

Measures of Academic Progress (MAP) North Dakota 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.

Concepts and Processes Goal Structure	Concepts and Processes DesCartes	Concepts and Processes Report Names
Unifying Concepts of Science and the Nature of Science	Unifying Concepts; Nature of Science	Concept, Nature of Science
Models and their Use in Science	Models and their Use in Science	
Systems and their Interacting Components	Systems and their Interacting Components	
Change, Constancy, System Evolution and Equilibrium	Systems: Change, Constancy, Evolution, Equilibrium	
Relationship between Form and function	Relationship between Form and function	
Science, Society, Advance of Science Knowledge	Science, Society, Advance of Science Knowledge	
Inquiry, Technological Design, and Society	Inquiry, Technological Design, and Society	Science Inquiry Technology
Asking Questions	Asking Questions	
Formulating Hypotheses	Formulating Hypotheses	

Designing Scientific Investigations	Designing Scientific Investigations	
Making Observations	Making Observations	
Analyzing Data	Analyzing Data	
Communicating	Communicating	
Technological Design; Technology and Society	Technological Design; Technology and Society	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Physical Science	Physical Science	Physical Science
Matter: Structure, Properties and Changes; Chemical Reactions	Matter: Structure, Properties, Changes; Reactions	
Force and Motion	Force and Motion	
Energy: Forms of, Transfer, Transformation; Waves	Energy: Forms of, Transfer, Transformation; Waves	
Life Science	Life Science	Life Science
Organisms, Cells: Structure and Function	Organisms, Cells: Structure and Function	
Life Cycles, Genetics, Reproduction; Evolution	Life Cycles, Genetics, Reproduction; Evolution	
Organisms and their Environment: Diversity, Interdependence, Energy Flow	Diversity, Interdependence, Energy Flow	
Earth and Space Science	Earth and Space Science	Earth and Space Science
Weather, Seasons and Climate	Weather, Seasons and Climate	
Characteristics of the Earth; Earth's History	Characteristics of the Earth; Earth's History	
Geologic Processes and Cycles	Geologic Processes and Cycles	
The Sky, Solar System, Universe	The Sky, Solar System, Universe	