

Measures of Academic Progress (MAP) Maryland State-Aligned Version 3

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 to create the headings in DesCartes. Report Names are shortened further to accommodate report specifications.

Mathematics 2-5 Goal Structure	Mathematics 2-5 DesCartes	Mathematics 2-5 Report Names
Knowledge of Algebra, Patterns, and Functions: Students will algebraically represent, model, analyze, or solve mathematical or real-world problems involving patterns or functional relationships	Algebra, Patterns, and Functions	Patterns and Functions
Patterns and functions: identify, describe, extend, and create numeric patterns and functions	Patterns and Functions	
Expressions, equations, and inequalities: write and identify expressions; identify, write, solve, and apply equations and inequalities	Expressions, Equations, and Inequalities	
Numeric and graphic representations of relationships: locate points on a number line and in a coordinate plane	Numeric and Graphic Representations	
Knowledge of Geometry: Students will apply the properties of one-, two, or three-dimensional geometric figures to describe, reason, or solve problems about shape, size, position, or motion of objects	Geometry	Geometry



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Plane and solid geometric figures: analyze the properties of plane and solid geometric figures; analyze geometric relationships	Plane and Solid Geometric Figures	
Congruence, similarity, symmetry, and transformations: analyze congruent and similar figures; identify and describe the results of translations, rotations, and reflections	Congruence, Similarity, and Transformations	
Knowledge of Measurement: Students will identify attributes, units, or systems of measurements or apply a variety of techniques, formulas, tools or technology for determining measurements	Measurement	Measurement
Measurement units and tools: read and measure in customary and metric units; select and use appropriate measurement tools	Measurement Units and Tools	
Applications in measurement: estimate and apply measurement formulas; calculate equivalent measurements	Applications in Measurement	
Knowledge of Statistics and Probability: Students will collect, organize, display, analyze, or interpret data to make decisions or predictions. Students will use experimental methods or theoretical reasoning to determine probabilities to make predictions or solve problems about events whose outcomes involve random variation	Statistics and Probability	Statistics and Probability
Data displays: collect, organize, and display data	Data Displays	
Data analysis: describe and analyze a set of data	Data Analysis	
Probability: determine a sample space and calculate the probability of a simple event	Probability	
Knowledge of Number Relationships and Computation: Students will describe, represent, or apply numbers or their relationships or will estimate or compute using mental strategies, paper/pencil or technology	Number Relationships and Computation	Number and Computation
Number and place value: apply knowledge of whole numbers, decimals, fractions, and place value*	Number and Place Value	
Number theory: apply number relationships	Number Theory	



Computation: add and subtract whole numbers, decimals, and fractions*	Computation: Addition and Subtraction	
Computation: multiply and divide whole numbers and decimals*	Computation: Multiplication and Division	
Estimation: estimate using whole numbers and decimals*	Estimation	

*Denotes that calculator use is not permitted in this goal or sub-goal of the test.

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Mathematics 6+ Goal Structure	Mathematics 6+ DesCartes	Mathematics 6+ Report Names
Knowledge of Algebra, Patterns, and Functions: Students will algebraically represent, model, analyze, or solve mathematical or real-world problems involving patterns or functional relationships	Algebra, Patterns, and Functions	Algebra and Functions
Patterns and functions: recognize, describe and/or extend patterns and functional relationships that are expressed numerically, algebraically, and/or geometrically	Patterns and Functions	
Expressions, equations, and inequalities: write and solve equivalent forms of equations, inequalities, and systems of equations; perform operations on algebraic expressions	Expressions, Equations, and Inequalities	
Numeric and graphic representations of relationships: identify linear and nonlinear functions expressed numerically, algebraically, and graphically	Numeric and Graphic Representations	
Knowledge of Geometry: Students will apply the properties of one-, two-, or three-dimensional geometric figures to describe, reason, or solve problems about shape, size, position, or motion of objects	Geometry	Geometry
Plane and solid geometric figures: analyze the properties of geometric figures	Plane and Solid Geometric Figures	
Congruence, similarity, symmetry, and transformations: identify and/or verify congruent and similar figures and/or apply equality or proportionality of their corresponding parts; apply properties and relationships from transformational geometry to problem situations	Congruence, Similarity, and Transformations	



