

Vermont Comprehensive Assessment Program (VTCAP)

Test Specifications Spring 2025

The Vermont Comprehensive Assessment Program (VTCAP) is administered in the spring of each academic school year in the following subjects and grades:

- English Language Arts (ELA) Grades 3-9
- Mathematics Grades 3-9
- Science Grades 5, 8, and 11

The ELA and Mathematics assessments will assess the Common Core State Standards (CSSS) for English Language Arts and Mathematics, respectively. The Science assessment will assess the Next Generation Science Standards (NGSS).

Practice tests will be available in advance of the administration, with the following features:

- same item types as the operational assessment
- very similar content blueprint (percentage of points in each reporting category)
- similar total length/number of items (though note some practice tests may be divided into a different number of sessions than the operational assessment)
- TTS and ASL accommodations
- session directions as seen in the operational assessment

Specifications for the assessment in each subject area are provided on the following pages.

ENGLISH LANGUAGE ARTS

English Language Arts (ELA) Assessment: Grades 3-9

Item Types

- MS-1 (Machine-Scored 1 point): 1 point; machine-scored multiple choice, multi-select, or technology-enhanced item interactions
- MS-2 (Machine-Scored 2 point): 2 points; machine-scored evidence-based selected response (two-part question; each part is a multiple-choice interaction), or technology-enhanced item interactions
- WP (Writing Prompt): 8 points; human-scored; single prompt/passage-based; two multi-trait rubrics Written Expression and Conventions

All ELA items are associated with passages/stimuli. For Reading, a set of items is administered with a single or paired passage. For Writing and Language (machine-scored items), a set of items is administered with an error-embedded passage. For Listening, a set of items is administered with an audio stimulus. For the Writing Prompt, the prompt is presented with a paired passage.

Operational Test Blueprint

The target distribution of content that will count towards student scores is presented in the table below.

			Grade	es 3-5	Grade	es 6-8	Gra	de 9
	English I	Language Arts	Target # Points	Target % Points	Target # Points	Target % Points	Target # Points	Target % Points
	Text	Literary Text	15	52%	8	28%	10	29%
	Туре	Informational Text	8	28%	15	52%	18	53%
tening		Key Ideas and Details	9-11	31-38%	7-11	24-38%	11-13	32-38%
List	Reading	Craft and Structure	7-9	24-31%	6-10	21-34%	9-11	26-32%
eading &	Cluster	Integration of Knowledge and Ideas	4-6	14-21%	4-6	14-21%	4-7	12-21%
ŭ2	Listening	1	6	20%	6	20%	6	18%
		Total	29	100%	29	100%	34	100%
ge	W&L	Writing Analysis	9-11	41-50%	9-11	41-50%	6-9	23-35%
anguaç	Passage Sets	English Language Conventions	3-5	14-23%	3-5	14-23%	9-12	35-46%
& Γ	Writing	Written Expression	4	18%	4	18%	4	15%
ting	Prompt	Conventions	4	18%	4	18%	4	15%
Wri		Total	22	100%	22	100%	26	100%

ENGLISH LANGUAGE ARTS

The target distribution of test points based on the Depth of Knowledge (DOK) of the items has separate specifications for Reading & Listening and Writing & Language.

	DOK	Percent of Test Points, Grades 3-9
	Level 1	0-20%
Reading & Listening	Level 2	50-70%
Reduing & Listening	Level 3	20-40%
	Total	100%
	Level 1	15-25%
Writing 8 Longuage	Level 2	40-60%
Writing & Language	Level 3	15-35%
	Total	100%

Student Testing Experience

The ELA Assessment is administered as an adaptive assessment.

The number and types of items that will be administered to students are shown in the table below. Operational items count towards student scores, while field test items are "tryout" items that do not count toward student scores. The total number of items may vary slightly across administrations based on differences in the types of items associated with a passage set, e.g., MS-1 vs MS-2, but the total points determining the student score will always be the same.

		Grades	3-8			Grade	9	
	Passage Sets/ Stimuli	MS-1 & MS-2	WP	Total Items	Passage Sets/ Stimuli	MS-1 & MS-2	WP	Total Items
Operational Items	8	38-43	1	39-44	9	36-48	1	37-49
Field Test Items	2	12-13	0	12-13	2	12-13	0	12-13
Total Student Experience	10	50-56	1	51-57	11	48-61	1	49-62
Estimated Testing Time	Session 1: 6 Session 2: 7 Total: 160-1	60-65 min 100-105 mii 170 min	n	Session 1: 60-65 min Session 2: 105-115 min Total: 160-180 min				

