

Measures of Academic Progress (MAP) Mississippi 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
Number and Operations*	Number and Operations	Number and Operations
Relationships among whole numbers, integers, and non-negative rational numbers	Relationships Among Numbers	
Addition and subtraction of whole numbers and non-negative rational numbers	Addition and Subtraction	
Multiplication and division of whole numbers and non-negative rational numbers	Multiplication and Division	
Estimation of sums, differences, products, and quotients of whole numbers and non-negative rational numbers	Estimation	
Algebra	Algebra	Algebra
Patterns, number relationships, and functions	Patterns, Relationships, and Functions	
Properties of the basic operations, using algebraic symbols, and determining the value of variables in equations and inequalities	Properties, Equations, and Inequalities	

Geometry	Geometry	Geometry
Characteristics, properties, and relationships of two- and three-dimensional geometric shapes; congruence; and symmetry	Two- and Three- Dimensional Geometric Shapes	
Spatial relationships, transformations, and coordinate geometry	Spatial Relationships and Coordinate Geometry	
Measurement	Measurement	Measurement
Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion within systems for weight/mass, capacity, angles, length, and temperature	Weight, Capacity, Angles, Length, Temperature	
Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion of time	Time	
Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion within systems for perimeter, area, and volume	Perimeter, Area, and Volume	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
Collection, organization, display, interpretation, and analysis of data in bar graphs, line graphs, line plots, stem-and-leaf plots, histograms, box-and-whisker plots, pictographs, tables, and charts	Data Organization, Display, and Interpretation	
Analysis of data sets using the mean, median, mode, and range	Data Analysis: Mean, Median, Mode, and Range	
Analysis, prediction, and modeling of the number of different combinations of two or more objects and the relationship to multiplication	Combinations	

*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
Number and Operations	Number and Operations	Number and Operations
Relationships among real numbers*	Relationships Among Numbers	
Addition and subtraction of real numbers*	Addition and Subtraction	
Multiplication and division of real numbers*	Multiplication and Division	
Computation and problem solving using proportional reasoning; relationships among fractions, decimals, and percents; unit rate and unit price	Proportional Reasoning	
Computation and problem solving using powers, roots, scientific notation, and absolute value	Powers, Roots, and Absolute Value	
Estimation of sums, differences, products, and quotients of real numbers *	Estimation	
Algebra	Algebra	Algebra
Patterns, relations, and functions	Patterns, Relations, and Functions	
Application of properties to simplify algebraic expressions, solve linear equations and inequalities; principles of graphing	Expressions, Equations, Inequalities, Graphing	
Geometry	Geometry	Geometry
Characteristics, properties, and relationships of two- and three-dimensional geometric shapes; congruence; symmetry; similarity; the Pythagorean Theorem	Two- and Three- Dimensional Geometric Shapes	
Spatial relationships, transformations, and coordinate geometry	Coordinate Geometry and Transformations	
Measurement	Measurement	Measurement

Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion within systems for weight/mass, capacity, angles, length, and temperature	Weight, Capacity, Angles, Length, Temperature	
Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion of time	Time	
Appropriate units, tools, and techniques for estimation, measurement, comparison, and conversion within systems for perimeter, circumference, area, volume, and surface area	Perimeter, Area, Volume, and Surface Area	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
Collection, organization, display, interpretation, and analysis of data in bar graphs, line graphs, line plots, stem-and-leaf plots, histograms, box-and-whisker plots, pictographs, tables, and charts	Data Organization, Display, and Interpretation	
Analysis of data sets using the mean, median, mode, and range	Data Analysis: Mean, Median, Mode, and Range	
Determination of probabilities through experimentation, simulation, or calculation	Probability	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
Word Recognition and Vocabulary	Word Recognition and Vocabulary	Word Recog and Vocabulary
<p>Concepts about print, phonics, and word recognition skills: identify and use title page, title, author, illustrator, and table of contents of a book; matching words to print; distinguish between uppercase and lowercase letters; identify and count the number of syllables in a word; identify rhyming words; identify beginning, final, and medial sounds; distinguish short and long vowel sounds in words; match all consonant and short vowel sounds to the appropriate letters; read words derived from word families; continue to use knowledge of vowel digraphs, diphthongs, and r-controlled letter-sound correspondences to decode unknown words; identify and analyze compound words; identify and use contractions correctly</p>	<p>Concepts of Print, Phonics, and Word Recognition</p>	
<p>Roots and affixes: the student will apply knowledge of roots and affixes to infer meaning of unfamiliar words in novel texts</p>	<p>Roots and Affixes</p>	
<p>Word meanings, synonyms, antonyms, and homonyms: identify and begin to generate words into categories; the student will identify and use synonyms, antonyms, and homonyms</p>	<p>Word Meanings, Synonyms, Antonyms, and Homonyms</p>	
<p>Context and figurative language: the student will use context to determine the meanings of unfamiliar or multiple meaning words; the student will use context to determine the figurative meanings of words</p>	<p>Context and Figurative Language</p>	

