

Measures of Academic Progress (MAP) New Mexico State-Aligned Version 4

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
Numbers and Operations	Numbers and Operations	Numbers and Operations
Whole numbers: represent, identify, and count*	Whole Numbers: Represent, Identify, and Count	
Whole numbers: compare, order, and round*	Whole Numbers: Compare, Order, and Round	
Fractions and decimals: represent and identify*	Fractions and Decimals: Represent and Identify	
Fractions and decimals: compare and order*	Fractions and Decimals: Compare and Order	
Integers: number sense*	Integers: Number Sense	
Number theory and properties	Number Theory and Properties	
Equivalence*	Equivalence	
Estimation*	Estimation	
Whole numbers: addition and subtraction*	Whole Numbers: Addition and Subtraction	
Whole numbers: multiplication and division*	Whole Numbers: Multiplication and Division	
Fractions, decimals: addition and subtraction*	Fractions, Decimals: Addition and Subtraction	
Percent, ratio and proportion	Percent, Ratio and Proportion	
Problem solving strategies: understand problems	Problem Solving Strategies: Understand Problems	

Problem solving strategies: represent problems	Problem Solving Strategies: Represent Problems	
Problem solving strategies: solution strategy	Problem Solving Strategies: Solution Strategy	
Problem solving strategies: verify results	Problem Solving Strategies: Verify Results	
Reasoning, logic, conjecture, and proofs	Reasoning, Logic, Conjecture, and Proofs	
Algebra	Algebra	Algebra
Patterns and sequences	Patterns and Sequences	
Expressions and equations	Expressions and Equations	
Geometry	Geometry	Geometry
2- and 3-D identification and classification	2- and 3-D Identification and Classification	
Symmetry and transformations	Symmetry and Transformations	
Similarity and congruence	Similarity and Congruence	
Coordinate grid system	Coordinate Grid System	
Measurement	Measurement	Measurement
Length, weight, mass, and capacity	Length, Weight, Mass, and Capacity	
Time, temperature, and money	Time, Temperature, and Money	
Perimeter, area, surface area, and volume	Perimeter, Area, Surface Area, and Volume	
Appropriate units, tools, and precision strategies	Appropriate Units, Tools, and Precision Strategies	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
Organize, read, and interpret graphs	Organize, Read, and Interpret Graphs	
Data collection and analysis	Data Collection and Analysis	
Probability	Probability	

*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
Numbers and Operations	Numbers and Operations	Numbers and Operations
Whole numbers: represent, identify, and count*	Whole Numbers: Represent, Identify, and Count	
Whole numbers: compare, order, and round*	Whole Numbers: Compare, Order, and Round	
Fractions and decimals: represent and identify*	Fractions and Decimals: Represent and Identify	
Fractions and decimals: compare and order*	Fractions and Decimals: Compare and Order	
Integers: number sense*	Integers, Rational, Real Numbers: Number Sense	
Number theory and properties	Number Theory and Properties	
Equivalence*	Equivalence	
Estimation*	Estimation	
Whole numbers: addition and subtraction*	Whole Numbers: Addition and Subtraction	
Whole numbers: multiplication and division*	Whole Numbers: Multiplication and Division	
Fractions, decimals: addition and subtraction*	Fractions, Decimals: Addition and Subtraction	
Fractions, decimals: multiplication and division*	Fractions, Decimals: Multiplication and Division	
Integers, rational, real numbers: computation	Integers, Rational, Real Numbers: Computation	
Percent, ratio and proportion	Percent, Ratio and Proportion	
Powers, roots, and scientific notation	Powers, Roots, Scientific Notation	
Problem solving strategies: understand problems	Problem Solving Strategies: Understand Problems	
Problem solving strategies: represent problems	Problem Solving Strategies: Represent Problems	
Problem solving strategies: solution strategy	Problem Solving Strategies: Solution Strategy	
Problem solving strategies: verify results	Problem Solving Strategies: Verify Results	