MATHEMATICS

Mathematics Assessment: Grades 3-9

Item Types

- MS-1 (Machine-Scored 1 point): 1 point; machine-scored multiple choice, multi-select, or technology-enhanced item interactions
- MS-2, MS-3 (Machine-Scored 2 point, 3 point): Grade 9 only; 2 or 3 points; machinescored; multi-part question composed of a combination of machine-scored interactions (multiple choice, multi-select, technology-enhanced)
- CR-3 (Constructed Response 3 point): Grades 3-8; 3 points; human scored; two trait rubric – 2 points Concepts and Procedures, 1 point Mathematical Practices
- CR-6 (Constructed Response 6 point): Grades 3-8; 6 points; human scored; two trait rubric – 4 points Concepts and Procedures, 2 points Mathematical Practices

Operational Test Blueprint

The target distribution of content that will count towards student scores is presented in the tables below.

Grades 3-5

			Gra	de 3	Grad	de 4	Gra	de 5
	Mathematio	S	Target # Points	Target % Points	Target # Points	Target % Points	Target # Points	Target % Points
	Operations and Alg Thinking	12-18	24-35%	10-16	20-31%	7-11	14-22%	
res	Number and Operations in Base Ten, Number and Operations – Fractions	Number and Operations in Base Ten	5-7	10-14%	8-10	16-20%	7-13	14-25%
Procedu		Number and Operations – Fractions	8-10	16-20%	10-16	20-31%	11-15	22-29%
ots and		Total (NBT/NF)	13-17	25-33%	18-26	35-51%	18-28	35-55%
concep	Measurement and	Measurement and Data	11-15	22-29%	6-10	12-20%	10-14	20-27%
0	Data, Geometry	Geometry	3-5	6-10%	3-5	6-10%	4-8	8-16%
		Total (MD/G)	14-19	27-37%	9-14	18-27%	14-22	27-43%
		Subtotal	45	88%	45	88%	45	88%
Practices	Constructed Respo Mathematical Pract	onse ices*	6	12%	6	12%	6	12%
		Total	51	100%	51	100%	51	100%

MATHEMATICS

Grades 6-8

			Gra	de 6	Gra	de 7	Grade 8	
	Mathema	tics	Target # Points	Target % Points	Target # Points	Target % Points	Target # Points	Target % Points
	Ratios and Propo Relationships	rtional	8-12	15-22%	8-12	15-22%		
S	Functions						10-16	18-29%
edure	The Number	The Number System	8-12	15-22%	6	11%	4	7%
Proc	System, Expressions and Equations	Expressions and Equations	8-12	15-22%	8-16	15-30%	11-17	20-31%
and		Total (NS/EE)	16-24	30-44%	14-22	26-41%	15-21	27-38%
pts	Geometry and Statistics and	Geometry	6-10	11-19%	6-10	11-19%	10-16	18-29%
once		Statistics and Probability	6-10	11-19%	10-12	19-22%	10-12	18-22%
S	Probability	Total (G/SP)	12-20	22-37%	16-22	30-41%	20-28	36-51%
		Subtotal	48	89%	48	89%	49	89%
Practices	Constructed Res Mathematical Pra	oonse ctices*	6	11%	6	11%	6	11%
		Total	54	100%	54	100%	55	100%

***Constructed response items** (Grades 3-8) are scored for both Concepts and Procedures and Mathematical Practices. Across the 4 operational constructed response items in the test, a total of 6 points from the Mathematical Practices rubric are counted for the student's score.

Grade 9

		Gra	de 9
	Mathematics	Target # Points	Target % Points
dures	Number and Quantity/Algebra	8-12	18-27%
Proced	Algebra/Functions	14-18	31-40%
ts and	Geometry	9-13	20-29%
Concep	Statistics and Probability	6-10	13-20%
	Total	45	100%

MATHEMATICS

The target distribution of test points based on the Depth of Knowledge (DOK) of the machinescored items changes across grades.

DOK	Percent of Test Points, Grades 3-6	Percent of Test Points, Grades 7-8	Percent of Test Points, Grade 9
Level 1	5-25%	0-30%	0-30%
Level 2	50-80%	50-80%	25-80%
Level 3	5-30%	5-30%	0-5%
Total	100%	100%	100%

Many of the mathematics items in the assessment are aligned to not only standards for Concepts and Procedures, but also Mathematical Practices. The proportion of test points also associated with various mathematical practices is shown in the table below. Note for grade 9, these are targets; if the target points are met the practices will be reported with testing results.

Mathematical Practices	Test Points	Percent of Total Test Points, Grades 3-5	Percent of Total Test Points, Grades 6-8	Percent of Total Test Points, Grade 9	
Problem Solving, Reasoning, and Argument	<u>></u> 8	<u>≥</u> 16%	<u>≥</u> 15%	<u>≥</u> 18%	
Modeling, Patterns, and Structure	<u>></u> 8	<u>></u> 16%	<u>></u> 15%	<u>></u> 18%	

Student Testing Experience

The Mathematics Assessment is administered as an adaptive assessment.

