

Measures of Academic Progress (MAP) NWEA 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
Computation*	Computation	Computation
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	
Number Sense and Numeration	Number Sense and Numeration	Number Sense and Numeration
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	
Equivalence	Equivalence	
Number Theory	Number Theory	

Geometry	Geometry	Geometry
2-D and 3-D Identification and Classification	2-D and 3-D Identification and Classification	
Symmetry and Transformations	Symmetry and Transformations	
Similarity, Congruence, and Scale	Similarity, Congruence, and Scale	
Measurement	Measurement	Measurement
Length, Weight, Mass, and Capacity	Length, Weight, Mass, and Capacity	
Time, Temperature, and Money	Time, Temperature, and Money	
Angles and Perimeter	Angles and Perimeter	
Area, Surface Area, and Volume	Area, Surface Area, and Volume	
Rate	Rate	
Appropriate Units, Tools, and Precision Strategies	Appropriate Units, Tools, and Precision Strategies	
Statistics, Probability, and Graphing	Statistics, Probability, and Graphing	Statistics and Probability
Organize, Read, and Interpret Graphs	Organize, Read, and Interpret Graphs	
Data Collection and Analysis	Data Collection and Analysis	
Probability	Probability	
Permutations and Combinations	Permutations and Combinations	
Algebraic Concepts	Algebraic Concepts	Algebraic Concepts
Patterns and Sequences	Patterns and Sequences	
Expressions and Equations	Expressions and Equations	
Graphs and Functions	Graphs and Functions	
Problem Solving	Problem Solving	Problem Solving
Understand Problems	Understand Problems	
Represent Problems	Represent Problems	
Solution Strategy	Solution Strategy	
Verify Results	Verify Results	
Reasoning, Logic, Conjecture, and Proofs	Reasoning, Logic, Conjecture, and Proofs	

*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
Computation	Computation	Computation
Estimation	Estimation	
Whole Numbers: Addition and Subtraction	Whole Numbers: Addition and Subtraction	
Whole Numbers: Multiplication and Division	Whole Numbers: Multiplication and Division	
Fractions and Decimals: Addition and Subtraction	Fractions and Decimals: Addition and Subtraction	
Fractions and Decimals: Multiplication and Division	Fractions and Decimals: Multiplication and Division	
Integers, Rational, Real and Complex Numbers	Integers, Rational, Real and Complex Numbers	
Percent, Ratio and Proportion	Percent, Ratio and Proportion	
Powers, Roots, and Scientific Notation	Powers, Roots, and Scientific Notation	
Matrices and Recurrence Relations	Matrices and Recurrence Relations	
Number Sense and Numeration	Number Sense and Numeration	Number Sense and Numeration
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, Rational, and Real Numbers	Integers, Rational, and Real Numbers	
Percent, Ratio, and Proportion	Percent, Ratio, and Proportion	
Equivalence	Equivalence	
Number Theory	Number Theory	
Powers, Roots, and Scientific Notation	Powers, Roots, and Scientific Notation	
Geometry	Geometry	Geometry
2-D and 3-D Identification and Classification	2-D and 3-D Identification and Classification	



Symmetry and Transformations	Symmetry and Transformations	
Similarity, Congruence, and Scale	Similarity, Congruence, and Scale	
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	
Rate	Rate	
Appropriate Units, Tools, and Precision Strategies	Appropriate Units, Tools, and Precision Strategies	
Statistics, Probability, and Graphing	Statistics, Probability, and Graphing	Statistics and Probability
Organize, Read, and Interpret Graphs	Organize, Read, and Interpret Graphs	
Data Collection and Analysis	Data Collection and Analysis	
Probability	Probability	
Permutations and Combinations	Permutations and Combinations	
Algebraic Concepts	Algebraic Concepts	Algebraic Concepts
Patterns and Sequences	Patterns and Sequences	
Expressions	Expressions	
Equations and Inequalities	Equations and Inequalities	
Graphs and Graphing Systems	Graphs and Graphing Systems	
Functions and Matrices	Functions and Matrices	
Problem Solving	Problem Solving	Problem Solving
Understand Problems	Understand Problems	
Represent Problems	Represent Problems	
Solution Strategy	Solution Strategy	
Verify Results	Verify Results	
Reasoning, Logic, Conjecture, and Proofs	Reasoning, Logic, Conjecture, and Proofs	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
Word Analysis and Vocabulary Development	Word Analysis and Vocabulary Development	Word Analysis and Vocabulary
Word recognition and vocabulary	Word Recognition and Vocabulary	
Multiple meanings	Multiple Meanings	
Synonyms and antonyms	Synonyms and Antonyms	
Word components	Word Components	
Literal Reading Comprehension	Literal Reading Comprehension	Literal Comprehension
Locate information and read directions	Locate Information and Read Directions	
Sequence events	Sequence Events	
Read for main idea and details	Read for Main Idea and Details	
Determine cause and effect	Determine Cause and Effect	
Interpretive Reading Comprehension	Interpretive Reading Comprehension	Interpretive Comprehension
Infer and predict	Infer and Predict	
Compare and contrast	Compare and Contrast	
Summarize	Summarize	
Interpret author's purpose	Interpret Author's Purpose	
Draw conclusions	Draw Conclusions	

Evaluative Reading Comprehension	Evaluative Reading Comprehension	Evaluative Comprehension
Evaluate persuasive elements	Evaluate Persuasive Elements	
Evaluate author's technique and viewpoint	Evaluate Author's Technique and Viewpoint	
Evaluate fact and opinion	Evaluate Fact and Opinion	
Literary Response and Analysis	Literary Response and Analysis	Lit Response, Analysis
Identify literary elements	Identify Literary Elements	
Identify literary devices	Identify Literary Devices	
Identify characteristics of genre	Identify Characteristics of Genre	

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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Composing and Writing Process	Composing and Writing Process	Writing Process
Prewriting skills	Prewriting Skills	
Use drafting and revising skills	Use Drafting and Revising Skills	
Use editing and proofreading processes	Use Editing and Proofreading Processes	
Composition Structure	Composition Structure	Composition Structure
Use sentence forms appropriate to purpose	Use Sentence Forms Appropriate to Purpose	
Develop paragraphs	Develop Paragraphs	
Use composition forms	Use Composition Forms	
Basic Grammar and Usage	Basic Grammar and Usage	Grammar: Usage
Use basic sentence patterns	Use Basic Sentence Patterns	
Use noun forms	Use Noun Forms	
Use pronoun forms	Use Pronoun Forms	
Use verb forms	Use Verb Forms	
Use adjective forms	Use Adjective Forms	
Use adverb forms	Use Adverb Forms	
Use conjunctions and prepositions	Use Conjunctions and Prepositions	
Use negatives and interjections	Use Negatives and Interjections	
Use phrases and clauses	Use Phrases and Clauses	
Spelling	Spelling	
Punctuation	Punctuation	Punctuation
Use appropriate end punctuation	Use Appropriate End Punctuation	
Use comma appropriately	Use Commas Appropriately	



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Use other forms of punctuation	Use Other Forms of Punctuation	
Capitalization	Capitalization	Capitalization
Use beginning capitalization	Use Beginning Capitalization	
Capitalize proper nouns and adjectives	Capitalize Proper Nouns and Adjectives	
Other rules of capitalization	Other Rules of Capitalization	