Reasoning, logic, conjecture, and proofs	Reasoning, Logic, Conjecture, and Proofs	
Algebra	Algebra	Algebra
Patterns and sequences	Patterns and Sequences	
Expressions	Expressions	
Equations and inequalities	Equations and Inequalities	
Graphs and graphing systems	Graphs and Graphing Systems	
Functions	Functions	
Geometry	Geometry	Geometry
2- and 3-D identification and classification	2- and 3-D Identification and Classification	
Symmetry and transformations	Symmetry and Transformations	
Similarity and congruence	Similarity and Congruence	
Pythagorean theorem, trigonometry, and the coordinate plane	Pythagorean Theorem, Trig, Coordinate Plane	
Measurement	Measurement	Measurement
Length, weight, mass, and capacity	Length, Weight, Mass, and Capacity	
Time, temperature, and money	Time, Temperature, and Money	
Angles, perimeter, and circumference	Angles, Perimeter, and Circumference	
Area, surface area, and volume	Area, Surface Area, and Volume	
Appropriate units, tools, and precision strategies	Appropriate Units, Tools, and Precision Strategies	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
Organize, read, and interpret graphs	Organize, Read, and Interpret Graphs	
Data collection and analysis	Data Collection and Analysis	
Probability	Probability	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
<p>Reading for Comprehension: Students will apply strategies and skills to comprehend information: Read, retell, and interpret information.</p>	<p>Reading: Retell and Interpret Information</p>	<p>Interpret Information</p>
<p>Interact with text to comprehend by: Making predictions; respond to informational materials by drawing inferences.</p>	<p>Make Predictions; Draw Inferences</p>	
<p>Interact with text to comprehend by: Locating information for a specific purpose; recall story details; use key words, indices, cross-references and letters on volumes to find information; use the various parts of a text to locate specific information (index, table of contents, glossary); summarize main idea(s); use strategies to comprehend text (e.g. paraphrase); respond to informational materials by: summarizing the information; interpret and synthesize information by: restating and summarizing information.</p>	<p>Locate and Summarize Information</p>	
<p>Reading for Comprehension: Students will apply strategies and skills to comprehend information: Demonstrate and apply critical thinking skills to comprehend and analyze information.</p>	<p>Reading: Critical Thinking Skills</p>	<p>Critical Thinking</p>
<p>Draw conclusions, make generalizations; demonstrate deductive and inductive reasoning by drawing logical conclusions; develop and apply appropriate criteria to evaluate the quality of communication by: drawing conclusions based on evidence, reasons, or relevant information.</p>	<p>Draw Conclusions</p>	

Make informed judgments about bias, propaganda, stereotyping, and media techniques; use critical thinking skills to evaluate text and multimedia by: determining purpose through exploring bias, apparent messages, emotional factors, or persuasive techniques and identifying and exploring the underlying assumptions of the author; identify examples of distortion and stereotype in literary works.	Bias, Persuasion, Author's Purpose/Assumptions	
Distinguish between fact and opinion.	Distinguish Between Fact and Opinion	
Reading for Comprehension: Students will apply strategies and skills to comprehend information: Acquire reading strategies which include phonics, vocabulary and comprehension; demonstrate competence in the skills and strategies of the reading process.	Reading: Phonics, Vocabulary, Main Idea, Genre	Vocabulary, Main Idea, Genre
Apply phonics and structural analysis to decode words; apply context clues to decode unknown words; use knowledge of context and vocabulary to understand text; apply enabling strategies and skills to read by: using word reference materials.	Phonics and Context Clues	
Identify the main ideas and significant details, and determine the correct sequence of events or information; identify the topic sentence in a reading selection; follow written directions for a procedure.	Main Idea, Details, Sequence; Follow Directions	
Independently apply the reading process and strategies to a variety of literary and informational texts and use the defining features and structures of those works to understand main elements, perspective, and style; respond to non-fiction, using interpretive, critical, and evaluative processes by considering the differences among genres.	Features/Structures of Text, Genre	

<p>Literature and Media: Students will use literature and media to develop an understanding of people, societies and the self: Identify and use the types of literature according to their purpose and function; Identify ideas and make connections among literary works.</p>	<p>Literature and Media</p>	<p>Literature and Media</p>
<p>Identify beginning, middle and end of a story; identify main conflict in a plot and describe how it is resolved; relate details, setting, action, and main character(s); identify conflict, rising action, and resolution of conflict in a literary work; increase fluency, comprehension, and insight through meaningful and comprehensive reading instruction by: interpreting text by explaining elements such as plot, theme, point of view, characterization, mood, and style; identify the various themes in literary works; respond to fiction, poetry, and drama using interpretive, critical and evaluative processes by: examining reasons for characters' actions; contrast the actions and motives of characters in literary works; identifying and examining characters' motives; making inferences and drawing conclusions about characters and events.</p>	<p>Literary Elements</p>	

