

Houghton Mifflin Harcourt

Waggle® Skills and Goals

correlated to the Wisconsin

Math Academic Standards Grades 2-8



GOAL	SKILL	CCSS
Add and Subtract within 20	Addition to 20	2.OA.2
Add and Subtract within 20	Subtraction within 20	2.OA.2
Add to 100	Addition to 100	2.NBT.5
Add to 100	Solve addition word problems	2.OA.1
Subtract within 100	Subtraction within 100	2.NBT.5
Subtract within 100	Solve subtraction word problems	2.OA.1
	Addition and subtraction strategies	2.NBT.9
Add and Subtract within 1,000	Addition to 1,000	2.NBT.7
	Subtraction within 1,000	2.NBT.7
Word Problems	Two-step word problems	2.OA.1
Word Problems	Represent word problems	2.OA.1
	Count to 1,000	2.NBT.2
 Mental Math	Skip-counting	2.NBT.2
Mental Math	Mental addition	2.NBT.8
	Mental subtraction	2.NBT.8
Even and Odd Numbers	Even and odd numbers	2.OA.3
Even and Odd Numbers	Even numbers as sums	2.OA.3
	Add more than two numbers	2.NBT.6
Work with Addition	Arrays	2.OA.4
	Add equal groups	2.OA.4
	Three-digit numbers	2.NBT.1
Hundreds, Tens, and Ones	Make 100	2.NBT.1.a
	Work with hundreds	2.NBT.1.b
Work with Three-Digit Numbers	Read and write numbers to 1,000	2.NBT.3
Work with Three-Digit Numbers	Compare three-digit numbers	2.NBT.4
	Use tools to measure length	2.MD.1
Measure Length	Measure length with different units	2.MD.2
	Line plots	2.MD.9
	Estimate length	2.MD.3
Solve Problems with Length	Find the difference between lengths	2.MD.4
	Add and subtract lengths	2.MD.5
Number Lines	Number lines	2.MD.6
Number Lines	Sums and differences on number lines	2.MD.6
Time and Money	Tell and write time	2.MD.7
Time and Money	Money	2.MD.8
	Draw picture graphs	2.MD.10
Graphs	Draw bar graphs	2.MD.10
	Solve problems using bar graphs	2.MD.10
	Features of shapes	2.G.1
Flat and Solid Shapes	Make squares in rectangles	2.G.2
	Make equal shares	2.G.3



GOAL	SKILL	CCSS
Add and Subtract Whole Numbers	Add to 1,000	3.NBT.2
Picture Graphs and Bar Graphs	Picture graphs	3.MD.3
	Tell time	3.MD.1
Time	Solve problems involving time	3.MD.1
	Understand multiplication	3.OA.1
Represent Multiplication	Missing numbers in multiplication equations	3.OA.4
	Apply properties of operations	3.OA.5
	Multiply within 100	3.OA.7
Multiply Whole Numbers	Multiply by multiples of 10	3.NBT.3
	Solve problems with multiplication	3.OA.3
Patterns	Identify number patterns	3.OA.9
	Understand division	3.OA.2
Represent Division	Relate multiplication and division	3.OA.6
	Missing numbers in division equations	3.OA.4
District Miles Le Nicorda con	Divide within 100	3.OA.7
Divide Whole Numbers	Solve problems with division	3.OA.3
	Measure mass	3.MD.2
Maria de Caracia	Solve mass problems	3.MD.2
Mass and Capacity	Measure capacity	3.MD.2
	Solve capacity problems	3.MD.2
David M/h ala Niviah ava	Round to the nearest 10	3.NBT.1
Round Whole Numbers	Round to the nearest 100	3.NBT.1
	Represent two-step word problems	3.OA.8
Two-Step Word Problems	Solve two-step word problems	3.OA.8
	Is the answer reasonable?	3.OA.8
Chanas	Understand categories of shapes	3.G.1
Shapes	Identify quadrilaterals	3.G.1
	Understand unit fractions	3.NF.1
	Relate fractions to area	3.G.2
Represent Fractions	Understand fractions	3.NF.1
	Unit fractions on a number line	3.NF.2a
	Fractions on a number line	3.NF.2b
Line Plots	Measure length to the nearest quarter inch	3.MD.4
Line Plots	Line plots with lengths	3.MD.4
	Understand equivalent fractions	3.NF.3a
Equivalent Fractions	Find equivalent fractions	3.NF.3b
	Whole numbers as fractions	3.NF.3c
	Compare fractions with like denominators	3.NF.3d
Compare Fractions	Compare fractions with like numerators	3.NF.3d
-	Understand square units	3.MD.5a
Hadayatand Ayaa	Understand area	3.MD.5b
Understand Area	Measure area by counting unit squares	3.MD.6

