

Measures of Academic Progress (MAP) North Dakota State-Aligned Version 1

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	Unif Concepts; Nature of Sci
Models and their use in science	Models and Their Use in Science	
Systems and their interacting components	Systems and Their Interacting Components	
Change, constancy, evolution and equilibrium in systems	Systems: Change, Constancy, Evolution, Equilibrium	
Relationship between form and function	Relationship Between Form and Function	
Science, society and advancement of scientific knowledge	Science, Society and Advance of Science Knowledge	
Scientific Inquiry, Technological Design, and Relationships Among Science, Technology and Society	Scientific Inquiry, Technology Design	Sci Inquiry, Tech Design
Asking questions	Asking Questions	
Formulating hypotheses	Formulating Hypotheses	
Designing scientific investigations	Designing Scientific Investigations	

Making observations	Making Observations	
Analyzing data	Analyzing Data	
Formulating and evaluating explanations	Formulating and Evaluating Explanations	
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
Concepts and Principles of Physical Science	Physical Science	Physical Science
Properties and structure of matter; chemical reactions	Properties and Structure of Matter; Chemical Reactions	
Force and motion and waves	Force and Motion and Waves	
Energy: forms, transfer and transformation	Energy: Forms, Transfer and Transformation	
Concepts and Principles of Life Science and the Environment	Life Science and Environment	Life Science, Environment
Characteristics of organisms; structure and function	Char of Organisms; Structure and Function	
Life cycles, reproduction and genetics	Life Cycles, Reproduction and Genetics	
Diversity, unity of life and natural selection	Diversity, Unity of Life and Natural Selection	
Science and social and environmental issues	Science and Social and Environmental Issues	
Interactions among organisms and the environment; flow of matter and energy	Interactions Within Environ; Flow of Matter, Energy	
Concepts and Principles of Earth and Space Science	Earth and Space Science	Earth and Space Science
Weather, seasons, and climate	Weather, Seasons, and Climate	
Characteristics of the earth, history of earth	Characteristics of the Earth, History of Earth	
Geologic processes and cycles	Geologic Processes and Cycles	
The sky, solar system and universe	The Sky, Solar System and Universe	