

DimensionM Mathematics Content

**Indicates content contained in the Demo Curriculum Pack

Math: Level D

Topic	Game Skill Name	Skill Description
Number and Operations	Place Value	Understand place value in the base-ten number system (units from ones to thousands)
Number and Operations	Compare Whole Numbers	Compare and order whole numbers to 1,000
Number and Operations	Equivalent Number Forms	Recognize equivalent representations of a number by composing and decomposing
Number and Operations	Fractions as Part/Whole	Understand fractions as part of a whole unit
**Number and Operations	Fractions as Part/Group	Understand fractions as part of a collection of objects
Number and Operations	Compare Fractions	Compare and order fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$), including those on a number line
Number and Operations	Equivalent Fractions	Recognize equivalent fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)
Number and Operations	Use Symbols to Compare	Use symbols ($<$, $>$, $=$) to compare whole numbers and fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$)
**Number and Operations	Multiplication	Understand multiplication as repeated addition
Number and Operations	Division	Understand division as repeated subtraction
Number and Operations	Multiply/Divide	Understand the effects of multiplication and division (whole numbers)
Number and Operations	Properties of Addition	Understand and use properties of addition (associative and commutative)
Number and Operations	Properties of Multiplication	Understand and use properties of multiplication (identity, zero, associative, commutative)
Number and Operations	Multiplication Facts	Develop fluency with single-digit multiplication facts
Number and Operations	Division Facts	Develop fluency with single-digit division facts
Number and Operations	Add/Subtract Whole Numbers	Add and subtract 2- and 3-digit numbers
Number and Operations	Add Even/Odd Numbers	Understand and use properties of odd and even numbers with addition
Number and Operations	Estimate in Problem Solving	Use strategies to estimate whole-number computation
Number and Operations	Estimate to Check Results	Check the reasonableness of results using estimation
Algebra	Patterns/Number Sequences	Describe and extend patterns (numeric and geometric) and number sequences
Algebra	Properties of Operations	Identify and use properties of operations (commutative, associative)
Algebra	Relationships as Equations	Express mathematical relationships using equations
Geometry	Describe Figures	Identify, describe, and compare characteristics of two-dimensional (triangle, square, rectangle, rhombus, trapezoid, hexagon, circle) and three-dimensional (cube, cylinder, sphere, prism, cone) figures
Geometry	Characteristics of Figures	Classify two- and three-dimensional figures according to their characteristics
Measurement	Use Units of Measure	Understand characteristics such as length, perimeter, and weight and select the appropriate type of unit for measuring each
Measurement	Convert Units	Represent and perform simple unit conversions (e.g., inches to feet, hours to minutes)

Math: Level E

Topic	Game Skill Name	Skill Description
Number and Operations	Place Value	Understand place value in the base-ten number system (units from ones to ten thousands)
**Number and Operations	Compare Numbers	Use symbols ($<$, $>$, $=$) to compare whole numbers, unit fractions, and decimals
Number and Operations	Decimals as Part/Whole	Understand decimals as part of a whole unit (e.g., money to the hundredths)
**Number and Operations	Equivalent Number Forms	Recognize equivalent representations of a number use by composing and decomposing
Number and Operations	Equivalent Fractions	Recognize equivalent fractions (halves, thirds, fourths, fifths, sixths, tenths)
Number and Operations	Apply Fractions	Understand fractions as locations on a number line and as division of whole numbers
Number and Operations	Equivalent Decimals/Fractions	Recognize decimals as an equivalent form of fractions
Number and Operations	Multiply/Divide	Understand the effects of multiplication and division (whole numbers)
Number and Operations	Inverse Operations	Identify and use multiplication and division as inverse operations to solve problems
Number and Operations	Problem-Solving Methods	Select appropriate methods (computational and operation) to solve problems
Number and Operations	Properties of Multiplication	Understand and use properties of multiplication (identity, zero, associative, commutative, distributive)
Number and Operations	Multiples of 10/100	Develop fluency with multiplication and division by multiples of 10 and 100
Number and Operations	Add/Subtract Numbers	Add and subtract numbers up to 10,000
Number and Operations	Multiply Even/Odd Numbers	Understand and use properties of odd and even numbers with multiplication
Number and Operations	Multiply	Develop fluency with multiplication of two-digit numbers by one- and two-digit numbers (with and w/o regrouping)
Number and Operations	Divide	Develop fluency with division of two-digit numbers by one-digit numbers (with and w/o remainders)
Number and Operations	Round Whole Numbers	Round whole numbers less than 1,000 to tens and hundreds
Number and Operations	Estimate to Check Results	Check the reasonableness of results using estimation
Number and Operations	Add/Subtract Fractions	Add and subtract fractions with like denominators
Number and Operations	Add/Subtract Decimals	Add and subtract decimals
Algebra	Patterns	Describe, extend, and make generalizations about patterns (numeric and geometric)
Algebra	Analyze Patterns/Functions	Analyze patterns and whole-number functions, using words and tables
Algebra	Properties of Operations	Identify and use properties of operations (commutative, associative, distributive)
Algebra	Equations/Inequalities	Understand basic equations and inequalities
Geometry	Characteristics of Figures	Identify, describe, and compare characteristics of two-dimensional (triangle, square, rectangle, rhombus, trapezoid, hexagon, circle) and three-dimensional (cube, cylinder, sphere, prism, cone) figures
Measurement	Identify Angles	Identify angles as acute, obtuse, right, and straight
Measurement	Use Units of Measure	Understand characteristics such as length, perimeter, area, and weight and select the appropriate type of unit for measuring each
Measurement	Standard Units	Become familiar with standard units (customary and metric)
Measurement	Calculate Elapsed Time	Calculate elapsed time in hours and half hours
Measurement	Convert Units	Represent and perform simple unit conversions (e.g., dollars to cents)
Measurement	Find Area	Understand and use formulas to find the area of rectangles