	Area of rectangles by tiling	3.MD.7a
	Area of rectangles by multiplying	3.MD.7b
Area of Rectangles	Use the distributive property to find area	3.MD.7c
	Area of figures made of rectangles	3.MD.7d
Perimeter and Area	Perimeter of polygons	3.MD.8
Fermileter and Area	Perimeter and area	3.MD.8



GOAL	SKILL	CCSS
	Place value in whole numbers	4.NBT.1
Place Value	Read and write whole numbers	4.NBT.2
	Compare whole numbers	4.NBT.2
	Round whole numbers	4.NBT.3
A Live Local Control	Add whole numbers	4.NBT.4
Addition and Subtraction	Subtract whole numbers	4.NBT.4
	Understand addition of fractions	4.NF.3a
	Fractions as sums of fractions	4.NF.3b
Add Fractions and Mixed Numbers	Add fractions with like denominators	4.NF.3c
	Add mixed numbers with like denominators	4.NF.3c
	Solve problems by adding fractions	4.NF.3d
	Understand subtraction of fractions	4.NF.3a
Subtract Fractions and Mixed	Subtract fractions with like denominators	4.NF.3c
Numbers	Subtract mixed numbers with like denominators	4.NF.3c
	Solve problems by subtracting fractions	4.NF.3d
	Interpret multiplication equations	4.OA.1
and the second	Multiply by 1-digit numbers	4.NBT.5
Multiplication	Multiply 2-digit numbers	4.NBT.5
	Solve multiplication word problems	4.OA.2
5	Divide by 1-digit numbers	4.NBT.6
Division	Solve division word problems	4.OA.2
	Represent multistep word problems	4.OA.3
M 10	Solve multistep word problems	4.OA.3
Multistep Word Problems	Solve multistep word problems with remainders	4.OA.3
	Reasonable answers	4.OA.3
	Number patterns	4.OA.5
Patterns	Shape patterns	4.OA.5
	Factors	4.OA.4
Factors and Multiples	Multiples	4.OA.4
·	Prime and composite numbers	4.OA.4
	Extend understanding of equivalent fractions	4.NF.1
Equivalent Fractions and Ordering	Equivalent fractions	4.NF.1
	Compare fractions	4.NF.2
	Equivalent fractions with denominators of 10 and 100	4.NF.5
Fractions and Decimals	Add fractions with denominators of 10 and 100	4.NF.5
	Rename fractions as decimals	4.NF.6
Camana Dadivila	Compare decimals to tenths	4.NF.7
Compare Decimals	Compare decimals to hundredths	4.NF.7
	Fractions as multiples of unit fractions	4.NF.4a
Fraction Multiplication	Multiply fractions by whole numbers	4.NF.4b
	Solve problems by multiplying a fraction by a whole number	4.NF.4c
Measurement Problems	Units of measure	4.MD.1

