

Measures of Academic Progress (MAP) Virginia Primary Grades State-Aligned Version 1

The NWEA Goal Structure is a document that represents the content and structure of a state’s standards documents. Goal structures are created through an alignment process that links state standards documents to the NWEA item bank. The MAP tests and associated reports for teachers and students are based upon this structure and alignment.

The alignment process begins with a thorough review of a state’s standards documents by NWEA’s curriculum specialists. The general goal areas or strands within a state’s standards that appear across grade levels become the goals in the goal structure (indicated below as bold). Areas in a state’s standards documents that are determined to be sub-domains of the goals/strands become the sub-goals in the goal structure (indented under each goal below).

Goal and sub-goal names from the Goal Structure are shortened for technical reasons. Report Names are shortened further to accommodate report specifications.

Mathematics MPG Expanded Goal Structure	Mathematics MPG Goal Structure	Mathematics MPG Report Names
Number and Number Sense	Number and Number Sense	Number and Number Sense
Whole number concepts, place value and number patterns: Compare groups of objects using the terms more, fewer, or same, using the concept of one-to-one correspondence; count groups of objects and select the corresponding numeral; identify and write the ordinal numbers; count forward by ones, twos, fives, and tens and backward by ones and tens; read and write six-digit numerals and identify the place value and value of each digit; compare and round whole numbers; recognize and use the inverse relationships between addition/subtraction and multiplication/division to complete basic fact sentences and solve problems.	Whole Number Concepts	

Measures of Academic Progress (MAP) Virginia Primary Grades State-Aligned Version 1

Mathematics MPG Expanded Goal Structure	Mathematics MPG Goal Structure	Mathematics MPG Report Names
<p>Fraction Concepts: Identify parts of a set that represent fractions for halves, thirds, fourths, sixths, eighths, and tenths; model fractions including mixed numbers; name and write fractions represented by a model; compare unit fractions for halves, thirds, fourths, sixths, eights, and tenths; compare fractions having like and unlike denominators, using words and symbols.</p>	<p>Fraction Concepts</p>	
<p>Computation and Estimation</p>	<p>Computation and Estimation</p>	<p>Computation and Estimation</p>
<p>Whole number and fraction operations, and number relationships: Model adding and subtracting whole numbers using concrete objects; recall basic addition and related subtraction facts; estimate or solve single-step and multistep problems involving the sum or difference of two whole numbers, with or without regrouping; recognize the inverse relationship between addition and subtraction; recall multiplication facts, and the corresponding division facts; represent multiplication and division, using area, set, and number line models; add and subtract proper fractions having like denominators.</p>	<p>Whole Numbers and Fractions: Operations</p>	
<p>Patterns, Functions, and Algebra</p>	<p>Patterns, Functions, and Algebra</p>	<p>Algebra</p>
<p>Attributes and patterning: Sort and classify concrete objects according to one or more attributes; use patterns to predict relationships between objects; identify, describe, create, and extend a wide variety of patterns including growing and repeating patterns; recognize and describe a variety of patterns formed using numbers, tables, and pictures, and extend the patterns, using the same or different forms.</p>	<p>Attributes and Patterning</p>	

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<p>Numerical sentences and property concepts: Recognize and demonstrate the meaning of equality by recognizing that the symbol “=” in an equation indicates equivalent quantities; solve problems by completing numerical sentences; create story problems using the numerical sentences; investigate and identify examples of the identity and commutative properties for addition and multiplication.</p>	<p>Numerical Sentences and Property Concepts</p>	
<p>Probability and Statistics</p>	<p>Probability and Statistics</p>	<p>Probability and Statistics</p>
<p>Data collection, display, and applications: Collect, organize, display, and interpret data from a variety of graphs; construct picture graphs, pictographs, bar graphs, and line plots; analyze, read, compare, and interpret data displayed in picture graphs, pictographs, bar graphs, and line plots; collect and organize data using tables, picture graphs, object graphs, pictographs, line plots, and bar graphs and answer questions related to the data.</p>	<p>Collection and Application of Data</p>	
<p>Chance and outcomes: Use data from experiments to predict outcomes when the experiment is repeated; investigate and describe the concept of probability as chance and list possible results of a given situation.</p>	<p>Chance and Outcomes</p>	