Math: Level F

Topic	Game Skill Name	Skill Description
Number and Operations	Compare Numbers	Use symbols (<, >, =, ≠) to compare whole numbers to one million, fractions, and decimals to thousandths
Number and Operations	Equivalent Fractions	Recognize equivalent representations of fractions by simplifying to lowest terms
Number and Operations	Improper Fractions	Recognize improper fractions as an equivalent form of mixed numbers
Number and Operations	Find Factors	Identify factors of a given number
Number and Operations	Prime/Composite Numbers	Understand prime and composite numbers
Number and Operations	Multiply	Develop fluency with multiplication of three-digit by three-digit numbers
Number and Operations	Divide	Develop fluency with division of three-digit numbers by two-digit numbers (with and w/o remainders)
Number and Operations	Estimate to Check Results	Check the reasonableness of results using estimation
Number and Operations	Estimate with Fractions	Use strategies to estimate sums and differences of fractions with like denominators
Number and Operations	Estimate with Decimals	Use strategies to estimate sums, differences, products, and quotients of decimals
**Number and Operations	Find Common Factors/GCF	Find the common factors and greatest common factor (GCF) of two numbers
Number and Operations	Find Multiples/LCM	Calculate multiples and least common multiples (LCM)
**Number and Operations	Add/Subtract Fractions	Add and subtract fractions and mixed numbers with like denominators
Algebra	Describe Patterns	Describe, extend, and make generalizations about patterns (numeric, geometric, and algebraic)
Algebra	Order of Operations	Evaluate expressions using order of operations (PEMDAS)
Algebra	Variables/Equations	Express mathematical relationships using variables and equations
Algebra	Translate to Algebra	Translate simple verbal expressions to algebraic expressions
Algebra	Substitute for Variables	Use assigned values to evaluate variable expressions using substitution
Algebra	Solve Equations	Solve simple one-step equations using whole number facts and inverse operations
Geometry	Interior Angles	Understand the sum of the interior angles of triangles and quadrilaterals
Geometry	Classify Figures	Classify two- and three-dimensional figures according to characteristics of angles and sides
Measurement	Convert Measurements	Represent and perform conversions in a given system (customary or metric)
Measurement	Find Perimeter	Develop strategies to find perimeter of irregular figures
Measurement	Find Surface Area/Volume	Develop strategies to find surface area and volume of rectangular solids
Data Analysis and Probability	Find the Mean	Calculate the mean for a given set of data
Data Analysis and Probability	Possible Outcomes	List possible outcomes for a single-event experiment
Data Analysis and Probability	Likelihood of an Event	Understand the measure of likelihood of an event as a number from 0 to 1
Data Analysis and Probability	Predict Probability	Predict the probability of a simple event

Math: Level G

Topic	Game Skill Name	Skill Description
Number and Operations	Fractions/Decimals/Percents	Develop fluency with solving problems involving fractions, decimals, and percents
Number and Operations	Equiv. Rational Numbers	Use multiple representations of rational numbers (percents, fractions, decimals)
Number and Operations	Compare Numbers	Compare and order fractions, decimals, and percents
Number and Operations	Cross Multiplication	Use cross multiplication to show that two fractions are equivalent
Number and Operations	Find Percent/Rate	Use ratios and proportions to solve problems involving percent and rate
Number and Operations	Fractions/Unlike Denominators	Understand the effects of operations (+, -, ×, ÷) with fractions having unlike denominators
	Mixed Numbers/Unlike Denominators	Understand the effects of operations (+, -, ×, ÷) with mixed numbers having unlike denominators
Number and Operations	Properties of Addition	Use properties of addition (identity, inverse, commutative, associative) with fractions, decimals, and integers
Number and Operations	Properties of Multiplication	Use properties of multiplication (zero, identity, inverse, commutative, associative, distributive) with fractions, decimals, and integers
Number and Operations	Inverse Operations	Use inverse relationships (addition and subtraction, multiplication and division, squaring and finding square roots) to solve problems
Number and Operations	Estimate Percents	Estimate a percent of a quantity (from 0% to 100%)
Number and Operations	Estimate to Check Results	Use strategies to estimate and/or check the reasonableness of results
Algebra	Analyze Patterns	Represent and analyze patterns with tables, words, or symbolic rules
Algebra	Use Variables in Expressions	Understand and use variables appropriately in algebraic expressions
Algebra	Translate to Algebra	Translate two-step verbal expressions into algebraic expressions and equations
Algebra	Solve Linear Eq.	Generate equivalent forms of simple algebraic expressions and solve linear equations
Geometry	Classify Figures	Describe and classify relationships among types of two- and three-dimensional figures and objects
Measurement	Measurement Systems	Understand both customary and metric systems of measurement
Measurement	Equiv. Customary Units	Understand relationships among equivalent customary units of capacity (e.g., cups to pints)
Measurement	Equiv. Metric Units	Understand relationships among equivalent metric units of capacity (e.g., milliliters to liters)
**Measurement	Find Area/Volume	Use strategies to find areas and volumes from lengths
Measurement	Find Lengths w/Area/Volume	Use strategies to find lengths from volumes or areas and lengths
Measurement	Equiv. Ratios/Proportions	Express equivalent ratios as a proportion
**Measurement	Solve Proportions	Solve proportions using equivalent fractions
Measurement	Find Rates	Understand the concept of rate
Data Analysis and Probability	Frequency Tables	Record data in a frequency table
Data Analysis and Probability	Mean/Median/Mode	Find the mean, median, and mode for a given set of data
Data Analysis and Probability	Find Possible Outcomes	List possible outcomes for compound events
Data Analysis and Probability	Find Probability	Determine the probability of dependent events