	Convert from larger units to smaller units	4.MD.1
	Solve measurement problems (whole numbers)	4.MD.2
	Solve measurement problems (fractions)	4.MD.2
	Solve measurement problems by converting	4.MD.2
	Line plots to eighths of a unit	4.MD.4
Line Plots	Add and subtract to solve problems with line plots	4.MD.4
Daving stance of Aug.	Perimeter of rectangles	4.MD.3
Perimeter and Area	Area of rectangles	4.MD.3
	Define angles	4.MD.5a
	Angles and degrees	4.MD.5b
Angle Measure	Draw and measure angles	4.MD.6
	Decompose angles	4.MD.7
	Find unknown angles	4.MD.7
	Points, lines, line segments, and rays	4.G.1
Lines and Angles	Parallel and perpendicular lines	4.G.1
Lines and Angles	Types of angles	4.G.1
	Identify parts of two-dimensional figures	4.G.1
	Classify figures based on lines	4.G.2
Two-Dimensional Figures	Classify figures based on angles	4.G.2
	Right triangles	4.G.2
	Lines of symmetry	4.G.3



GOAL	SKILL	CCSS
Place Value	Place value concepts	5.NBT.1
riace value	Powers of 10	5.NBT.2
	Read and write decimals to thousandths	5.NBT.3a
Decimals to Thousandths	Compare decimals	5.NBT.3b
	Round decimals	5.NBT.4
	Multiply whole numbers by powers of 10	5.NBT.2
Multiply and Divide Whole Numbers	Multiply whole numbers	5.NBT.5
Multiply and Divide Whole Numbers	Solve multiplication word problems	5.NBT.5
	Divide by 2-digit numbers	5.NBT.6
	Add decimals to hundredths	5.NBT.7
	Subtract decimals to hundredths	5.NBT.7
Decimal Operations	Multiply and divide decimals by powers of 10	5.NBT.2
	Multiply decimals to hundredths	5.NBT.7
	Divide decimals to hundredths	5.NBT.7
	Add fractions with unlike denominators	5.NF.1
	Add mixed numbers with unlike denominators	5.NF.1
Add and Subtract Fractions	Subtract fractions with unlike denominators	5.NF.1
	Subtract mixed numbers with unlike denominators	5.NF.1
	Add and subtract fractions with unlike denominators	5.NF.1
Call a Barbla and barbla and	Solve problems by adding fractions and mixed numbers	5.NF.2
Solve Problems by Adding and	Solve problems by subtracting fractions and mixed numbers	5.NF.2
Subtracting Fractions	Reasonable answers with fractions	5.NF.2
Functions and Division	Interpret fractions as division	5.NF.3
Fractions and Division	Fractions as answers to division problems	5.NF.3
	Multiply a fraction by a whole number	5.NF.4a
Multiply with Fractions	Area of rectangles with fractional side lengths	5.NF.4b
	Solve problems by multiplying fractions and mixed numbers	5.NF.6
	Compare products to the sizes of factors	5.NF.5a
Multiplication as Scaling	Explain multiplication by a fraction	5.NF.5b
	Fraction equivalence	5.NF.5b
	Divide a unit fraction by a whole number	5.NF.7a
Divide with Unit Fractions	Divide a whole number by a unit fraction	5.NF.7b
	Solve problems by dividing unit fractions and whole numbers	5.NF.7c
Niversian Francisco	Write and interpret numerical expressions	5.OA.2
Numerical Expressions	Evaluate numerical expressions	5.OA.1
Massurament Drahlams	Convert measurement units within a system	5.MD.1
Measurement Problems	Solve multistep measurement problems	5.MD.1
Line Diete	Line plots with fractions of a unit	5.MD.2
Line Plots	Solve problems with line plots	5.MD.2
	Understand the coordinate plane	5.G.1
The Coordinate Plane	Graph points in the first quadrant	5.G.2
	Interpret ordered pairs	5.G.2

	Generate numerical patterns by using given rules	5.OA.3
Patterns and Relationships	Relationships between corresponding terms	5.OA.3
	Graph patterns	5.OA.3
	Understand cubic units	5.MD.3a
Understand Volume	Understand volume	5.MD.3b
	Measure volume by counting unit cubes	5.MD.4
	Volume of rectangular prisms with unit cubes	5.MD.5a
Volume of Rectangular Prisms	Volume of rectangular prisms with formulas	5.MD.5b
	Volume of figures made of rectangular prisms	5.MD.5c
Classify Shapes	Attributes of shapes	5.G.3
Classify Strapes	Classify shapes based on properties	5.G.4



