

Measures of Academic Progress (MAP) Kansas-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
Science as Inquiry: The student will develop the abilities to do scientific inquiry, be able to demonstrate how scientific inquiry is applied, and develop understandings about scientific inquiry, the student will apply different kinds of investigations to different kinds of questions	Science as Inquiry	Science as Inquiry
The student will demonstrate the abilities necessary to do scientific inquiry: classifies and arranges groups of objects by a variety of properties, one property at a time	Classifies and Arranges Properties	
The student will apply different kinds of investigations to different kinds of questions and the scientific investigations includes, when appropriate, analyzing and evaluating the results in order to clarify the questions and hypotheses, and to refine methods for further research	Asks and Evaluates Questions	
The student will demonstrate the abilities necessary to do scientific inquiry: designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data	Designs Scientific Investigations	

The student will demonstrate the abilities necessary to do scientific inquiry: designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data: the scientific investigation includes, when appropriate, formulating a testable hypothesis	Tests Hypothesis	
The student will demonstrate the abilities necessary to do scientific inquiry: designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data: the scientific investigations includes, when appropriate, identifying and testing variables (independent, dependent, and variables to be kept constant)	Identifies and Tests Variables	
The student will demonstrate the abilities necessary to do scientific inquiry: designs and conducts scientific investigations safely using appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data: displays data collected from performing an investigation using tables, graphs, diagrams and other graphic organizers	Gathers Data, Observable, Measurable, Replicable	
The student will demonstrate the abilities necessary to do scientific inquiry: identifies the relationship between evidence and logical conclusions: scientific investigations includes, when appropriate, analyzing and evaluating the results	Analyzes and Evaluates the Results	
Science and Technology, and History and Nature of Science: the student will demonstrate abilities of technological design and understandings about science and technology: the student will develop understanding of science as a human endeavor, the nature of scientific knowledge, and historical perspectives	Science and Technology, History, Nature of Science	Technology, Nature, Science
The student will demonstrate abilities of technological design and understandings about science and technology: the student will develop an understanding that technology is applied science	Technological Design, and Science and Technology	



<p>The student will develop understandings about the relationship between science and technology: habits of the mind: understands scientific knowledge begins with empirical observations, which are the data (also called facts or evidence) upon which further scientific knowledge is built</p>	<p>Empirical Observations (Facts or Evidence)</p>	
<p>The student will develop an understanding of the nature of scientific knowledge: understands scientific knowledge consists of hypotheses, inferences, laws, and theories</p>	<p>Scientific Knowledge and Empirical Evidence</p>	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Physical Science: The Student Will Apply Process Skills to Develop an Understanding of Physical Science Including: Properties, Changes of Properties of Matter, Motion and Forces, and Transfer of Energy. The Student Will Develop an Understanding of the Structure of Atoms, Compounds, Chemical Reactions, and the Interactions of Energy and Matter, and the Student Will Develop an Understanding of the Structure of Atoms, Compounds, Chemical Reactions, and the Interactions of Energy and Matter	Understanding of Physical Science	Physical Science
The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter: the student will observe, compare, and classify properties of matter	Observe, Compare, Classify Properties of Matter	
The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter: the student will understand the structure of the atom	Structure of the Atom	
The student will gain a basic concept of chemical reactions	Basic Concept of Chemical Reactions	
The student will investigate motion and forces and the relationships between force and motion	Motion and Forces, and Relationships	
The student will understand that physicists use conservation laws to analyze the motion of objects	Conservation Laws Analyze the Motion of Objects	
The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter: the student will understand the nature of the fundamental interactions of matter and energy: the student will recognize and demonstrate what makes sounds.	Fundamental Interactions of Matter and Energy	



The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter: the student will experiment with electricity and magnetism	Electricity and Magnetism	
Life Science; The Student Will Develop an Understanding of the Cell, Molecular Basis of Heredity, Biological Evolution, Interdependence of Organisms, Matter, Energy, and Organization in Living Systems, and the Behavior of Organisms	Life Science	Life Science
The student will demonstrate an understanding of the structure and function of the cell and the characteristics of living things	The Cell and the Characteristics of Living Things	
The student will demonstrate an understanding of reproduction, chromosomes, genes, and the molecular basis of heredity	Chromosomes, Genes, Molecular Basis of Heredity	
The student will observe the diversity of living things and relate their adaptations to their survival or extinction, and will understand biological evolution	Adaptations, Biological Evolution, Classification	
The student will understand the interdependence of organisms and their interaction with the physical environment, and develop an understanding of matter, energy, and organization in living systems	Organisms, Interaction With Physical Environment	
The student will demonstrate an understanding of the diversity of structure and function in organisms	Structure and Function, and Behavior of Animals.	
The student will understand the impact of human activity on resources and environment	Impact of Human Activity on Resources, Environment	
Earth and Space Science: The Student Will Develop an Understanding of Energy in the Earth System, Geochemical Cycles, the Formation and Organization of the Earth System, the Dynamics of the Earth/Moon/Sun System, and the Organization and Development of the Universe	Earth and Space Science	Earth and Space Science
The student will develop an understanding of the properties of earth materials	Properties of Earth Materials	

The student will develop an understanding of the sources of energy that power the subsystems and cycles of the dynamic earth: the geosphere, hydrosphere, atmosphere and biosphere	Sources of Energy That Power the Dynamic Earth	
The student will understand past and present earth processes and their similarity	Past and Present Earth Processes and Similarity	
The student will develop skills necessary to describe changes in the earth and weather	Basic Weather, Energy Drives Climate and Weather	
The student will develop an understanding of dynamics of our solar system	Dynamics of our Solar System	