The number and types of items that will be administered to students are shown in the table below. Operational items count towards student scores, while field test items are "tryout" items that do not count toward student scores. For grade 9, the total number of items may vary slightly across administrations based on differences in the types of items, e.g., MS-1 vs MS-2 or MS-3, but the total points determining the student score will always be the same.

		Grades 3-5				Grades 6-7				Gra	ide 8		Grade 9		
	MS-1	CR-3	CR-6	Total Items	MS-1	CR-3	CR-6	Total Items	MS-1	CR-3	CR-6	Total Items	MS-1	MS-2/ MS-3	Total Items
Operational Items	33	2	2	37	36	2	2	40	37	2	2	41	36-45	0-3	39-45
Field Test Items	5		1	6	5	5 1		6	5	1		6	10	0	10
Total Student Experience	38	Ę	5	43	41	41 5		46	42	ų	5	47	46-55	0-3	49-55
Estimated Testing Time	Session Session Total: 1	n 1: 50-58 n 2: 60-68 10-120 r	5 min 5 min nin		Session Session Total: 1	Session 1: 55-60 min Session 2: 60-65 min Total: 115-125 min		Session 1: 60-65 min Session 2: 60-65 min Total: 120-130 min			Session 1: 60-65 min Session 2: 60-65 min Total: 120-130 min				

SCIENCE

Science Assessment: Grades 5, 8, 11

Item Types

- MS-1 (Machine-Scored 1 point): 1 point; machine-scored; multiple choice, multi-select, or technology-enhanced item interactions
- MS-2 (Machine-Scored 2 point): 2 points; machine-scored; two-part question composed of a combination of two machine-scored interactions (multiple choice, multi-select, technology-enhanced)
- OE (Open Ended): 4 points; human-scored; holistic 0-4 score point rubric

All science items are multi-dimensional, aligning to at least two, if not all three, of the science dimensions (DCI, SEP, CCC) for the performance expectation.

Many science items are administered together in groupings called clusters, associated with a common phenomenon-based stimulus. Clusters are administered in all three science domains (Physical Sciences, Life Sciences, Earth and Space Sciences).

Operational Test Blueprint

The target distribution of content that will count towards student scores is presented in the table below.

	Gra	de 5	Gra	de 8	Grade 11		
Science Domain	Target # Points	Target % Points	Target # Points	Target % Points	Target # Points	Target % Points	
Physical Sciences	24-28	40%	20-24	35%	22-26	35%	
Life Sciences	18-22	30%	20-24	35%	22-26	35%	
Earth and Space Sciences	18-22	30%	18-22	30%	18-22	30%	
Total	64	100%	64	100%	68	100%	

Note items aligned to ETS standards are also assessed but because of the small number of standards in comparison to the total standards overall, ETS items are reported out within the reporting category for which the content domain matches the context of the design problem presented.

For Science, a Cognitive Complexity framework other than DOK is used. The framework rates the complexity of four indicators (stimulus, science and engineering practice, disciplinary core idea, crosscutting concept) as low, medium, or high. On a test form, all operational test points for each cognitive complexity level (low, medium, high) are summed across the four indicators. At least 10% of the points should be high cognitive complexity and no more than 35% of the points should be low cognitive complexity.

SCIENCE

Student Testing Experience

The Science Assessment is administered as an adaptive assessment.

The number and types of items that will be administered to students are shown in the table below. Operational items count towards student scores, while field test items are "tryout" items that do not count toward student scores.

			Grade	es 5, 8					Gra	ade 11		
		Cluster Items		Standalone Items			Cluster Items			Standa Iter	alone ns	
	Stim	MS-1	MS-2	MS-2	OE	Total Items	Stim	MS-1	MS-2	MS-2	OE	Total Items
Operational Items	6	12	12	8	3	35	6	12	12	10	3	37
Field Test Items	2	4	4	4	1	13	2	4	4	5	1	14
Total Student Experience	8	16	16	12	4	48	8	16	16	15	4	51
Estimated Testing Time*	Session 1: 70-75 min Session 2: 70-75 min Total: 140-150 min						Session 1: 75-80 min Session 2: 75-80 min Total: 150-160 min					

*Students taking an accommodated form will be administered the same number and types of items divided into three sessions, rather than two. In those cases, the timing is as follows:

Estimated	Session 1: 50-55 min
Testing Time*	Session 2: 50-55 min Session 3: 50-55 min Total: 150-165 min