Math: Level H

Topic	Game Skill Name	Skill Description
Number and Operations	Rational/Irrational Numbers	Use rational and irrational numbers (e.g., explore different approximations of π)
Number and Operations	Solve Percent Problems	Use ratio and proportionality to solve percent problems (taxes, tips, interest, discounts, percent increase/decrease)
Number and Operations	Find Common Factors/GCF	Find common factors and greatest common factor (GCF) of two or more numbers
Number and Operations	Find Multiples/LCM	Find multiples and least common multiple (LCM) of two or more numbers
Number and Operations	Find Prime Factorization	Find the prime factorization of a given number and represent in exponential form
Number and Operations	Perfect Squares	Recognize the value of the square root of a perfect square (up to 225)
Number and Operations	Rational Numbers	Understand the effects of operations (+, -, \times , \div) with all rational numbers, including negative integers
Number and Operations	Properties of Addition	Use properties of addition (identity, inverse, commutative, associative) with all rational numbers, including negative integers
Number and Operations	Properties of Multiplication	Use properties of multiplication (zero, identity, inverse, commutative, associative, distributive) with all rational numbers, including negative integers
Number and Operations	Inverse Relationships	Use inverse relationships (addition and subtraction, multiplication and division, squaring and finding square roots) to solve problems involving all rational numbers, including negative integers
Number and Operations	Order of Operations	Simplify expressions involving exponents using order of operations
Algebra	Linear/Nonlinear Funct.	Identify functions as linear or nonlinear
Algebra	Represent Funct. w/Eq.	Write an equation to represent a function using a table of values
Algebra	Add/Subtract Monomials	Add and subtract monomials with exponents of one
Algebra	Translate to Algebra	Translate two-step verbal expressions into algebraic expressions
**Algebra	Equivalent Alg. Expressions	Recognize and generate equivalent forms for simple algebraic expressions
**Algebra	Solve Multi-Step Eq.	Solve multi-step equations by combining like terms, using the distributive property, and isolating variables
Algebra	Solve Inequalities	Solve one-step inequalities (positive coefficients only)
Algebra	Solve Eq./Inequalities	Solve all types of linear equations and inequalities in one variable
Geometry	Similar Figures	Understand the relationships in similar figures (angles, side lengths, perimeters, areas, volumes)
Measurement	Convert Capacities	Convert capacities within a given system (customary or metric)
Measurement	Convert Mass	Convert mass within a given system (customary or metric)
Measurement	Convert Unit Prices/Money	Compare unit prices and convert money using an exchange rate table
Measurement	Diameter/Radius	Calculate radius or diameter of a circle given its circumference or area
Measurement	Find Surface Area	Find the surface area of prisms and cylinders
Measurement	Find Volume	Find the volume of prisms and cylinders
Measurement	Scale Factors of Length	Understand scale factors of lengths in similar figures and how the square of the scale factors extends to area and the cube of the scale factor extends to volume
Measurement	Find Rates	Solve problems involving rates (e.g., motion at a constant speed)
Data Analysis and Probability	Find Range	Find the range for a given set of data
Data Analysis and Probability	Estimate Using Samples	Use proportions to make estimates about a population based on a sample

