Maine Science Blueprint – Grade 5

Coverage of Science Topics

All items on the Maine Science Assessment for Grade 5 are aligned to a science topic and to a specific performance expectation. To ensure ample coverage of all grade-level science topics, the blueprint specifies targets for the minimum and maximum number of operational score points aligned to each topic. For Grade 5, two topics—Earth's Systems and Space Systems: Stars and the Solar System—are combined in the blueprint to support reporting at the topic level.

Science Topic	Performance	Target		oerational ms	Target Operational Score Points			
	Expectations (PE) Percentage		Min Max		Min	Max		
Matter and Energy in Organisms and Ecosystems	5-PS3-1 5-LS1-1 5-LS2-1	30%	10	12	13	15		
Structure and Properties of Matter	5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4	30%	10	12	13	15		
Earth's Systems and Space Systems: Stars and the Solar System	5-PS2-1 5-ESS1-1 5-ESS1-2 5-ESS2-1 5-ESS2-2 5-ESS3-1	40%	13	15	17	19		
	Total	100%	36		4	45		



Coverage of Science Practices

To ensure appropriate coverage of the science practices, the majority of the Maine Science items (at least 90%) are aligned to a Science and Engineering Practice (SEP). Items that do not measure a SEP are aligned to a Disciplinary Core Idea (DCI) and sometimes a Crosscutting Concept (CCC).

The SEPs are grouped into three more general science practices—Investigate, Evaluate, and Reason Scientifically—based on the skills they entail. The blueprint specifies the target percentage of operational score points aligned to the three science practices.

Science Practice	Science and Engineering	Target Percent		perational ms	Target Operational Score Points			
	Practices (SEP)	Percent	Min	Max	Min	Max		
Investigate	SEP1 SEP3	30%	10	12	13	15		
Evaluate	SEP4 SEP5 SEP7	30%	10	12	13	15		
Reason Scientifically	SEP2 SEP6	30%	10	12	13	15		
	Total	90%	3	32	4:	41		



Student Experience by Test Session

The science assessment will include three, equal-length test sessions. The number of items and score points per session may vary slightly, but each session is designed to be completed in the designated testing time. Field test items are embedded in Session 2 and Session 3.

Session		Operational				Field Test				Total						
	Time (minutes)	Clusters	Clustered Items	Standalone Items	Total Items	Total Score Points	Clusters	Clustered Items*	Standalone Items	Total Items	Total Score Points	Clusters	Clustered Items	Standalone Items	Total Items	Total Score Points
Session 1	60	3	12	3	15	19	_	_	_	_	_	3	12	3	15	19
Session 2	60	3	12	_	12	15	1	4	_	4	5	4	16	_	16	20
Session 3	60	2	8	1	9	11	1	4	2	6	8	3	12	3	15	19
Total	180	8	32	4	36	45	2	8	2	10	13	10	40	6	46	58

