

Measures of Academic Progress (MAP) New Hampshire-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
Science Process Skills (Scientific Inquiry and Critical Thinking Skills (INQ))	Process Skills (Scientific Inquiry and Thinking)	Inquiry and Thinking
Making observations and asking questions	Making Observations and Asking Questions	
Designing scientific investigations and evaluating scientific investigations	Designing Scientific Investigations	
Representing and understanding results	Representing and Understanding Results	
Science Process Skills (Unifying Concepts of Science)	Process Skills (Unifying Concepts of Science)	Unifying Concepts
Nature of science (NOS)	Nature of Science (NOS)	
Systems and energy (SAE)	Systems and Energy (SAE)	
Models and scale (MAS) and form and function (FAF)	Models and Scale (MAS) and Form and Function (FAF)	
Patterns of change (POC)	Patterns of Change (POC)	
Personal, social, and technological perspectives (includes design)	Personal, Social, Technological Perspectives	
Science skills for information, communication and media literacy	Science Skills, Communication	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Earth Space Science	Earth Space Science	Earth Space Science
The Earth and Earth materials, as we know them today, have developed over long periods of time, through constant change processes (atmosphere, climate, and weather)	Earth and Materials: Atmosphere, Climate, Weather	
The Earth and Earth materials, as we know them today, have developed over long periods of time, through constant change processes (composition and features)	Earth and Materials: Composition and Features	
The Earth and Earth materials, as we know them today, have developed over long periods of time, through constant change processes (fossils and geologic time, processes and rates of change, rock cycle, and water)	Earth and Materials: Fossils, Time, Rates, Cycles	
The Earth is part of a solar system, made up of distinct parts, which have temporal and spatial interrelationships. The origin and evolution of galaxies and the universe demonstrate fundamental principles of physical science across vast distances and time.	Solar System: Earth, Sun, and Moon,	
Life Science	Life Science	Life Science
All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, and species); classification	Structures and Characteristics: Classification	
All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species); living things and organization	Structures and Characteristics: Living Things	



All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species); reproduction, humans are similar to other species in many ways, and yet are unique among Earth's life forms.	Structures and Characteristics: Reproduction	
Energy flows and matter recycles through an ecosystem: environment	Energy and Matter: Environment	
Energy flows and matter recycles through an ecosystem: flow of energy and recycling of matter	Energy and Matter: Flow and Recycling of Materials	
Groups of organisms show evidence of change over time (e.g. Evolution, natural selection, structures, behaviors, and biochemistry): change, evidence of evolution, natural selection, and disease; humans are similar to other species in many ways, and yet are unique among Earth's life forms.	Change, Evolution, Natural Selection. and Disease	
Physical Science	Physical Science	Physical Science
All living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another (independent of size/amount of substance): composition	Things are Composed of Matter (Composition)	
All living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another (independent of size/amount of substance): properties	Things are Composed of Matter (Properties)	
Energy is necessary for change to occur in matter. Energy can be stored, transferred and transformed, but cannot be destroyed (change and conservation)	Energy (Change and Conservation)	
Energy is necessary for change to occur in matter. Energy can be stored, transferred and transformed, but cannot be destroyed (energy)	Energy (Energy)	
The motion of an object is affected by force (force)	Motion of an Object (Force)	
The motion of an object is affected by force (motion)	Motion of an Object (Motion)	