Math: Level I

Topic	Game Skill Name	Skill Description
Number and Operations	Percents <1% and >100%	Understand percent values of less than 1% and greater than 100%
Number and Operations	Exponents of Zero/Negative Values	Understand zero and negative exponents with a base of 10 or 2 and relate to fractions
Number and Operations	Square Roots	Develop fluency solving problems with square roots (e.g., those involving Pythagorean theorem)
Algebra	Represent Funct. w/Eq.	Translate among verbal, tabular, and algebraic representations of functions
Algebra	Translate to Inequalities	Translate verbal expressions into algebraic inequalities
Algebra	Multiply/Divide Monomials	Multiply and divide monomials
Algebra	Add/Subtract Polynomials	Add and subtract polynomials (integer coefficients)
Algebra	Multiply Polynomials	Multiply a binomial by a monomial or a binomial (integer coefficients)
**Algebra	Divide Polynomials	Divide a polynomial by a monomial (integer coefficients)
Algebra	Solve Systems of Eq.	Solve systems of two linear equations in two variables
Algebra	Linear Eq./Funct./Slope	Use linear equations, systems of linear equations, linear functions, and concept of slope of a line to analyze situations and solve problems
**Algebra	Solve Multi-Step Inequalities	Solve multi-step inequalities by combining like terms, using the distributive property, and isolating variables
Geometry	Intercepts/Slope	Understand the concept of intercepts and slope
Geometry	Find Eq. of a Line	Find the equation of a line given slope and y-intercept
Geometry	Distance Between Points	Use the Pythagorean theorem to find the distance between two points on a coordinate plane
Geometry	Angles Formed by Transversal	Identify characteristics of angles formed when two parallel lines are cut by a transversal
Measurement	Convert Equivalent Measures	Solve equations/proportions for conversion to equivalent measurements within a given system (customary and metric)
Measurement	Indirect Measurement	Use similarity to find indirect measurements
Data Analysis and Probability	Mean/Median/Range	Use mean, median, and range to summarize a given set of data
Data Analysis and Probability	Quartiles	Find the 1st and 3rd quartiles and interquartile range for a given set of data

Math: Level Algebra (Algebra I & II)

Topic	Game Skill Name	Skill Description
Number and Operations	Equiv. Real Numbers	Generate equivalent forms of real numbers (integer exponent and radicals, scientific notation, absolute value, rational numbers, irrational numbers, percents)
Number and Operations	Properties of Real Numbers	Develop fluency with properties of real numbers (closure, commutative, associative, distributive identity, inverse)
Number and Operations	Simplify Radical Terms	Simplify radical terms using the laws of exponents
Algebra	Operations w/Radical Terms	Add, subtract, multiply, and divide using like and unlike radical terms, expressing results in simplest form
**Algebra	Solve Alg. Problems	Solve algebraic application problems involving fractions, decimals, percent increase/decrease, percent discount, and proportionality/direct variation
**Algebra	Factorials/Exponents/Absolute Values	Evaluate expressions involving factorials, absolute values, and exponents
Algebra	Combinations/Permutations	Use counting techniques to find the number of combinations and permutations
Algebra	Undefined Fractions	Find values of a variable for which an algebraic fraction is undefined
Algebra	Set-Builder/Interval Notation	Use set-builder and interval notation to represent the elements of a given set
Algebra	Complement of a Subset	Find the complement of a subset of a given set
Algebra	Intersection/Union	Find the intersection and/or union of given sets
Algebra	Domain/Range of Relations	Find the domain and range of a relation
Algebra	Solve Relation/Funct. Problems	Solve application problems involving relations and functions
Algebra	Translate to Algebra	Translate between verbal phrases and algebraic expressions
Algebra	Equiv. Eq./Inequalities	Develop fluency with writing and solving equivalent forms of equations, inequalities, and systems of equations

Algebra	Quadratic Eq.	Solve application problems involving quadratic equations
Algebra	Exponential Growth/Decay	Solve application problems involving exponential growth and decay
Algebra	Multiply/Divide Monomials	Multiply and divide monomials using the properties of exponents
Algebra	Simplify Polynomial Fractions	Simplify fractions with polynomials in the numerator and denominator
Algebra	Difference of Perfect Squares	Find and factor the difference of two perfect squares
Geometry	Find Eq. w/Points	Identify the equation of a line given coordinates of two points on the line
Geometry	Find Eq. w/Slope	Identify the equation of a line given its slope and coordinates of one point on the line
Geometry	Identify Parallel Lines	Use the equation of a line to determine whether it is parallel to the x- or y-axis
Geometry	Find Slope w/Eq.	Find the slope of a line, given its equation in any form
Geometry	Find Sine/Cosine/Tangent	Find the sine, cosine, and tangent of an angle in a right triangle
Measurement	Find Area/Perimeter	Find the area and perimeter of polygons and circles (or sectors of a circle)
Measurement	Find Volume/Surface Area	Find the volume and surface area of prisms and cylinders
Measurement	Find Rates	Find rates using appropriate units
Measurement	Convert Measurements	Solve problems involving conversions within a measurement system
Measurement	Relative Errors of Measurement	Find relative error in square and cubic units with an error in linear measure
Data Analysis and Probability	Identify Types of Data	Classify data as quantitative or qualitative
Data Analysis and Probability	Measures of Central Tendency	Analyze appropriateness of measures of central tendency for a given data set
Data Analysis and Probability	Correlation/Causation	Understand the difference between correlation and causation
Data Analysis and Probability	Conditional Probability	Calculate conditional probability in a finite sample space
Data Analysis and Probability	Probability: Event/Complement	Calculate the probability of an event and its complement
Data Analysis and Probability	Probability: Series of Events	Calculate the probability of a series of independent or dependent events
Data Analysis and Probability	Probability: Two Events	Calculate the probability of two events that are mutually exclusive or not mutually exclusive

