

NSCAS Science General Assessment Blueprint

Grade	Domain	Topic/Standard	Number of Tasks	Total Number of Operational Items	Weight or Percentage Range	Tasks Could Include the Following:	
						Science and Engineering Practices	Crosscutting Concepts
5	Physical Sciences	SC.5.3.1 Structure and Properties of Matter	1-2	6-10	23-39%	Ask Questions and Define Problems Developing and Using Models Planning and Carrying out Investigations Analyzing Data Using Mathematics and Computational Thinking Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information	Patterns Cause and Effect Scale, Proportion, and Quantity Systems and Systems Models Energy and Matter Structure and Function Stability and Change
	Life Sciences	SC.5.8.2 Matter and Energy in Organisms and Ecosystems	1	5-8	16-31%		
	Earth and Space Sciences	SC.5.11.3 Space Systems	2-3	10-16	33-62%		
		SC.5.13.4 Earth's Systems					
	TOTALS	4-6	26-30				

Grade	Domain	Topic/Standard	Number of Tasks	Total Number of Operational Items	Weight or Percentage Range	Tasks Could Include the Following:	
						Science and Engineering Practices	Crosscutting Concepts
8	Physical Sciences	SC.8.1.1 Forces and Interactions	2-3	10-18	27-60%	Ask Questions and Define Problems Developing and Using Models Planning and Carrying out Investigations Analyzing Data Using Mathematics and Computational Thinking Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information	Patterns Cause and Effect Scale, Proportion, and Quantity Systems and Systems Models Energy and Matter Structure and Function Stability and Change
		SC.8.2.2 Waves and Electromagnetic Radiation					
		SC.8.4.3 Energy					
	Life Sciences	SC.8.9.4 Heredity	1-2	6-10	17-33%		
		SC.8.10.5 Natural Selection and Adaptions					
	Earth and Space Science	SC.8.11.6 Space Systems	1	5-8	14-27%		
		SC.8.14.7 History of Earth					
	TOTALS	4-6	30-36				

Approach on Integration of Science and Engineering Practices (SEPs) and Crosscutting Concepts (CCCs)

A range of SEPs and CCCs are integrated into the tasks as necessary to allow authentic sense-making of phenomena. After ensuring the blueprint requirements and statistical targets are met, the NWEA content team will target the following parameters:

- A minimum of four different SEPs are included across the tasks.
- A minimum of four different CCCs are included across the tasks.