Knowledge of Measurement: Students will identify attributes, units, or systems of measurements or apply a variety of techniques, formulas, tools or technology for determining measurements	Measurement	Measurement
Measurement units and tools: use techniques of measurement to estimate, calculate, and/or compare perimeter, circumference, area, volume, and/or surface area of two- and three- dimensional figures and their parts	Measurement Units and Tools	
Applications in measurement: use various methods of indirect measure including trigonometric ratios, scale drawings, models, and mathematical formulas to solve problems in real-world contexts	Applications in Measurement	
Knowledge of Statistics and Probability: Students will collect, organize, display, analyze, or interpret data to make decisions or predictions. Students will use experimental methods or theoretical reasoning to determine probabilities to make predictions or solve problems about events whose outcomes involve random variation	Statistics and Probability	Statistics and Probability
Data displays: organize and display data	Data Displays	
Data analysis: describe data, make predictions, and draw inferences	Data Analysis	
Probability: calculate theoretical probability or use simulations or statistical inferences from data to estimate the probability of an event	Probability	
Knowledge of Number Relationships and Computation: Students will describe, represent, or apply numbers or their relationships or will estimate or compute using mental strategies, paper/pencil or technology	Number Relationships and Computation	Number and Computation
Number and place value: read, write, and represent real numbers in a variety of forms including exponential and radical*	Number and Place Value	
Number theory: apply number relationships	Number Theory	
Computation: addition and subtraction; add and subtract real numbers*	Computation: Addition and Subtraction	



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Computation: multiplication and division; multiply and divide real numbers*	Computation: Multiplication and Division	
Computation: advanced; perform computations with real numbers including powers, roots, ratios, proportions, percents, scientific notation, and absolute value	Computation: Advanced	
Estimation: select and apply computational strategies, including estimation and mathematical properties, to solve problems involving real numbers*	Estimation	

*Denotes that calculator use is not permitted in this goal or sub-goal of the test.

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Reading Goal Structure	Reading DesCartes	Reading Report Names
General Reading Processes: Phonics and Vocabulary	General Reading Processes: Phonics and Vocabulary	Gen Reading: Processes
<p>Phonics and conceptual understanding of new words: identify letters and their corresponding sounds; use a variety of phonetic skills to read unfamiliar words; identify digraphs, diphthongs; recognize and apply short vowels, long vowels, and "y" as a vowel; decode words with letter combinations, such as consonant digraphs, blends, and special vowel patterns; classify and categorize increasingly complex words into sets and groups; identify common antonyms, synonyms, and homophones to increase vocabulary skills</p>	<p>Phonics and Conceptual Understanding of New Words</p>	
<p>Understand, acquire, and use new vocabulary: use context to determine the meanings of words; use word structure to determine meanings of words: contractions, compound words, root/base words, prefixes, suffixes</p>	<p>Understand, Acquire, and Use New Vocabulary</p>	
Comprehension of Informational Text: Varieties of Text, Text Features, and Organizational Patterns	Informational Text: Varieties, Features, Patterns	Inform: Var, Feat, Patterns
<p>Varieties of informational text and text features: apply and refine comprehension skills by selecting, reading, and analyzing a variety of informational texts; read, use, and identify the characteristics of nonfiction materials, primary and secondary sources of academic information, functional, workplace, and other real-world documents; analyze text features to facilitate and extend understanding of informational texts; use and analyze print features, graphic aids, informational aids, organizational aids that contribute to meaning</p>	<p>Varieties of Informational Text and Text Features</p>	



<p>Organizational patterns: apply knowledge of organizational patterns of informational text to facilitate understanding and analysis; identify and analyze the organizational patterns of texts; distinguish between fiction and nonfiction text; recognize sequential and chronological order, cause/effect relationships, similarities and differences, and description</p>	<p>Organizational Patterns</p>	
<p>Comprehension of Informational Text: Strategies to Demonstrate Understanding, Important Ideas, Purposeful Use of Language, and Critical Reading</p>	<p>Informational Text: Understanding, Ideas, Language</p>	<p>Inform: Ideas, Lang</p>
<p>Strategies to demonstrate understanding: identify and explain information directly stated in the text; draw inferences and/or conclusions and make generalizations; confirm, refute, or make predictions and form new ideas</p>	<p>Strategies to Demonstrate Understanding</p>	
<p>Important ideas, purposeful use of language, and critical reading: determine and analyze important ideas and messages in informational texts; identify, explain and analyze the author's/text's purpose and intended audience; identify, explain and analyze the author's opinion, argument, viewpoint, or perspective; state and support main ideas and messages; summarize or paraphrase; identify and explain information not related to the main idea; synthesize ideas from text; distinguish between a fact and an opinion; identify, explain, and analyze language and other techniques intended to affect the reader's feelings, appeal to emotion, or persuade the reader; analyze the text and its information for reliability; determine and explain whether or not the author's argument or position is presented fairly; analyze the author's argument or position for clarity and/or bias</p>	<p>Ideas, Use of Language, Critical Reading</p>	

