

# Measures of Academic Progress (MAP) UTAH State-Aligned Version 5

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.

<b>Mathematics 2-5 Goal Structure</b>	<b>Mathematics 2-5 DesCartes</b>	<b>Mathematics 2-5 Report Names</b>
<b>Number and Operations</b>	<b>Number and Operations</b>	<b>Number and Operations</b>
Identify, represent, and compare whole numbers, decimals, fractions and percents	Number	
Estimate, model and solve problems involving addition and subtraction of numbers	Operations: Addition and Subtraction	
Model, illustrate, and solve problems involving multiplication and division of numbers	Operations: Multiplication and Division	
<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>
Recognize and extend patterns and determine rules to describe them	Patterns	
Model and represent number relationships using symbols, properties, and operations	Expressions, Equations, and Inequalities	
<b>Geometry</b>	<b>Geometry</b>	<b>Geometry</b>



Describe, classify, and compare attributes of two- and three-dimensional shapes	Geometric Shapes	
Specify locations in a coordinate plane including maps	Coordinate Geometry	
Identify geometric shapes as either congruent or similar after applying a transformation	Transformations and Congruency	
<b>Measurement</b>	<b>Measurement</b>	<b>Measurement</b>
Identify and use units of measure, select and use appropriate tools to measure length, and determine measurements involving length, weight, capacity, time, money, and angles	Length, Weight, Capacity, Time, Money, and Angles	
Determine the perimeter and area of two-dimensional shapes and the surface area and volume of three-dimensional shapes	Perimeter, Area, and Volume	
<b>Data Analysis and Probability</b>	<b>Data Analysis and Probability</b>	<b>Data Analysis and Probability</b>
Collect, organize, and display data to formulate and answer questions and use statistical methods and make inferences based on data	Data Analysis	
Apply basic concepts of probability by describing and predicting random outcomes	Probability	

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<b>Mathematics 6+ Goal Structure</b>	<b>Mathematics 6+ DesCartes</b>	<b>Mathematics 6+ Report Names</b>
<b>Number and Operations</b>	<b>Number and Operations</b>	<b>Number and Operations</b>
Represent and explain relationships and equivalencies among real numbers	Number	
Compute and solve problems involving addition and subtraction of real numbers	Operations: Addition and Subtraction	
Compute and solve problems involving multiplication and division of real numbers	Operations: Multiplication and Division	
Model, illustrate, and solve problems involving ratio, rate, proportion, and percent	Ratio, Rate, Proportion, and Percent	
<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>	<b>Patterns and Algebra</b>
Recognize and extend patterns and determine rules to describe them	Patterns	
Analyze, simplify, and solve algebraic expressions and equations; Identify slopes of lines given points, a graph, or an equation; Simplify polynomials and the quotient of monomials	Expressions, Equations, and Inequalities	
Represent relationships using graphs, tables, expressions, and equations	Relationships	
<b>Geometry</b>	<b>Geometry</b>	<b>Geometry</b>
Describe, classify, and compare attributes of two- and three-dimensional shapes	Geometric Shapes	
Specify locations in a coordinate plane including maps	Coordinate Geometry	

Identify geometric shapes as either congruent or similar after applying a transformation	Transformations, Congruency, and Similarity	
<b>Measurement</b>	<b>Measurement</b>	<b>Measurement</b>
Identify and describe measurable attributes of objects and apply the properties of proportionality to different units of measurement	Length, Weight, Capacity, Time, Money, and Angles	
Determine measurements involving circumference, perimeter, area, surface area, and volume	Perimeter, Area, and Volume	
<b>Data Analysis and Probability</b>	<b>Data Analysis and Probability</b>	<b>Data Analysis and Probability</b>
Collect, organize, and display data to formulate and answer questions and use statistical methods and make inferences based on data	Data Analysis	
Apply basic concepts of probability by describing and predicting random outcomes	Probability	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
Phonological and Phonemic Awareness; Phonics; Vocabulary	Phonics; Vocabulary	Phonics, Vocabulary
Phonological and Phonemic Awareness; Phonics: Count the number of words in a sentence; count the number of syllables in words; identify words with same beginning and ending consonant sounds or with same medial sounds in a series of words; identify all vowel diphthongs and consonant digraphs; identify r-controlled vowel patterns in words; identify contractions and compound words	Phonological Awareness; Phonics	
Vocabulary: Structural Analysis: Identify meanings of words using roots and affixes; identify common prefixes and suffixes to determine meanings of words; analyze the meaning of words using knowledge of roots; determine word meaning through knowledge of linguistic roots and affixes	Vocabulary: Structural Analysis	
Vocabulary: Context Clues: Use words, sentences, and paragraphs as context clues to determine meanings of unknown key words, similes, metaphors, idioms, proverbs, clichés, and literary expressions; determine word meaning through definition or explanation context clues, using sentence structure, through analogy and contrast/antonym clues or through contextual inference; identify the literal meanings and shades of meaning of words	Vocabulary: Context Clues	
Vocabulary: Context Clues: Use context to determine meanings of synonyms, antonyms, homonyms and multiple-meaning words	Vocabulary: Synonyms, Antonyms, Homonyms	
<b>Comprehension: Identify purposes of text; apply strategies to comprehend text</b>	<b>Comprehension: Purposes and Strategies</b>	<b>Comprehension: Strategies</b>

