

Measures of Academic Progress (MAP) Illinois State-Aligned Version 2

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 Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions*	Number Sense	Number Sense
Representations and ordering: read, write, and represent numbers	Read, Write, and Represent Numbers	
Representations and ordering: order and compare numbers and number line	Order and Compare Numbers and Number Line	
Representations and ordering: classifications of numbers	Classifications of Numbers	
Computation, operations, estimation, and properties; number operations: addition and subtraction	Number Operations: Addition, Subtraction	
Computation, operations, estimation, and properties; number operations: multiplication and division	Number Operations: Multiplication, Division	
Computation, operations, estimation, and properties: properties	Properties	
Computation, operations, estimation, and properties: estimation	Estimation	
Ratios, proportions, and percents	Ratios, Proportions, and Percents	
Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy	Measurement	Measurement



Elapsed time, measurement tools, and estimation	Elapsed Time, Measurement Tools, and Estimation	
Area, perimeter, and circumference	Area, Perimeter, and Circumference	
Volume and surface area	Volume and Surface Area	
Measurement conversions, indirect measurements, and scale drawings	Conversions, Indirect Measurements, Scale Drawings	
Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results	Algebra	Algebra
Representations, patterns, and expressions: patterns	Patterns	
Representations, patterns, and expressions: write and simplify expressions and evaluate algebraic expressions	Write, Simplify, Evaluate Algebraic Expressions	
Connections using tables, graphs, and symbols: describing change and representations	Describing Change and Representations	
Writing, interpreting, and solving equations: write and solve equations and inequalities	Write and Solve Equations and Inequalities	
Geometry: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space	Geometry	Geometry
Properties of single figures and coordinate geometry: properties of single figures, circles, and lines, segments, rays, and angles	Single Figures, Circles, Lines, and Angles	
Properties of single figures and coordinate geometry: coordinate geometry, symmetry, and transformations	Coordinate Geometry, Symmetry and Transformations	
Relationships between and among multiple figures	Relationships Between and Among Multiple Figures	

Data Analysis, Statistics, and Probability: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability	Data Analysis, Statistics, and Probability	Data Analysis and Probability
Data analysis and statistics	Data Analysis and Statistics	
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
Number Sense: Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions	Number Sense	Number Sense
Representations and ordering: read, write, and represent numbers*	Read, Write, and Represent Numbers	
Representations and ordering: order and compare numbers and number line*	Order and Compare Numbers and Number Line	
Representations and ordering: classifications of numbers	Classifications of Numbers	
Computation, operations, estimation, and properties: number operations: addition and subtraction*	Number Operations: Addition, Subtraction	
Computation, operations, estimation, and properties: number operations: multiplication and division*	Number Operations: Multiplication, Division	
Computation, operations, estimation, and properties: properties*	Properties	
Computation, operations, estimation, and properties: estimation*	Estimation	
Ratios, proportions, and percents	Ratios, Proportions, and Percents	
Measurement: Estimate, make and use measurements of objects, quantities and relationships and determine acceptable levels of accuracy	Measurement	Measurement
Elapsed time, measurement tools, and estimation	Elapsed Time, Measurement Tools, and Estimation	
Area, perimeter, and circumference	Area, Perimeter, and Circumference	
Volume and surface area	Volume and Surface Area	
Measurement conversions, indirect measurements, and scale drawings	Conversions, Indirect Measurements, Scale Drawings	
Algebra: Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems and predict results	Algebra	Algebra
Representations, patterns, and expressions: patterns	Patterns	

Representations, patterns, and expressions: write and simplify expressions and evaluate algebraic expressions	Write, Simplify, Evaluate Algebraic Expressions	
Connections using tables, graphs, and symbols: change, graphs, representations, and inequalities	Change, Graphs, Representations, and Inequalities	
Writing, interpreting, and solving equations: write and solve equations and inequalities	Write and Solve Equations and Inequalities	
Geometry: Use geometric methods to analyze, categorize and draw conclusions about points, lines, planes and space	Geometry	Geometry
Properties of single figures and coordinate geometry: properties of single figures, circles, and lines, segments, rays, and angles	Single Figures, Circles, Lines, and Angles	
Properties of single figures and coordinate geometry: coordinate geometry, symmetry, and transformations	Coordinate Geometry, Symmetry and Transformations	
Relationships between and among multiple figures, justifications of conjectures and conclusions, and trigonometry	Relationships, Justifications, and Trigonometry	
Data Analysis, Statistics, and Probability: Collect, organize and analyze data using statistical methods; predict results; and interpret uncertainty using concepts of probability	Data Analysis, Statistics, and Probability	Data Analysis and Probability
Data analysis and statistics	Data Analysis and Statistics	
Probability	Probability	