DimensionL Literacy Content

**Indicates content contained in the Demo Curriculum Pack

Literacy: Level D

Topic	Skill Name	Skill Description
Language Conventions	Capitalization: Proper Names	Correctly capitalize proper names.
Language Conventions	Endmarks	Use periods, question marks, and exclamation marks.
Language Conventions	Apostrophes	Use apostrophes in contractions and possessives.
Language Conventions	Commas	Use commas in dates, addresses, and series.
Language Conventions	Spelling: Word Middles	Spell words with double consonants or abstract vowels in the middle.
Language Conventions	Spelling: Word Endings	Spell words that require changes before adding an ending (e.g., change <i>y</i> to <i>i</i>).
Language Conventions	Spelling: Consonant Groups	Spell words with complex consonant groups (e.g., <i>-dge</i> , <i>-ght</i>).
Language Conventions	Alphabetical Order	Put grade-level words in alphabetical order.
Parts of Speech	Adjectives	Use descriptive and limiting adjectives and articles.
Parts of Speech	Adverbs	Use adverbs, especially to indicate time and manner.
Parts of Speech	Conjunctions	Use coordinating conjunctions to combine subjects and predicates.
Parts of Speech	Nouns and Pronouns	Use singular and plural nouns and pronouns, including possessive pronouns, with correct pronoun-antecedent relationships and noun-pronoun agreement.
Parts of Speech	Prepositions	Use a preposition or prepositional phrase to provide detail or indicate time, location, or direction.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement in simple and compound sentences.
**Parts of Speech	Verb Tenses	Use consistent past, present, and future tenses.
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Person	Determine if the writer is using first, second, or third person.
Reading Process	Similes and Metaphors	Identify, construct, and interpret similes and metaphors.
Vocabulary	Homographs	Distinguish between words with different meanings that are spelled the same and sound the same.
Vocabulary	Homophones	Distinguish between words with different meanings that sound the same but are spelled differently.
Vocabulary	Antonyms in Context	Define antonyms from context.
Vocabulary	Common Prefixes	Define words using knowledge of common prefixes (e.g., <i>un-</i> , <i>pre-</i>).
Vocabulary	Common Suffixes	Define words using knowledge of common suffixes (e.g., <i>-er</i> , <i>-ful</i>).
Vocabulary	Synonyms in Context	Define synonyms from context.
**Writing Process	Sequence of Events	Put events or instructions in correct order.
Writing Process	Complete Sentences	Determine the completeness of simple and compound sentences.
Writing Process	Sentence Clarity	Ensure sentences are clear by eliminating redundancy and using correct word order.
Writing Process	Sentence Combining	Combine two sentences by forming a compound subject or compound predicate.

Literacy: Level E

Topic	Skill Name	Skill Description
Language Conventions	Capitalization: People/Places	Correctly capitalize proper names, initials, titles, languages, races, and nationalities.
Language Conventions	Apostrophes, Quotation Marks	Use apostrophes in contractions and possessives, and use quotation marks correctly.
Language Conventions	Commas and Colons	Punctuate compound sentences with commas and use colons correctly.
Language Conventions	Spelling: Common Patterns	Spell words with common patterns (e.g., the /sh/ sound, those with "i before e", <i>-ought</i>).
Language Conventions	Spelling: Grade-level Words	Spell words with double consonants or abstract vowels in the middle, words that require a change before adding an ending, and words with complex consonant groups.
Language Conventions	Spelling: Plurals	Spell irregular plurals (e.g., foot/feet) and plurals for words ending in the /f/ sound.
**Language Conventions	Spelling: Silent Letters	Spell words with silent letters (e.g., island, light).
Parts of Speech	Comparatives and Superlatives	Use descriptive adjectives, including their comparative and superlative forms.
Parts of Speech	Adverbs	Use adverbs, especially to indicate frequency or intensity.
Parts of Speech	Conjunctions	Use conjunctions, particularly correlative conjunctions (<i>either/or</i> , <i>neither/nor</i>) and coordinating conjunctions.
Parts of Speech	Nouns and Pronouns	Use singular and plural nouns and pronouns, including reflexive pronouns (e.g., myself, herself), with correct pronoun-antecedent relationships and noun-pronoun agreement.
Parts of Speech	Prepositions	Use a preposition or prepositional phrase to provide detail or indicate time, location, or direction.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement in simple and compound sentences.
Parts of Speech	Irregular Verbs	Conjugate irregular verbs such as <i>go/gone</i> and <i>come/came</i> .
Reading Process	Cause and Effect	Distinguish cause from effect in text.
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Similes and Metaphors	Identify, construct, and interpret similes and metaphors.
Reading Process	Summarize and Paraphrase	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor).
Vocabulary	Homographs	Distinguish between words with different meanings that are spelled the same and sound the same.
Vocabulary	Homophones	Distinguish between words with different meanings that sound the same but are spelled differently.
Vocabulary	Idioms and Sayings	Complete and interpret idioms and common sayings.
Vocabulary	Synonyms and Antonyms	Define synonyms and antonyms in context and from analogies.
Vocabulary	Words to Know	Determine the meaning of grade-level words in context.
Writing Process	Sequence of Events	Put events or instructions in correct order.
Writing Process	Complete Sentences	Determine the completeness of simple and compound sentences.
Writing Process	Sentence Clarity	Ensure sentences are clear by eliminating redundancy and using correct word order.
Writing Process	Sentence Combining	Combine two sentences by forming a compound subject or compound predicate.
**Writing Process	Transitions	Choose the correct time-order transition or a transition to indicate completeness.