Identify purposes of text: Identify author's purpose	Identify Purposes of Text	
Apply strategies to comprehend text: Make and confirm or revise predictions while reading; make inferences and draw conclusions from text; infer meaning from explicit or implicit information in text; use explicit and implicit information to arrive at conclusions; synthesize information from a variety of sources	Strategies: Predict, Infer, Conclude, Synthesize	
Apply strategies to comprehend text: Identify topic/main idea from text; note details; distinguish main idea and supporting details in text; identify main ideas and/or emotions in a wide range of poetry; retell or summarize important ideas/events; summarize supporting details in sequence; retell, paraphrase and summarize from informational text	Strategies: Main Idea, Details, Summarizing	
<b>Comprehension: Recognize and use features of narrative and informational text</b>	<b>Comprehension: Features of Text</b>	<b>Comprehension: Features of Text</b>
Identify characters, setting, sequence of events, problem/resolution, theme; identify narrative plot structure; determine which incidents are important to moving the plot forward and to making predictions (e.g., flashback, foreshadowing); evaluate the author's use of common literary elements; describe a character's traits based on what other characters think, say, and do; identify themes in literary works; define and describe settings in literature	Literary Elements	
Identify and interpret figurative language in literature (i.e., simile, metaphor, personification, hyperbole, and symbolism); analyze the use of irony, tone, and/or mood	Identify and Interpret Figurative Language	
Identify different genres: fairy tales, poems, realistic fiction, fantasy, fables, folk tales, tall tales, biographies, historical fiction	Identify Different Genres	

<p>Identify information from text, headings, subheadings, diagrams, charts, captions, graphs, table of contents, index, and glossary; identify and use external text features to enhance comprehension; analyze the purpose of external text features and structures in a variety of informational texts; identify different structures in text</p>	<p>Identify Information from Text; Text Structures</p>	
<p>Locate facts from a variety of informational texts; distinguish fact from opinion; evaluate text for reliability and accuracy</p>	<p>Locate Facts; Fact-Opinion; Reliability</p>	

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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
<b>Write to Communicate Effectively for a Variety of Purposes and Audiences: [Prewriting and Drafting]</b>	<b>Write to Communicate: [Prewriting and Drafting]</b>	<b>Prewriting and Drafting</b>
Prepare to write by gathering and organizing information and ideas (pre-writing) and compose a written draft: Select and narrow a topic from generated ideas; identify audience, purpose, and form for writing; use a variety of graphic organizers to organize information from multiple sources; compose a written draft; draft ideas on paper in an organized manner utilizing words, sentences, and multiple paragraphs (e.g., beginning, middle, end; main idea; details; characterization; setting; plot); use voice to fit the purpose and audience; use sensory details; use strong verbs and precise and vivid language to convey meaning	Prepare to Write, Compose a Written Draft	
<b>Write to Communicate Effectively for a Variety of Purposes and Audiences: [Revising]</b>	<b>Write to Communicate: [Revising]</b>	<b>Revising</b>
Revise to strengthen ideas, organization, voice, word choice: Evaluate and revise for limited topic and controlling idea providing focus for extended pieces; sufficiently developed key ideas and specific details that directly support and advance the thesis statement; varied transitions that connect ideas within and between paragraphs; correct use of active and passive voice; formal or informal voice specific to purpose; appropriate tone; words particular to the topic supported within the text for ease of understanding; words intentionally and skillfully used	Revise Ideas, Organization, Voice, Word Choice	

Revise [for] sentence variety: Write in complete sentences; evaluate and revise for sentence variety, concise sentence structure to enhance sentence fluency; rhythm created through sentence construction (i.e., parallel sentence structure); varied sentence structure (i.e., include complex and compound sentences)	Revise [for] Sentence Variety	
<b>Write to Communicate Effectively for a Variety of Purposes and Audiences: [Editing]</b>	<b>Write to Communicate: [Editing]</b>	<b>Editing</b>
Edit writing for correct capitalization and punctuation: Correct use of commas in a series; correct capitalization of sentence beginnings and proper nouns; correct end punctuation on simple and compound sentences; correct capitalization and punctuation [for] introductory and dependent clauses, dialogue, singular and plural possessives; abbreviations; capitals in holidays, titles, dates, greetings and closings of letters, personal titles, contractions, and the pronoun "I"	Edit for Correct Capitalization and Punctuation	
Correct grade level spelling	Correct grade level spelling	
<b>Write to Communicate Effectively for a Variety of Purposes and Audiences: [Grammar]</b>	<b>Write to Communicate: [Grammar]</b>	<b>Grammar</b>
Edit for standard grammar: Correct subject-verb agreement; correct use of possessives; verb tense, irregular verbs; comparatives, superlatives, pronouns	Edit for Standard Grammar	
<b>Write Informational and Literary Text to Reflect On and Recreate Experiences, Report Observations, and Persuade Others</b>	<b>Write Informational and Literary Texts</b>	<b>Write Literary, Informational</b>

<p>Write to recreate experience, to evaluate informational text, [and] analyze and synthesize ideas and information: Convey a unifying theme; produce traditional and imaginative stories, narrative and formula poetry; use narrative details (e.g., dialogue, description, imagery); produce informational text (e.g., book reports, cause/effect reports, compare/contrast essays, observational/research reports, summaries); write to persuade others; experiment with varied organizational patterns and forms of writing (e.g., memos, letters, reports, essays, brochures); use persuasive strategies including appeals to logic, emotion, and ethics; retell significant events in sequence; summarize essential information from literary or informational text</p>	<p>Write to Recreate, Evaluate, Analyze, Persuade</p>	
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