

Measures of Academic Progress (MAP) Kentucky-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
Students Understand Scientific Ways of Thinking and Working and Use Those Methods to Solve Real-Life Problems, and Students Identify and Analyze Systems and the Ways Their Components Work Together or Affect Each Other.	Scientific Ways, Thinking, Working, Analyze Systems	Scientific Way and Systems
Using appropriate tools for observations	Using Appropriate Tools for Observations	
Design and conduct investigations and experiments	Design and Conduct Investigations and Experiments	
Ask and develop questions	Ask and Develop Questions	
[The way scientists think and work] curiosity, honesty, openness, skepticism, [bias], ethics, [scientific inquiry], work individually and with others to design and conduct fair test, distinguish between a scientific law, theory, hypothesis and unsupported supposition/claim, and keeping careful records	The Way Scientists Think and Work	
[Communicate], investigate and explain	Communicate, Investigate and Explain	
Models and systems	Models and Systems	
Technology and tools	Technology and Tools	

Students Identify, Analyze, and Use Patterns Such as Cycles and Trends to Understand Past and Present Events and Predict Possible Future Events	Students Identify, Analyze, and Use Patterns	Analyze and use Patterns
Predict, hypothesize, analyze, interpret, infer, work with data to find patterns and make conclusions	Work With Data, Find Patterns and Make Conclusions	
Cause and effect relationship	Cause and Effect Relationship	
Classification	Classification	

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General Science Goal Structure	General Science DesCartes	General Science Report Names
Physical Science	Physical Science	Physical Science
Structure and transformation of matter	Structure and Transformation of Matter	
Motion and forces	Motion and Forces	
Earth/ Space Science	Earth, Space Science	Earth, Space Science
The Earth and the universe: the Earth	The Earth and the Universe: The Earth	
The Earth and the universe: the universe	The Earth and the Universe: The Universe	
Biological Science	Biological Science	Biological Science
Unity and diversity	University and Diversity	
Biological change	Biological Change	
Unifying Concepts	Unifying Concepts	Unifying Concepts
Energy transformations	Energy Transformations	
Interdependence	Interdependence	