<p>Comprehension: Text Features and Structures The student will apply knowledge of text features, parts of a book, and text structures to understand, gain information from, analyze, synthesize, or evaluate texts</p>	<p>Comprehension: Text Features and Structures</p>	<p>Text Features and Structures</p>
<p>Text features and text structures: parts of a book; text structures</p>	<p>Text Features and Text Structures</p>	
<p>Comprehension: Infer, Draw Conclusions, Synthesize, Predict The student will analyze text to infer, draw conclusions, synthesize, or evaluate information; the student will make inferences based on textual evidence of details, organization, and language to predict, draw conclusions, or determine author's purpose</p>	<p>Comprehension: Infer, Conclude, Predict</p>	<p>Infer, Predict, Conclude</p>
<p>Literal questions, main ideas, and sequential order: answer literal and simple inferential who, what, when, where, why, how, and what if questions; answer literal and inferential questions about main characters, setting, theme, and plot; identify the stated main idea or supporting details in a paragraph; identify and infer the main idea or topic in literary text, literary nonfiction, and informational text; identify the theme of a text; arrange in sequential order a listing of events found in narrative and/or informational text</p>	<p>Literal Questions, Main Ideas, Sequential Order</p>	
<p>Infer, draw conclusions, synthesize, predict: make inferences based on information from narrative and/or informational text; draw conclusions based on information from narrative and/or informational text; make a prediction about narrative or informational text and confirm or revise the prediction; identify and infer causes and effects in texts</p>	<p>Infer, Draw Conclusions, Synthesize, Predict</p>	

Summarize or paraphrase: the student will recognize an appropriate summary or paraphrasing of the events or ideas in text; retell a story; arrange in sequential order a listing of events found in narrative and/or informational text; write summaries that contain the main ideas of the reading selection and the most significant details	Summarize or Paraphrase	
Comprehension: Analyze or Interpret Literary and Informational Text	Comprehension: Analyze or Interpret Text	Analyze or Interpret Text
Characteristics of texts: literary text and literary non-fiction; short stories, novels, biographies, autobiographies, narrative essays; poetry; drama; informational texts	Characteristics of Texts	
Literary elements: the student will analyze literary elements in texts from a variety of genres; story elements; literary devices; sound devices; author's purpose	Literary Elements	
Persuasive techniques: the student will identify and analyze facts, opinions, or tools of persuasion; the student will recognize persuasive techniques such as propaganda and bias; distinguish between fact and opinion; identify and interpret tools of persuasion	Persuasive Techniques	

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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Express Ideas: Composing Process	Express Ideas: Composing Process	Composing Process
<p>Planning and drafting: plan for composing using a variety of strategies (e.g., brainstorming, drawing, graphic organizers, peer discussion, reading, viewing); determine audience; determine purpose; generate ideas; address prompt/topic; organize ideas; compose a clearly stated thesis; transfer thoughts from graphic organizers and simple outlines into paragraphs; formulate introduction, body, and conclusion; create paragraphs; use various sentence structures; use paraphrasing for reports and documented papers</p>	<p>Planning and Drafting</p>	
<p>Revising and editing: revise paragraphs for organization, to add details, to clarify ideas, and to improve coherence; revise selected drafts by adding, elaborating, deleting information and details, and rearranging text; use precise language; figurative language, stylistic devices; edit/proofread drafts to ensure standard usage, mechanics, spelling, and varied sentence structure and to correct errors</p>	<p>Revising and Editing</p>	
Express Ideas: Composing Texts	Express Ideas: Composing Texts	Composing Texts
<p>Descriptive and narrative texts: the student will compose descriptive texts using sensory details and vivid language; the student will incorporate descriptive details into texts; the student will compose narrative text with a clear beginning, middle, and end using specific details; utilizing effective organization, transitions, vivid word choices and specific supporting details, and with a clear problem and solution</p>	<p>Descriptive and Narrative Texts</p>	

Informative, persuasive texts and research: the student will compose informational text utilizing topic sentences, effective organization, transitions, vivid word choices, and specific supporting details, including but not limited to, texts containing chronological order, cause and effect, compare and contrast, informal problem and solution, or order of importance; the student will compose persuasive text with a clear problem and solution utilizing effective organization, transitions, vivid word choices, and specific supporting details; the student will compose texts in a variety of modes based on inquiry and research; locate sources (e.g., books, interviews, internet, reference materials) and gather relevant information from multiple sources; identify and paraphrase important information from sources; take notes on important information from sources	Informative, Persuasive Texts and Research	
Standard English Grammar	Standard English Grammar	Grammar
Nouns and pronouns	Nouns and Pronouns	
Verbs, verbals, and agreement: verbs; verb tense; subject verb agreement; infinitives, gerunds, and participles	Verbs, Verbals, and Agreement	
Conjunctions, prepositions, adjectives, and adverbs: subordinate and coordinate conjunctions; prepositions; adjectives; adverbs	Conjunctions, Prepositions, Adjectives, Adverbs	
Standard English Mechanics and Sentence Structure	Standard English Mechanics and Sentence Structure	Mechanics and Sentence Struc
Punctuation: end punctuation; common abbreviations; commas and semicolons; quotation marks; colons	Punctuation	
Capitalization	Capitalization	
Spelling	Spelling	

<p>Sentence structure: the student will apply knowledge of sentence structure in composing or editing to achieve a purpose; the student will manipulate sentence structure to achieve a purpose such as clarification, definition, or emphasis in composing or editing; analyze sentences to determine purpose (e.g., declarative, interrogative, exclamatory, imperative); analyze the structure of sentences (e.g., simple, compound, complex); compose simple, compound, and complex sentences; analyze sentences containing descriptive adjectives, adverbs, prepositional phrases, appositives and modifiers; compose sentences using descriptive adjectives, adverbs, prepositional phrases, appositives, and modifiers; parallel structure; appropriate subordination or coordination; correctly placed modifiers</p>	<p>Sentence Structure</p>	
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