GOAL	SKILL	CCSS
	Divide whole numbers	6.NS.2
Divide Whole Numbers and Fractions	Divide whole numbers by fractions	6.NS.1
,	Divide fractions	6.NS.1
	Add decimals	6.NS.3
	Subtract decimals	6.NS.3
Decimal Operations	Multiply decimals	6.NS.3
	Divide decimals	6.NS.3
	Solve two-step word problems with decimals	6.NS.3
	Represent quantities with positive and negative numbers	6.NS.5
Positive and Negative Numbers	The opposite of a number	6.NS.6a
	Rational numbers on number lines	6.NS.6c
Camanaga Niverbaga	Interpret statements of inequality	6.NS.7a
Compare Numbers	Compare rational numbers	6.NS.7b
	Understand absolute value	6.NS.7c
Absolute Value	Absolute value and statements about order	6.NS.7d
	Absolute value and magnitude	6.NS.7c
Ni	Repeated multiplication and exponents	6.EE.1
Numerical Expressions	Evaluate numerical expressions with exponents	6.EE.1
	Parts of expressions	6.EE.2b
Algebraic Expressions	Translate verbal expressions into algebraic expressions	6.EE.2a
	Write expressions using variables	6.EE.6
Fugluate Algebraic Fuguessions	Evaluate algebraic expressions	6.EE.2c
Evaluate Algebraic Expressions	Evaluate formulas	6.EE.2c
	Greatest common factor	6.NS.4
GCF and LCM	Least common multiple	6.NS.4
	Rewrite numeric expressions using the distributive property	6.NS.4
	Generate equivalent expressions	6.EE.3
Equivalent Expressions	Generate equivalent expressions using the Distributive Property	6.EE.3
	Decide if expressions are equivalent	6.EE.4
	Decide if a number makes an equation true	6.EE.5
Equations	Solve one-step addition equations	6.EE.7
	Solve one-step multiplication equations	6.EE.7
	Write simple inequalities	6.EE.8
Inequalities	Decide if a number makes an inequality true	6.EE.5
	Represent inequalities on number lines	6.EE.8
	Understand ratios	6.RP.1
Ratios and Rates	Convert measurement units	6.RP.3d
Ratios and Rates	Understand unit rates	6.RP.2
	Solve unit rate problems	6.RP.3b
	Complete ratio tables	6.RP.3a
Tables of Equivalent Ratios	Compare ratios shown in tables	6.RP.3a
	Equivalent ratios on the coordinate plane	6.RP.3a

Percent	Find a percent of a number	6.RP.3c
1 ercent	Find the whole given a part and a percent	6.RP.3c
Dependent and Independent	Identify dependent and independent variables	6.EE.9
Dependent and Independent Variables	Relationship between independent and dependent variables	6.EE.9
variables	Equations relating variables	6.EE.9
	Quadrants on the coordinate plane	6.NS.6b
The Coordinate Plane	Ordered pairs on the coordinate plane	6.NS.6c
	Reflections of points on the coordinate plane	6.NS.6b
	Polygons in the coordinate plane	6.G.3
Using the Coordinate Plane	Lengths of sides of polygons on the coordinate plane	6.G.3
	Solve problems on the coordinate plane	6.NS.8
	Area of triangles	6.G.1
Area	Area of parallelograms and trapezoids	6.G.1
	Area of polygons	6.G.1
	Volume of rectangular prisms with fractional edge lengths	6.G.2
Volume and Surface Area	Nets of solid figures	6.G.4
	Use nets to find surface area	6.G.4
	Recognize statistical questions	6.SP.1
Statistical Variability	Center, spread, and shape	6.SP.2
Statistical variability	Measures of center	6.SP.3
	Measures of variation	6.SP.3
	Mean and median	6.SP.5c
Summarize Numerical Data Sets	Mean absolute deviation	6.SP.5c
Summanze Numerical Data Sets	Range and interquartile range	6.SP.5c
	Determine appropriate measures of center and variability	6.SP.5d
	Box plots	6.SP.4
Display Data	Dot plots	6.SP.4
	Histograms	6.SP.4
	Report the number of observations	6.SP.5a
Describe Data	Describe the nature of collected data	6.SP.5b
	Identify overall patterns and deviations from patterns	6.SP.5c