<p>Increase fluency, comprehension, and insight through meaningful and comprehensive reading instruction by: discussing and analyzing the effects on texts of literary devices, such as figurative language, dialogue and flashback; determine how the use of literary devices, such as personification, metaphor, simile, and alliteration, convey the author's intent; describe how tone and meaning is conveyed in poetry and expository writing through word choice, figurative language, sentence structure, line length, punctuation, rhythm, repetition, and rhyme; identify the effect of literary devices such as figurative language, diction, dialogue, and description; identify significant literary devices to understand the author's meaning and perspective; respond to non-fiction, poetry, and drama using interpretive, critical and evaluative processes by: analyzing author's word choice and context; develop and apply appropriate criteria to evaluate the quality of communication by: using knowledge of language structure and literary techniques.</p>	<p>Literary Devices and Author's Word Choice</p>	
<p>Identify and discuss similarities and differences in events and characters across examples of literature and media; analyze cause and effect relationships, compare and contrast information, facts, characters, and objects.</p>	<p>Compare/Contrast, Cause/Effect</p>	

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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Writing for Expression: Students will communicate effectively through writing: Apply grammatical conventions to communicate.	Writing: Apply Grammatical Conventions	Grammatical Conventions
Use a variety of complete sentences in writing; use simple, compound, complex, and compound-complex sentences; use correct and varied sentence types and sentence openings; use knowledge of sentence patterns to control the relationship of ideas within and among the clauses of compound and complex sentences.	Use Correct and Varied Sentence Types and Patterns	
Identify and use correct grammar including subject/verb agreement, verb tenses, prepositions, and conjunctions, verbs that are often misused, verbs that agree with compound subjects, modifiers, the active and passive voice; identify and correctly use all parts of speech and sentence elements including control of verb tense, use of person, and use of phrase and clause elements in compound and complex sentences; use of pronouns; use infinitives and participles and antecedents, adjectives, adverbial forms, and coordination conjunctions.	Use Grammar, Parts of Speech, Sentence Elements	
Writing for Expression: Demonstrate control of Standard English through the correct use of punctuation, spelling, and capitalization. [Mechanics]	Writing: Punctuation, Spelling, and Capitalization	Mechanics
Use correct punctuation such as parentheses, commas, apostrophes, colons, quotation marks, hyphens, dashes, brackets, and semicolons; correctly punctuate sentences and avoid fragments and run-ons.	Use Correct Punctuation	
Use strategies for and correctly spell most commonly used words, frequently misspelled words, derivatives, roots, inflections, affixes, and syllable constructions.	Use Correct Spelling	

Use correct capitalization on names of proper nouns, magazines, newspapers, works of art, compositions, and quotations.	Use Correct Capitalization	
Writing for Expression: Demonstrate competence in the skills and strategies of the writing process.	Demonstrate Competence in the Writing Process	Writing Process
Use figurative, grammatical, metaphorical or rhetorical devices and language to inform, persuade, and convey meaning.	Use Language to Convey Meaning	
Use knowledge of subject and purpose to select language that is precise, engaging, and well suited to topic and audience.	Use Knowledge of Subject, Purpose, Audience	
Revise writing for word choice, organization, point of view, and transitions, edit for clarity, tone, voice, and consistency.	Revise Writing and Edit	
Use pre-writing and planning strategies to generate topics and organize ideas.	Use Pre-Writing and Planning Strategies	
Use organizational patterns in the writing process to convey major ideas and maintains focus on the topic and organize works including thesis, supporting paragraphs, appropriate transitions, topic sentence, supporting details, sequence, progression of ideas, elaboration, and concluding statement.	Use Organizational Patterns and Organize Works	
Demonstrate competence in a variety of compositions that shows an awareness of narrative elements such as audience and purpose; speculate on expository elements such as cause and effect, problem and solution, individual perspectives, and persuasive elements; point of view; poetry.	Demonstrate Competence in Variety of Compositions	