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Reading Goal Structure	Reading DesCartes	Reading Report Names
Read with Understanding and Fluency: Apply word analysis and vocabulary skills to comprehend selections	Word Analysis and Vocabulary Skills	Word Analysis Vocabulary
Students who meet the standard can apply word analysis and vocabulary skills to comprehend selections: use phonics to decode simple words in age-appropriate material; demonstrate phonological awareness (e.g., counting syllables, hearing rhyme, alliteration, onset and rime) of sounds in words; demonstrate phonemic awareness by blending or segmenting phonemes in a one-syllable word; use appropriate strategies of decoding (e.g., illustrations, phonics, word patterns, context clues) to recognize unknown words when reading material	Apply Word Analysis Skills	
Students who meet the standard can apply word analysis and vocabulary skills to comprehend selections: use a combination of word analysis and vocabulary strategies (e.g., phonics, word patterns, structural analyses) to identify words; learn and use high frequency root words, prefixes, and suffixes to understand word meaning; apply word analysis and vocabulary; use word origins to construct the meanings of new words; use synonyms and antonyms to define words; determine the meaning of a word in context when the word has multiple meanings; recognize specialized vocabulary/terminology	Apply Vocabulary Skills	
Read with Understanding and Fluency: Apply reading strategies to improve understanding and fluency	Reading Strategies and Comprehension	Reading Strat, Comprehension



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<p>Students who meet the standard can apply reading strategies to improve understanding: preview reading materials using pre-reading strategies (e.g., skimming, scanning, predicting, SQ3R); use clues (e.g., titles, pictures, themes, graphs) to make and justify predictions before, during, and after reading; recognize when understanding requires re-reading to clarify meaning; state facts and details of text during, and after reading; locate answers to age-appropriate questions before, during, and after reading to clarify understanding; identify explicit main ideas; demonstrate an accurate understanding of important information in the text by focusing on the key ideas presented explicitly or implicitly; distinguish between significant and minor details</p>	<p>Prediction; Locate Main Ideas, Details</p>	
<p>Students who meet the standard can apply reading strategies to improve understanding: recognize informational text structure (e.g., sequence, list/example) before and during reading; differentiate between fact and opinion; identify structure (e.g., description, compare, cause/effect, sequence) of nonfiction text to improve comprehension; identify text structure and create a mental/visual representation (e.g., graphic organizer, outline, drawing) to use while reading; identify how different content areas require different organizational structures (e.g., lists/sequence, comparison, cause/effect, problem/solution, classification); apply survey strategies (e.g., use of bold print, organization of content, key words, graphics); interpret text information gathered from diagrams, graphs, or maps before, during, and after reading; demonstrate understanding of structure through the use of graphic organizers and outlining (e.g., mapping, time lines, Venn diagrams)</p>	<p>Text Structure, Features</p>	

<p>Students who meet the standard can comprehend a broad range of reading materials: begin to recognize the author's purpose across a broad range of materials; identify the author's purpose; summarize information about fiction and nonfiction materials in illustrations, charts and other graphics; summarize or tell information from a broad range of reading materials; paraphrase/summarize narrative text according to text structure; make generalizations based on relevant information from expository text; synthesize key points (ideas) and supporting details to form conclusions; critically evaluate information from multiple sources; interpret concepts or make connections through analysis, evaluation, inference, and/or comparison</p>	<p>Comprehend Purpose, Summarize, Conclude, Infer</p>	
<p>Read and Understand Literature Representative of Various Societies, Eras, and Ideas: Understand how literary elements and techniques are used to convey meaning</p>	<p>Literature: Literary Elements and Techniques</p>	<p>Literature</p>
<p>Students who meet the standard can understand how literary elements are used to convey meaning: identify and compare characters, settings, and/or events in stories and/or pictures; identify the elements of plot by retelling the story (i.e., problem, attempts to solve problem, or resolution of problem); identify literary elements (e.g., characterization, narration) in a variety of genres and tell how they affect the work</p>	<p>Understand Literary Elements</p>	