Literacy: Level F

Topic	Skill Name	Skill Description
Language Conventions	Capitalization: Groups	Correctly capitalize organization names, initializations, and acronyms.
Language Conventions	Capitalization: People/Places	Correctly capitalize proper names, geographic names/places, religions, languages, races, and nationalities.
Language Conventions	Apostrophes	Use apostrophes in contractions and possessives.
Language Conventions	Commas, Colons, Quotations	Use colons in times (hours: minutes) and to introduce lists; use commas in lists. Use quotation marks correctly for direct quotes and for titles of plays, songs, and poems.
Language Conventions	Spelling: Grade-level Words	Spell common grade-level words.
Language Conventions	Spelling: Greek/Latin Roots	Spell grade-level vocabulary words with Greek or Latin roots.
Parts of Speech	Comparatives and Superlatives	Use adjectives, particularly descriptive adjectives related to origin (e.g., French doors) and their comparative and superlative forms.
Parts of Speech	Adverbs	Use adverbs, especially to indicate frequency or intensity.
Parts of Speech	Conjunctions	Use conjunctions, particularly subordinating conjunctions (e.g., while, because, although, if).
Parts of Speech	Nouns and Pronouns	Use singular and plural nouns and pronouns, including reflexive pronouns (e.g., myself, herself), with correct pronoun-antecedent relationships and noun-pronoun agreement.
Parts of Speech	Prepositional Phrases	Use a preposition or prepositional phrase to provide detail or indicate time, location, or direction.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement, particularly in compound sentences.
Parts of Speech	Irregular Verbs	Conjugate irregular verbs such as go/gone and come/come.
Reading Process	Cause and Effect	Distinguish cause from effect in text.
**Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Main Idea/Supporting Details	Identify the main idea of a grade-level text and the supporting details for that idea.
Reading Process	Summarize and Paraphrase	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor).
**Vocabulary	Dictionary Entries	Use a dictionary entry to determine the meaning, pronunciation, etymology, part of speech, and synonyms of an unknown word.
Vocabulary	Greek and Latin Roots	Define words using knowledge of Greek and Latin roots.
Vocabulary	Idioms and Sayings	Recognize, complete, and interpret idioms, adages, and sayings (e.g., <i>A bird in the hand is worth two in the bush.</i>).
Vocabulary	Synonyms and Antonyms	Define synonyms and antonyms in context and from analogies.
Vocabulary	Words to Know	Determine the meaning of grade-level words in context.
Writing Process	Sequence of Events	Put events or instructions in correct order.
Writing Process	Complete Sentences	Determine the completeness of simple and compound sentences.
Writing Process	Paragraph Clarity	Ensure paragraphs are clear by eliminating or reordering sentences.
Writing Process	Sentence Combining	Combine two sentences to create a compound or complex sentence.
Writing Process	Transitions	Choose the correct time-order transition or a transition to indicate completeness.

Literacy: Level G

Topic	Skill Name	Skill Description
Language Conventions	Capitalization: Orgs/Titles	Correctly capitalize organization names, abbreviations, initials, acronyms, and the titles of movies, books, and plays.
Language Conventions	Punctuation	Use colons, semicolons, and commas correctly. Correctly use and space quotation marks. Use parentheses, ellipses, and brackets to indicate interruptions, omissions, or incomplete sentences.
Language Conventions	Spelling: Grade-level Words	Spell common grade-level words.
Language Conventions	Spelling: Greek/Latin Roots	Spell grade-level vocabulary words with Greek or Latin roots.
Parts of Speech	Comparatives and Superlatives	Use adjectives, particularly predicate adjectives and their comparative and superlative forms.
Parts of Speech	Conjunctions	Use conjunctions, including conjunctive adverbs (e.g., furthermore, indeed), subordinating conjunctions (e.g., while, if, because), and coordinating conjunctions.
Parts of Speech	Pronouns	Use pronouns, particularly indefinite pronouns (e.g., all, both, nothing), with correct pronoun-antecedent relationships and noun-pronoun agreement.
**Parts of Speech	Prepositional Phrases	Use a preposition or prepositional phrase to provide detail or indicate time, location, or direction.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement, including with non-count nouns, particularly in compound and complex sentences.
Parts of Speech	Irregular Verbs, Passive Voice	Use irregular verbs in active and passive voice.
Reading Process	Cause and Effect	In multi-sentence text, distinguish cause from effect and identify instances of fallacious reasoning (e.g., "The street was wet, so Sam knew it had been raining.").
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Main Idea/Supporting Details	Identify the main idea of a grade-level text and the supporting details for that idea.
Reading Process	Denote and Connote Meaning	Distinguish between the denotative and connotative meaning of a word or choose the best word based on a particular connotation.
Reading Process	Summarize and Paraphrase	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor).
Vocabulary	Dictionary Entries	Use a dictionary entry to determine the meaning, pronunciation, etymology, part of speech, and synonyms of an unknown word.
Vocabulary	Analogies	Complete analogies that describe whole-to-part or part-to-whole relationships.
Vocabulary	Foreign Words and Phrases	Use and define foreign words and phrases commonly found in written English.
Vocabulary	Multiple-meaning Words	Determine the meaning of grade-level multiple-meaning words in context.
**Vocabulary	Words to Know	Determine the meaning of grade-level words in context, especially in terms of cause/effect or compare/contrast.
Writing Process	Sequence of Events	Put events or instructions in logical order.
Writing Process	Complete Sentences	Ensure that simple and compound sentences are complete, accurate, parallel, and employ consistent tense.
Writing Process	Paragraph Clarity	Ensure paragraphs are clear by eliminating or reordering sentences.
Writing Process	Sentence Combining	Analyze text and gain writing clarity by combining sentences.
Writing Process	Transitions	Use transitions to indicate organization and order in text.

