

Measures of Academic Progress (MAP) Missouri-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
Scientific Inquiry	Scientific Inquiry	Scientific Inquiry
Formulate testable questions and hypotheses	Formulate Testable Questions and Hypotheses	
Identify the components (i.e., independent variable, dependent variables, control of constants, multiple trials) and explain their importance	Independent Variable, Dependent Variables, Control of Constants	
Design conduct and evaluate a valid experiment, and the scientific method.	Design Conduct and Evaluate a Valid Experiment, Scientific Method	
Scientific inquiry relies upon gathering evidence from qualitative and quantitative observations	Scientific Inquiry Gathering Evidence, Observations	
Evidence is used to formulate explanations	Evidence Is Used To Formulate Explanations	
The nature of science relies upon communication of results and justification of explanations	Nature of Science	
Impact of Science, Technology and Human Activity, and Science Organizers	Science, Technology, Human Activity, and Science Organizers	Science Impact and Organizers



The nature of technology, and science and technology.	The Nature of Technology, and Science and Technology.	
Systems	Systems	
Scale and models	Scale and Models	
Constancy and patterns of change	Constancy and Patterns of Change	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Matter and Energy, Force and Motion (Physical Science)	Matter and Energy, Force and Motion (Physical Science)	Physical Science
Properties and principles of matter	Properties and Principles of Matter	
Properties and principles of energy	Properties and Principles of Energy	
Properties and principles of force and motion	Properties and Principles of Force and Motion	
Characteristics and Interactions of Living Organisms, and Changes in Ecosystems and Interactions of Organisms with their Environments (Life Science)	Characteristics, Interactions of Organisms, Env (Life Science)	Life Science
Characteristics and interactions of living organisms	Characteristics and Interactions of Living Organisms	
Changes in ecosystems and interactions of organisms with their environments	Changes in Ecosystems, Interactions of Organisms with Environment	
Processes and Interactions of the Earth's Systems (Geosphere, Atmosphere, and Hydrosphere), and Composition and Structure of the Universe and the Motion of the Objects Within It (Earth and the Universe)	Earth's Systems and the Universe (Earth and the Universe)	Earth and the Universe
Processes and interactions of the Earth's systems (geosphere, atmosphere, and hydrosphere)	Earth's Systems (Geosphere, Atmosphere, and Hydrosphere)	
Composition and structure of the universe and the motion of the objects within it	Composition and Structure of the Universe	