shapes	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
Angle relationships with parallel lines	8.G.A.5

Geometry

Congruence, Similarity, Right Triangles, & Trig

	Standards Alignment
RIT Range: 228-231	
Equation practice with angle addition	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 and perimeter	8.G.B.7
Use Pythagorean theorem to find isosceles triangle side lengths	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: 232-255	
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
Reflect points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Rotate points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5
Translate points	8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5

Geometry

Congruence, Similarity, Right Triangles, & Trig

RIT Range: 232-255

	Standards Alignment
Determine reflections	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 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
Determine mappings	HSG-CO.B.6
Proofs with transformations	HSG-CO.C.9
Similarity & transformations (advanced)	HSG-SRT.A.2
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

Geometry

Congruence, Similarity, Right Triangles, & Trig

RIT Range: 232-255

	Standards Alignment
Solve similar triangles (advanced)	HSG-SRT.B.5
Solve similar triangles (basic)	HSG-SRT.B.5
Solve triangles: angle bisector theorem	HSG-SRT.B.5
Use similar & congruent triangles	HSG-SRT.B.5
DEPRECATED Trigonometry 0.5	HSG-SRT.C.6
DEPRECATED Trigonometry 1.5	HSG-SRT.C.6
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: <160	
Compare numbers of objects 2	K.MD.B.3
RIT Range: 161-178	
Solve problems with bar graphs 1	1.MD.C.4
RIT Range: 179-191	
Solve problems with bar graphs 2	2.MD.D.10
Solve problems with picture graphs 1	2.MD.D.10
Make bar graphs 1	2.MD.D.9
Make line plots	2.MD.D.9
Solve problems with line plots	2.MD.D.9
RIT Range: 192-202	
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
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Interpret dot plots with fractions 1	4.MD.B.4
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Interpret dot plots with fraction operations	5.MD.B.2
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Shape of distributions	6.SP.A.2
Reading box plots	6.SP.A.2 | 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
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
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
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RIT Range: 224-227	
Comparing distributions	7.SP.B.3 | 7.SP.B.4
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Constructing scatter plots	8.SP.A.1
Describing trends in scatter plots	8.SP.A.1

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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
Interpreting slope and y-intercept for linear models	8.SP.A.3
Estimating slope of line of best fit	8.SP.A.3 | HSS-ID.B.6
Interpreting two-way tables	8.SP.A.4
Reading two-way frequency tables	8.SP.A.4
Reading two-way relative frequency tables	8.SP.A.4
Two-way frequency tables	8.SP.A.4
Two-way relative frequency tables	8.SP.A.4
RIT Range: 232-255	
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Comparing data distributions	HSS-ID.A.1 | HSS-ID.A.2 | HSS-ID.A.3
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Empirical rule	HSS-ID.A.4
Normal distribution: Area above or below a point	HSS-ID.A.4
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Z-scores 1	HSS-ID.A.4
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Using Sampling and Probability to Make Decisions	Standards Alignment
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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
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