Literacy: Level H

Topic	Skill Name	Skill Description
Language Conventions	Capitalization	Correctly capitalize words, including regional names (e.g., the Pacific Northwest) and historical events (e.g., the Battle of Waterloo) and documents (e.g., the Constitution).
Language Conventions	Punctuation	Use commas to set off participial phrases, colons to begin a list, semicolons to join independent clauses, hyphens for emphasis, and apostrophes for possessives. Use parentheses, ellipses, and brackets.
Language Conventions	Spelling: Grade-level Words	Spell common grade-level words.
Language Conventions	Spelling: Greek/Latin Roots	Spell grade-level vocabulary words with Greek or Latin roots.
Parts of Speech	Comparatives and Superlatives	Use adjectives and their comparative and superlative forms.
Parts of Speech	Conjunctions	Use conjunctions, including conjunctive adverbs (e.g., furthermore, indeed), subordinating conjunctions (e.g., while, if, because), and coordinating conjunctions.
Parts of Speech	Pronouns	Use pronouns, particularly relative pronouns (e.g., that, whoever, which, whom), with correct pronoun-antecedent relationships and noun-pronoun agreement.
Parts of Speech	Phrases and Clauses	Use adverbial and adjectival phrases and clauses and appositives correctly.
Parts of Speech	Prepositional Phrases	Use a preposition or prepositional phrase, paying particular attention to its impact on subject-verb agreement.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement, particularly in compound and complex sentences.
Parts of Speech	Verbs and Participles	Correctly use perfect (e.g., has gone) and progressive (e.g., is going) verb tenses and participles.
Reading Process	Cause and Effect	In multi-sentence text, distinguish cause from effect and identify instances of fallacious reasoning (e.g., "The street was wet, so Sam knew it had been raining.").
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
**Reading Process	Main Idea/Supporting Details	Identify the main idea of a grade-level text and the supporting details for that idea.
Reading Process	Denote and Connote Meaning	Distinguish between the denotative and connotative meaning of a word or choose the best word based on a particular connotation.
Reading Process	Summarize, Paraphrase, Infer	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor), and make logical inferences from text.
Vocabulary	Dictionary Entries	Use a dictionary entry to determine the meaning, pronunciation, etymology, part of speech, and synonyms of an unknown word.
Vocabulary	Analogies	Complete analogies that describe whole-to-part or part-to-whole relationships.
Vocabulary	Foreign Words and Phrases	Use and define foreign words and phrases commonly found in English writing, with an emphasis on Latin and Greek origins.
Vocabulary	Multiple-meaning Words	Determine the meaning of grade-level multiple-meaning words in context.
Vocabulary	Words to Know	Determine the meaning of ambiguous or unfamiliar words in context, especially in terms of connotation and denotation.
Writing Process	Sequence of Events	Put events or instructions in logical order.
Writing Process	Coherent Transitions	Connect two sentences in a way that best demonstrates their intended relationship.
Writing Process	Complete Sentences	Ensure that simple, compound, and complex sentences are complete, accurate, parallel, and employ consistent tense.
**Writing Process	Paragraph Clarity	Ensure paragraphs are clear by eliminating or reordering sentences.
Writing Process	Sentence Combining	Analyze text and gain writing clarity by combining sentences.

