

Measures of Academic Progress (MAP) Tennessee 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
Scientific Inquiry	Scientific Inquiry	Scientific Inquiry
Observing and Measuring: Understandings about scientific inquiry and the ability to conduct inquiry are essential for living in the 21st century.	Observing and Measuring	
Questioning, Predicting and Investigating: Design and conduct scientific investigations to explore new phenomena, verify previous results, test how well a theory predicts, and compare opposing theories.	Questioning, Predicting and Investigating	
Technology in Science	Technology in Science	Technology in Science
Gathering, Analyzing and Explaining Data: Analyze the components of a properly designed scientific investigation.	Gathering, Analyzing and Explaining Data	
Technology and Engineering: Society benefits when engineers apply scientific discoveries to design materials and processes that develop into enabling technologies.	Technology and Engineering	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Life Science	Life Science	Life Science
All living things are made of cells that perform functions necessary for life.	All Living Things are Made of Cells	
Interdependence and Flow of Matter and Energy: All life is interdependent and interacts with the environment; matter cycles and energy flows through the biosphere.	Interdependence, Matter and Energy	
Heredity, Biodiversity and Change: Plants and animals reproduce and transmit hereditary information between generations; a rich variety of complex organisms have developed in response to a continually changing environment.	Heredity, Biodiversity and Change	
Earth and Space Science	Earth and Space Science	Earth and Space Science
The Universe: The cosmos is vast and explored well enough to know its basic structure and operational principles.	The Universe: Solar System, Sun, Earth, Moon	
Cycles in the Earth System: The earth system consists of interrelated subcycles that act over extended periods of geologic time.	Earth System: Rocks, Minerals, Plate Tectonics	
The Atmosphere: The earth is surrounded by an active atmosphere and an energy system that controls the distribution of life, local weather, climate, and global temperature.	The Atmosphere: Weather, Climate and Energy	

Physical Science	Physical Science	Physical Science
Matter: The composition and structure of matter is known, and it behaves according to principles that are generally understood.	Matter: the Atom, Physical and Chemical Properties	
Energy: Various forms of energy are constantly being transformed into other types without any net loss of energy from the system.	Energy: Forms, Transfer and Transformation	
Motion: Objects move in ways that can be observed, described, predicted, and measured.	Motion, Forces and Simple Machines	