Comprehension of Literary Text: Text Features and Elements of Narratives	Literary Text: Features and Elements	Lit: Features and Elements
Analyze and evaluate text features: identify and explain how organizational aids, graphic aids, and informational aids contribute to meaning; analyze text features that contribute to meaning	Analyze and Evaluate Text Features	
Identify and distinguish among types of narrative texts	Types of Narrative Texts	
Elements of narrative texts: identify, explain and analyze the conflict and its role in advancing the plot; identify, describe and analyze details that provide information about the setting, the mood created by the setting, and the role the setting plays in the text; identify the characters and analyze characterization; identify, explain and analyze relationships between and among characters, setting, and events, and the actions of the characters that serve to advance the plot; analyze conflicts that motivate characters and those that advance the plot; identify, explain and analyze the author's approach to issues of time in a narrative and the point of view and its effect on meaning	Elements of Narrative Texts	
Comprehension of Literary Text: Strategies to Demonstrate Understanding, Important Ideas, and Purposeful Use of Language	Literary Text: Understanding, Ideas, Language	Lit: Ideas, Lang
Strategies to demonstrate understanding: identify and explain information directly stated in the text; draw inferences and/or conclusions and make generalizations; confirm, refute, or make predictions and form new ideas	Strategies to Demonstrate Understanding	
Analyze and interpret important ideas and messages in literary texts: summarize or paraphrase; identify, explain and analyze main ideas and universal themes	Analyze Important Ideas	

<p>Identify, describe, analyze and evaluate the author's purposeful use of language: identify, explain and analyze imagery that contributes to meaning and/or creates style and how repetition and exaggeration contribute to meaning; identify, explain, analyze and evaluate language choices that create tone; analyze the appropriateness of a particular tone; identify and explain how the use of dialogue contributes to a story; identify, explain, analyze and evaluate how specific language choices and figurative language contribute to meaning and create style</p>	<p>Use of Language</p>	
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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Writing: Composing Texts	Writing: Composing Texts	Writing: Composing
Prewriting and drafting: select, organize, and develop ideas appropriate to topic, audience, and purpose; complete an idea by providing topic, support, and concluding sentences; organize information logically; use techniques, such as graphic organizers to complete and clarify organizational structures; verify the effectiveness of paragraph development by modifying topic, support, and concluding sentences as necessary	Prewriting and Drafting	
Express personal ideas, inform, and persuade: compose to express personal ideas by experimenting with a variety of forms and techniques suited to topic, audience, and purpose; describe in prose and/or poetic forms to clarify, extend, or elaborate on ideas by using evocative language and appropriate organizational structure; compose to inform using relevant support and appropriate organizational structures; compose to persuade by supporting, modifying, or refuting a position, using effective rhetorical strategies	Express Personal Ideas, Inform, and Persuade	

Revising and editing: revise texts for clarity, completeness, and effectiveness; eliminate words and ideas that do not support the main idea; eliminate redundant and irrelevant words and ideas; clarify meaning by adding modifiers and sensory words within a sentence; clarify meaning by rearranging sentences within a text; vary sentence types and lengths to clarify and extend meaning, to demonstrate style, and to sustain audience interest; edit texts for effective and appropriate use of language and conventions, such as capitalization, punctuation, spelling, and pronunciation	Revising and Editing	
Writing: Language Choices, Effective Devices, and Locating and Using Information	Writing: Language Choices, Devices, Information	Writing: Lang Devices, Info
Language choices: use precise word choice, formal to informal, based on audience, situation, or purpose	Language Choices	
Effective devices and locating and using information: examine and use transitions; revise own text for word choice; explain how revisions in word choice and syntax affect meaning; identify, evaluate, and use appropriate sources of information on a given topic; use a recognized format for documentation	Effective Devices and Locating, Using Information	
Controlling Language: Grammar and Usage	Controlling Language: Grammar and Usage	Grammar and Usage
Grammar: identify and use parts of speech; consider the meaning, position, form, and function of words when identifying and using all grammatical concepts	Grammar	
Usage: comprehend and apply standard English usage in written language	Usage	
Controlling Language: Mechanics and Spelling	Controlling Language: Mechanics and Spelling	Mechanics and Spelling
Mechanics: apply standard English punctuation and capitalization in written language	Mechanics	
Spelling: apply conventional spelling in written language	Spelling	