GOAL	SKILL	CCSS
Opposites and Inverses	Combine opposite quantities	7.NS.1a
Opposites and inverses	Identify additive inverses	7.NS.1b
	Describe the location of a sum on a number line	7.NS.1b
Addition and Cubturation of Dational	Interpret sums of rational numbers	7.NS.1b
Addition and Subtraction of Rational Numbers	Distance between numbers on a number line	7.NS.1c
Numbers	Understand subtraction of rational numbers	7.NS.1c
	Add and subtract rational numbers	7.NS.1d
	Understand multiplication of integers	7.NS.2a
	Multiply signed numbers	7.NS.2a
Multiplication and Division of	Interpret products of rational numbers	7.NS.2a
Rational Numbers	Understand division of integers	7.NS.2b
	Interpret quotients of rational numbers	7.NS.2b
	Multiply and divide rational numbers	7.NS.2c
Firstians and Davinsols	Convert fractions to decimals	7.NS.2d
Fractions and Decimals	Terminating and repeating decimals	7.NS.2d
	Compute unit rates associated with ratios of fractions	7.RP.1
Solve Problems with Rational	Solve problems with rational numbers	7.NS.3
Numbers	Solve multistep problems with rational numbers	7.EE.3
	Assess the reasonableness of answers	7.EE.3
	Area of figures made of polygons	7.G.6
Area, Surface Area, and Volume	Surface area of figures made of prisms	7.G.6
	Volume of figures made of prisms	7.G.6
	Add and subtract expressions	7.EE.1
Equivalent Expressions	Factor and expand expressions	7.EE.1
·	Rewrite expressions to better understand relationships	7.EE.2
Cincon forman and America Cincles	Area and circumference of circles	7.G.4
Circumference and Area of Circles	Relating circumference and area of circles	7.G.4
	Write and solve two-step equations	7.EE.4a
Equations	Compare algebraic and arithmetic solutions	7.EE.4a
Luciona Petro	Write and solve two-step inequalities	7.EE.4b
Inequalities	Graph and interpret solution sets of inequalities	7.EE.4b
	Geometric shapes with given characteristics	7.G.2
Western with Change and August	Possible triangles given side lengths and angle measures	7.G.2
Working with Shapes and Angles	Cross sections of three-dimensional figures	7.G.3
	Find unknown angle measures in multistep problems	7.G.5
	Proportional relationships and equivalent ratios	7.RP.2a
	Proportional relationships and ordered pairs	7.RP.2a
Proportional Relationships	Constant of proportionality	7.RP.2b
	Equations representing proportional relationships	7.RP.2c
	Interpret points on the graph of a proportional relationship	7.RP.2d
Use Proportional Reasoning to Solve	Solve problems involving scale drawings	7.G.1
Problems	Resize a scale drawing	7.G.1

	Solve multistep ratio and percent problems	7.RP.3
	Understand and identify representative samples	7.SP.1
Random Sampling	Understand random sampling	7.SP.1
Kandom Sampling	Analyze and interpret data from a random sample	7.SP.2
	Variation in results from multiple random samples	7.SP.2
Analyze Data from Two Populations	Compare two data distributions	7.SP.3
Analyze Data Ironi Two Populations	Draw inferences about populations by analyzing samples	7.SP.4
	Understand probability as a number between 0 and 1	7.SP.5
Understand Probability	Interpret the likelihood of a chance event	7.SP.5
Understand Probability	Find the experimental probability of an event	7.SP.6
	Predict the relative frequency of an event	7.SP.6
Probability Models	Develop and apply uniform probability models	7.SP.7a
Probability Models	Develop a probability model using collected data	7.SP.7b
Compound Events	Represent sample spaces for compound events	7.SP.8b
	Determine probabilities of compound events	7.SP.8a
	Simulate relative frequencies of compound events	7.SP.8c