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Measurement and Geometry	Measurement and Geometry	Measurement and Geometry
U.S. Customary and metric units, instruments and attributes, nonstandard measurement, volume, linear measurement, weight/mass, area, and perimeter: Identify the instruments used to measure length, weight, and capacity; compare two objects or events, using direct comparisons of nonstandard units of measure; use non-standard, U.S. Customary, and metric units to measure, compare and estimate length, weight/mass, and volume; estimate and measure area and perimeter; count the number of square units needed to cover a given surface in order to determine area.	Volume, Linear, Weight/Mass, Area, and Perimeter	
Time, money and temperature: Tell time to the nearest minute, using analog and digital clocks; use appropriate vocabulary for calendar and time; identify equivalent periods of time; determine elapsed time in one-hour increments; determine the value of a collection of bills and coins, compare the value of the bills and coins, and make change; compare temperatures and read temperature to the nearest degree from a Celsius thermometer and a Fahrenheit thermometer.	Time, Money, and Temperature	
Characteristics of plane and solid figures: Match, sort, identify, describe, compare, and contrast characteristics of plane and solid geometric figures; describe the location of one object relative to another; model and describe objects in the environment as geometric shapes; identify representations of points, lines, line segments, rays, and angles; identify figures with at least one line of symmetry; identify and describe congruent and noncongruent plane figures.	Plane and Solid Figures	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
Oral Language; Phonological Awareness; Units of Speech	Oral Language; Phonological Awareness; Units of Speech	Oral Language: Phon Awareness
Use complete sentences that include subject, verb, and object; Use single words to label objects; Use words to describe/name people, places, things, location, size, color, and shape; Use words to describe/name actions.	Oral language	
Identify words that rhyme; Detect beginning and ending sounds; Count phonemes; Blend and segment one-syllable words; Add or delete phonemes to make new words; Blend and segment multisyllabic words.	Phonological Awareness: Units of Speech	
Phonetic Principles and Word Analysis	Phonetic Principles and Word Analysis	Phonetic Prin & Word Analysis
Identify uppercase and lowercase letters; Match consonant, short vowel, and initial consonant digraph sounds to appropriate letters; Identify beginning consonant and ending sounds; Use knowledge of consonants, consonant blends, consonant digraphs, short, long, r-controlled vowel patterns, regular and irregular vowel patterns, and word patterns to decode words; Blend beginning, middle, and ending sounds to recognize and read words; Read compound words; Decode regular multisyllabic words.	Apply Phonetics, Word Analysis	
Read concrete words, sight words, and high-frequency words.	Sight words	

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Reading	Reading	Reading
<p>Identify the front, back cover, and title page of a book, and where reading begins on a page; Identify the location of the title of a book; Distinguish between print and pictures; Read from left to right and from top to bottom; Identify letters, words, sentences, and ending punctuation; Identify common signs.</p>	<p>Organization and Meaning of Print</p>	
<p>Use words, phrases, sentences, and information to read words; Use knowledge of homophones; Use knowledge of roots, affixes, synonyms, and antonyms; Use context and text clues to clarify meaning of unfamiliar words; Use word reference resources including the glossary, dictionary, and thesaurus; Discuss meanings of words.</p>	<p>Vocabulary</p>	
<p>Identify what an author and illustrator do; Make predictions; Ask and answer who, what, when, where, why, and how questions; Locate information to answer questions; Describe characters, setting, and important events in fiction and poetry; Compare and contrast settings, characters, and events; Identify the author's purpose; Summarize stories and events with beginning, middle, and end in the correct sequence; Identify the problem and solution; Identify the main idea or theme; Draw conclusions; Identify supporting details; Differentiate between fiction and nonfiction.</p>	<p>Fictional Texts and Poetry</p>	
<p>Use pictures to identify topic and make predictions; Make and confirm predictions about the main idea; Identify the author's purpose; Identify text features; Draw conclusions based on text; Locate information to answer questions; Identify the main idea; Identify supporting details; Use table of contents, pictures, captions indices, and charts; Use knowledge of alphabetical order; Use dictionaries, glossaries, and indices</p>	<p>Nonfiction Texts and Reference Materials</p>	



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Writing	Writing	Writing
Use prewriting strategies; Write a paragraph on the same topic; Organize writing to include a beginning, middle, and end for narrative and expository writing; Revise by adding descriptive words when writing about people, places, things, and events; Revise writing for clarity.	Writing purposes	
Recognize complete sentences; Use singular and plural nouns and pronouns; Use adjectives, past and present verb tense; Use transition words.	Grammar	
Print uppercase and lowercase letters of the alphabet; Begin sentences with a capital letter; Punctuate declarative, interrogative, and exclamatory sentences; Capitalize all proper nouns and the word "I"; Use apostrophes in contractions with pronouns and in possessives; Use contractions and singular possessives; Use commas in a simple series and the salutation and closing of a letter; Use simple abbreviations; Spell words correctly.	Capitalization, Punctuation, and Spelling	