<p>Students who meet the standard can understand how literary techniques are used to convey meaning: recognize both rhymed and unrhymed poetry; discover poetic devices (e.g., rhyme, rhythm, alliteration, onomatopoeia, repetition, simile, metaphor); identify rhythm and rhyme in original work; identify poetic devices (e.g., alliteration, assonance, consonance, onomatopoeia, rhyme scheme); identify metaphor, simile, onomatopoeia, and hyperbole in text; identify literary techniques (e.g., satire, dialogue, figurative language) in a variety of genres and tell how they affect the work; understand and use literary terms (e.g., foreshadowing, metaphor, simile, symbolism, flashback, scene, dialogue)</p>	<p>Understand Literary Techniques</p>	
<p>Read and Understand Literature Representative of Various Societies, Eras, and Ideas: Read and interpret a variety of literary works</p>	<p>Variety of Literary Works</p>	<p>Literary Works</p>
<p>Students who meet the standard can understand how literary elements and techniques are used to convey meaning: name several characteristics that distinguish fiction from nonfiction; classify major types of fiction (e.g., tall tale, fairy tale, fable); classify major types of nonfiction (e.g., essay, biography, autobiography); recognize that prose is written in sentences and organized in paragraphs; use textual structure, word choice, and style to identify detail that reveals the author's viewpoint; evaluate the impact of the author's word choice, language structure, and syntax; support assertions with evidence from the text</p>	<p>Fiction Characteristics</p>	
<p>Students who meet the standard can read and interpret a variety of literary works: read a wide range of nonfiction (e.g., books, newspapers, magazines, textbooks, visual media); respond appropriately to texts representing life skills (e.g., classroom labels, school signs, restroom symbols)</p>	<p>Nonfiction Characteristics</p>	



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Language Usage Goal Structure	Language Usage DesCartes	Language Usage Report Names
Write to Communicate for a Variety of Purposes: Use correct grammar, spelling	Write to Communicate: Grammar, Spelling	Grammar and Spelling
Demonstrate subject/verb agreement; demonstrate appropriate use of the eight parts of speech	Demonstrate Agreement, Use Parts of Speech	
Demonstrate progression from phonetic to conventional spelling of words; use correct spelling of appropriate high frequency words	Demonstrate Conventional Spelling	
Write to Communicate for a Variety of Purposes: Use correct punctuation, capitalization and structure	Write to Communicate: Punctuation, Cap, Struct	Punctuation, Cap, Structure
Use appropriate capitalization	Use Appropriate Capitalization	
Use appropriate punctuation	Use Appropriate Punctuation	
Develop multi-paragraph compositions that include an introduction, first and second level support, and a conclusion; use a variety of sentence structures (e.g., simple, compound/complex) and sentence types (i.e., declarative, interrogative, exclamatory, imperative); use effective transition words and phrases within and between paragraphs	Develop Multi Paragraph, Variety of Sen Structures	
Write to Communicate for a Variety of Purposes: Compose well-organized and coherent writing for specific purposes and audiences	Write to Communicate: Compose Writing	Compose Writing
Use prewriting strategies to choose a topic and generate ideas (e.g., webbing, brainstorming, listing, note taking, outlining, drafting, graphic organizers)	Use Prewriting Strategies	
Use organizational patterns (e.g., sequence, cause/effect, comparison); evaluate and use figurative language; use stages of the writing process (e.g., drafting, revising, editing) to develop paragraphs with focus, organization, elaboration, and integration	Use Organizational Patterns, Stages of Process	



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Write to Communicate for a Variety of Purposes: Communicate ideas in writing to accomplish a variety of purposes	Write to Communicate: Variety of Purposes	Write: Variety of Purposes
Use basic components of the writing process (e.g., prewriting, drafting, publishing) to write for a variety of purposes (e.g., narration, exposition); use appropriate language, detail, and format for a specified audience; write creatively for a specified purpose and audience (e.g., short story, poetry, play, rap, parody)	Use Variety of Purposes, Audiences	
Use the characteristics of a well-developed expository and persuasive piece; experiment with different forms of creative writing (e.g., song, poetry, short fiction, play)	Use Characteristics Expository, Persuasive, Creative	
Demonstrate the proper format/conventions for business letters; convert a formal letter into an informal one (or vice versa); develop a cover letter and resume for a particular job title; write a multi-paragraph narrative account (e.g., friendly letter, journal, autobiography, biographical account, memoir) that establishes a context, creates a point of view, and develops a focused impression; use information from various sources to answer questions, solve problems, and communicate ideas	Demonstrate Format Business, Narrative, Sources	



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