GOAL	SKILL	CCSS
	Understand irrational numbers	8.NS.1
Rational and Irrational Numbers	Common examples of irrational numbers	8.EE.2
	Decimal expansions of numbers	8.NS.1
	Convert decimals to fractions	8.NS.1
Annuarinations of Invational	Irrational numbers on a number line	8.NS.2
Approximations of Irrational Numbers	Compare irrational numbers	8.NS.2
numbers	Expressions with irrational numbers	8.NS.2
	Expressions with integer exponents	8.EE.1
Evenements and Doots	Square roots of perfect squares	8.EE.2
Exponents and Roots	Cube roots of perfect cubes	8.EE.2
	Use square root and cube root symbols to represent solutions	8.EE.2
	Understand scientific notation	8.EE.3
Scientific Notation	Express quantities in scientific notation	8.EE.4
	Operations with numbers in scientific notation	8.EE.4
	The Pythagorean Theorem	8.G.6
Pythagorean Theorem	Apply the Pythagorean Theorem	8.G.7
	Distance on the coordinate plane	8.G.8
	Volume of a cylinder	8.G.9
W 1	Volume of a cone	8.G.9
Volume	Volume of a sphere	8.G.9
	Volume of composite figures	8.G.9
	Graphs of proportional relationships	8.EE.5
	Compare proportional relationships represented in different ways	8.EE.5
Proportional Relationships and Slope	Slope of a line and similar triangles	8.EE.6
	Equations of the form $y = mx$	8.EE.6
	Equations of the form $y = mx + b$	8.EE.6
	Linear equations with one, many, or no solutions	8.EE.7a
Solve Linear Equations	Solve linear equations	8.EE.7b
	Identify solutions to systems of equations from graphs	8.EE.8a
	Estimate solutions to systems of equations graphically	8.EE.8b
Systems of Equations	Solve systems of equations algebraically	8.EE.8b
•	Solve systems of equations by inspection	8.EE.8b
	Write and solve systems of linear equations	8.EE.8c
	Understand functions	8.F.1
	Graphs of functions	8.F.1
Functions	Compare properties of functions represented differently	8.F.2
	Understand the equation $y = mx + b$ defines a linear function	8.F.3
	Identify non-linear functions	8.F.3
	Interpret rates of change and initial values of functions	8.F.4
Model Relationships with Functions	Use functions to model relationships	8.F.4
	Describe relationships represented in graphs	8.F.5
	Graphs of qualitative relationships	8.F.5

Scatter Plots	Patterns in scatter plots	8.SP.1
	Display data in scatter plots	8.SP.1
	Trend lines	8.SP.2
	Use linear models to interpret data	8.SP.3
Two-Way Tables	Analyze associations in two-way tables	8.SP.4
	Display data in two-way tables	8.SP.4
Rigid Transformations and Congruence	Lines and line segments in rigid transformations	8.G.1a
	Angles in rigid transformations	8.G.1b
	Parallel lines in rigid transformations	8.G.1c
	Congruence and rigid transformations	8.G.2
	Demonstrate the congruence of figures	8.G.2
Translations, Rotations, and Reflections	Translations on the coordinate plane	8.G.3
	Rotations on the coordinate plane	8.G.3
	Reflections on the coordinate plane	8.G.3
Dilations and Similarity	Understand dilations	8.G.3
	Dilations on the coordinate plane	8.G.3
	Similarity and transformations	8.G.4
	Demonstrate the similarity of figures	8.G.4
Angle Relationships	Angle relationships in triangles	8.G.5
	Parallel lines cut by a transversal	8.G.5



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