

Measures of Academic Progress (MAP) UTAH 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
Number and Operations	Number and Operations	Number and Operations
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	
Patterns and Algebra	Patterns and Algebra	Patterns and Algebra
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	

Geometry	Geometry	Geometry
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	
Measurement	Measurement	Measurement
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	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
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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Mathematics 6+ Goal Structure	Mathematics 6+ DesCartes	Mathematics 6+ Report Names
Number and Operations	Number and Operations	Number and Operations
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	
Patterns and Algebra	Patterns and Algebra	Patterns and Algebra
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	
Geometry	Geometry	Geometry
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	
Measurement	Measurement	Measurement
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	
Data Analysis and Probability	Data Analysis and Probability	Data Analysis and Probability
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
Strategies to Decode and Spell Unfamiliar Words	Strategies to Decode and Spell Unfamiliar Words	Decode and Spell
Use phonological and phonemic awareness, concepts of print	Use Phonemic Awareness, Concepts of Print	
Use phonics to decode words	Use Phonics to Decode Words	
Use structural analysis to determine meaning	Use Structural Analysis to Determine Meaning	
Use context clues to determine meaning	Use Context Clues to Determine Meaning	
Use a variety of grade level words	Use Variety of Grade Level Words	
Understand, Interpret, Analyze Narrative, Informational Text [Literal Comprehension]	Understand Narrative and Informational Text	Understand Narr, Inform Text
Recognize and use features of narrative, informational text	Use Features of Narrative, Info Text	
Locate information from a variety of text	Locate Information from a Variety of Text	
Identify topic/main idea from text; note details	Identify Topic/Main Idea; Note Details	
Summarize important ideas/events	Summarize Important Ideas/Events	
Identify different genres	Identify Different Genres	
Understand, Interpret, Analyze Narrative, Informational Text [Interpretive Comprehension]	Interpret Narrative and Informational Text	Interpret Narr, Inform Text
Identify author's purpose	Identify Author's Purpose	
Predict, make inferences, and draw conclusions	Predict, Make Inferences, and Draw Conclusions	
Recognize and interpret the elements of literature	Recognize, Interpret the Elements of Literature	
Select a work for analysis/identify techniques	Select a Work for Analysis/Identify Techniques	

Understand, Interpret, Analyze Narrative, Informational Text [Evaluative Comprehension]	Analyze Narrative and Informational Text	Analyze Narr, Inform Text
Determine accuracy, validity, reliability of information	Analyze Accuracy, Validity, Reliability of Text	
Identify different structures in text	Identify Different Structures in Text	
Identify stereotypes	Identify Stereotypes	

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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Use Composing Strategies Before, During, and After Writing [Prewriting]	Composing Strategies: Before Writing	Compos Strat: Before Writing
Concepts of print	Concepts of Print	
Generate ideas	Generate Ideas	
Identify audience	Identify Audience	
Identify purpose	Identify Purpose	
Identify forms of writing	Identify Forms of Writing	
Use process strategies	Use Process Strategies	
Use Composing Strategies Before, During, and After Writing [Drafting/Revising]	Composing Strategies: During Writing	Compos Strat: During Writing
Use composing strategies to construct a written draft	Use Strategies to Construct a Written Draft	
Use an organizational pattern to structure information	Use Organizational Pattern to Structure Info	
Use revision strategies to improve a written draft	Use Revision to Improve a Written Draft	
Using a variety of complete sentences and paragraphs	Use a Variety of Sentences and Paragraphs	
Use Composing Strategies Before, During, and After Writing [Mechanics/Editing]	Composing Strategies: After Writing	Compos Strat: After Writing
Identify and correct errors in capitalization	Identify and Correct Errors in Capitalization	
Identify and correct errors in punctuation	Identify and Correct Errors in Punctuation	
Identify and correct errors in misspellings of words	Identify and Correct Misspellings of Words	
Evaluate writer's ability to organize ideas	Evaluate Writer's Ability to Organize Ideas	
Evaluate writing according to standard language usage	Evaluate Writing: Standard Language Usage	
Use process strategies after writing	Use Process Strategies After Writing	

Use Composing Strategies Before, During, and After Writing [Grammar]	Composing Strategies: Grammar	Compos Strat: Grammar
Edit for use of nouns and pronouns	Edit for Use of Nouns and Pronouns	
Edit for use of verbs	Edit for Use of Verbs	
Edit for use of adjectives and adverbs	Edit for Use of Adjectives and Adverbs	
Edit for use of phrases and clauses	Edit for Use of Phrases and Clauses	
Edit for use of conjunctions and prepositions	Edit for Use of Conjunctions, Prepositions	
Edit for use of negatives and interjections	Edit for Use of Negatives and Interjections	