

# Measures of Academic Progress (MAP) Alaska 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.

<b>Concepts and Process Goal Structure</b>	<b>Concepts and Processes DesCartes</b>	<b>Concepts and Processes Report Names</b>
<b>Science as Inquiry and Process</b>	<b>Science as Inquiry and Process</b>	<b>Inquiry and Process</b>
Inquiry and process: asking questions	Inquiry and Process: Asking Questions	
Inquiry and process: predicting and hypothesizing	Inquiry and Process: Predicting	
Inquiry and process: observing and describing	Inquiry and Process: Observing and Describing	
Inquiry and process: measuring	Inquiry and Process: Measuring	
Inquiry and process: classifying	Inquiry and Process: Classifying	
Inquiry and process: generalize, infer, conclude	Inquiry and Process: Generalize, Infer, Conclude	
Inquiry and process: communicating	Inquiry and Process: Communicating	
Inquiry and process: collecting, analyzing data	Inquiry and Process: Collecting, Analyzing Data	
Inquiry and process: developing models	Inquiry and Process: Developing Models	
Inquiry and process: designing a controlled experiment	Inquiry and Process: Design a Controlled Exp	
Inquiry and processes: controlling experimental variables	Inquiry and Processes: Controlling Exp Variable	



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History and Nature of Science	History and Nature of Science	History and Nature of Sci
Develop an understanding that historical perspectives of scientific explanations demonstrate that scientific knowledge changes over time, building on prior knowledge	Scientific Knowledge Changes Over Time	
Develop an understanding that the advancement of scientific knowledge embraces innovation and requires empirical evidence, repeatable investigations, logical arguments, and critical review in striving for the best possible explanations of the natural world	Scientific Evidence	
Develop an understanding that advancements in science depend on curiosity, creativity, imagination, and a broad knowledge base	Process: Integrity, Reason, Review	
Technology: [Science, Technology, and Society]	Technology: [Science, Technology, and Society]	

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<b>General Science Goal Structure</b>	<b>General Science DesCartes</b>	<b>General Science Report Names</b>
<b>Concepts of Physical Science</b>	<b>Concepts of Physical Science</b>	<b>Concepts: Physical Science</b>
Properties of matter, structure and behavior	Properties of Matter, Structure and Behavior	
Energy: transformed, transferred, conserved	Energy: Transformed, Transferred, Conserved	
Interactions between matter and energy:	Interactions Between Matter and Energy:	
Motion and forces	Motion and Forces	
<b>Concepts of Life Science</b>	<b>Concepts of Life Science</b>	<b>Concepts: Life Science</b>
Changes in life forms over time	Changes in Life Forms Over Time	
Understanding of living organisms	Understanding of Living Organisms	
Transfer, transformation of matter, energy	Transfer, Transformation of Matter, Energy	
<b>Concepts of Earth Science</b>	<b>Concepts of Earth Science</b>	<b>Concepts: Earth Science</b>
Earth: geochemical cycles	Earth: Geochemical Cycles	
Earth: origins, process, force, composition	Earth: Origins, Process, Force, Composition	
Earth: cyclical changes from sun; solar system	Earth: Cyclical Changes From Sun; Solar System	
Universe: theories of origin and evolution	Universe: Theories of Origin And Evolution	