Literacy: Level I

Topic	Skill Name	Skill Description
Language Conventions	Capitalization	Correctly capitalize words, including proper adjectives (e.g., French doors) and academic course titles (e.g., Algebra II).
Language Conventions	Punctuation	Punctuate complex sentences, including using commas after introductory clauses and correctly placing colons, semicolons, brackets, parentheses, hyphens, and ellipses.
Language Conventions	Spelling: Foreign Roots	Spell grade-level vocabulary words with foreign roots.
Language Conventions	Spelling: Grade-level Words	Spell common grade-level words.
Parts of Speech	Comparatives and Superlatives	Use adjectives and their comparative and superlative forms.
Parts of Speech	Conjunctions	Use conjunctions, including conjunctive adverbs (e.g., furthermore, indeed), subordinating conjunctions (e.g., while, if, because), and coordinating conjunctions.
Parts of Speech	Pronouns	Use pronouns, particularly relative pronouns (e.g., that, whoever, which, whom), with correct pronoun-antecedent relationships and noun-pronoun agreement.
Parts of Speech	Phrases and Clauses	Use adverbial and adjectival phrases and clauses and appositives correctly.
Parts of Speech	Prepositional Phrases	Use a preposition or prepositional phrase, paying particular attention to its impact on subject-verb agreement.
**Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement, particularly in compound and complex sentences.
Parts of Speech	Verbs and Participles	Correctly use perfect (e.g., has gone) and progressive (e.g., is going) verb tenses and participles.
Reading Process	Cause and Effect	In multi-sentence text, distinguish cause from effect and identify instances of fallacious reasoning (e.g., "The street was wet, so Sam knew it had been raining.").
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Main Idea/Supporting Details	Identify the main idea of a grade-level text and the supporting details for that idea.
**Reading Process	Denote and Connote Meaning	Distinguish between the denotative and connotative meaning of a word or choose the best word based on a particular connotation.
Reading Process	Summarize, Paraphrase, Infer	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor), and make logical inferences from text.
Vocabulary	Dictionary Entries	Use a dictionary entry to determine the meaning, pronunciation, etymology, part of speech, and synonyms of an unknown word.
Vocabulary	Analogies	Complete analogies that describe a functional (e.g., drive:car as fly:plane) or descriptive (e.g., crunchy:apple as soft:banana) relationship.
Vocabulary	Foreign Words and Phrases	Use and define foreign words and phrases commonly found in written English.
Vocabulary	Multiple-meaning Words	Determine the meaning of grade-level multiple-meaning words in context.
Vocabulary	Words to Know	Determine the meaning of ambiguous or unfamiliar words in context, especially in terms of connotation and denotation.
Writing Process	Sequence of Events	Put events or instructions in logical order.
Writing Process	Coherent Transitions	Connect two sentences in a way that best demonstrates their intended relationship.
Writing Process	Complete Sentences	Ensure that simple, compound, and complex sentences are complete, accurate, parallel, and employ consistent tense.
Writing Process	Paragraph Clarity	Ensure paragraphs are clear by eliminating or reordering sentences.
Writing Process	Sentence Combining	Analyze text and gain writing clarity by combining sentences.

Literacy: Level J

Topic	Skill Name	Skill Description
Language Conventions	Capitalization	Correctly capitalize words, including proper adjectives (e.g., French doors) and academic course titles (e.g., Algebra II).
**Language Conventions	Punctuation	Use sophisticated punctuation, including quotation marks around ironic or sarcastic words or phrases, commas in phrases and clauses, and dashes to offset parenthetical information.
Language Conventions	Spelling: Foreign Roots	Spell grade-level vocabulary words with foreign roots.
Language Conventions	Spelling: Grade-level Words	Spell common grade-level words.
Parts of Speech	Comparatives and Superlatives	Use adjectives and their comparative and superlative forms.
Parts of Speech	Conjunctions	Use conjunctions, including conjunctive adverbs (e.g., furthermore, indeed), subordinating conjunctions (e.g., while, if, because), and coordinating conjunctions.
Parts of Speech	Pronouns	Use pronouns, including ones in indefinite, nominative, and objective cases, and reciprocal pronouns (e.g., each other, one another), with correct pronoun-antecedent relationships and noun-pronoun agreement.
**Parts of Speech	Phrases and Clauses	Use restrictive and nonrestrictive relative clauses, including those in the subjunctive mood.
Parts of Speech	Prepositional Phrases	Use a preposition or prepositional phrase, paying particular attention to its impact on subject-verb agreement.
Parts of Speech	Subject-Verb Agreement	Ensure subject-verb agreement, particularly in compound and complex sentences.
Parts of Speech	Verbs and Verbals	Correctly use complex active and passive tenses, and various verbals (e.g., participles, infinitive, gerunds).
Reading Process	Cause and Effect	In more sophisticated text, distinguish cause from effect and identify instances of fallacious reasoning (e.g., "The street was wet, so Sam knew it had been raining.").
Reading Process	Fact vs. Opinion	Distinguish fact from opinion in grade-level text.
Reading Process	Main Idea/Supporting Details	Identify the main idea of a grade-level text and the supporting details for that idea.
Reading Process	Denote and Connote Meaning	Distinguish between the denotative and connotative meaning of a word or choose the best word based on a particular connotation.
Reading Process	Summarize, Paraphrase, Infer	Summarize or paraphrase text, including figurative language (e.g., symbolism, imagery, metaphor), and make logical inferences from text.
Vocabulary	Dictionary Entries	Use a dictionary entry to determine the meaning, pronunciation, etymology, part of speech, and synonyms of an unknown word.
Vocabulary	Analogies	Complete analogies that describe a functional (e.g., drive:car as fly:plane) or descriptive (e.g., crunchy:apple as soft:banana) relationship.
Vocabulary	Foreign Words and Phrases	Use and define foreign words and phrases commonly found in written English.
Vocabulary	Multiple-meaning Words	Determine the meaning of grade-level multiple-meaning words in context.
Vocabulary	Words to Know	Determine the meaning of grade-level words in context, especially technical academic words from a variety of content areas.
Writing Process	Sequence of Events	Put events or instructions in logical order.
Writing Process	Coherent Transitions	Connect two sentences in a way that best demonstrates their intended relationship.
Writing Process	Complete Sentences	Ensure that simple, compound, and complex sentences are complete, accurate, parallel, and employ consistent tense.
Writing Process	Paragraph Clarity	Ensure paragraphs are clear by eliminating or reordering sentences.
Writing Process	Sentence Combining	Analyze text and gain writing clarity by combining sentences.