

# Colorado Curriculum Matrix Summary

## Colorado Student Assessment Program

The Colorado Student Assessment Program (CSAP) is designed to provide empirical data for assessing how students in Colorado are progressing toward meeting academic standards. Further, this data is also used to assess how schools are doing to ensure learning success of students. Detailed information concerning the Colorado Student Assessment Program may be obtained at [www.cde.state.co.us/index\\_assess.html](http://www.cde.state.co.us/index_assess.html).

## Reading/Writing

The core of The Colorado Model School Content Standards for Reading and Writing is to teach students to communicate clearly through reading, writing, speaking and listening. These standards set expectations for students to become fluent readers, writers and speakers; to be able to communicate effectively, concisely, coherently, and imaginatively; to recognize the power of language and use that power ethically and creatively; and to be at ease communicating in an increasingly technological world.

## Priority Designation

Information necessary to make priority designations was obtained from the Colorado Department of Education's (CDE) Unit of Student Assessment. The CSAP Item Map web page can be found at [http://www.cde.state.co.us/cdeassess/documents/csap/csap\\_item\\_maps.html](http://www.cde.state.co.us/cdeassess/documents/csap/csap_item_maps.html). The 2007 CSAP Item Map provides data concerning the number of times each assessment objective was tested at each grade level. This data was used to determine the priority designations. An average for the frequency each assessment objective tested was calculated at each grade level. The standard deviation was returned and subtracted from the mean to establish the cut-off point that separates the Medium (M) designations from High (H) designations. Low (L) designations were only assigned to assessment objectives that were not tested. The results of these calculations and the priority designations can be found in Table 1 below. The Reading/Writing priority designation for each grade level (ELA CSAP data summary) is presented in Table 2 below.

**Table 1: Reading/Writing Priority Designation Data**

	Mean	STD	Mean – STD	Designations		
				L = Low	M = Medium	H = High
<b>Grade 3</b>	5.5	2.87	2.63	0	1-2	>2
<b>Grade 4</b>	5.62	3.57	2.05	0	1-2	>2
<b>Grade 5</b>	5.77	4.22	1.55	0	1	>1
<b>Grade 6</b>	5.10	3.25	1.85	0	1	>1
<b>Grade 7</b>	5.36	3.21	1.95	0	2	>2
<b>Grade 8</b>	5.25	3.18	2.07	0	1-2	>2
<b>Grade 9</b>	5.28	3.28	2.00	0	1-2	>2
<b>Grade 10</b>	5.28	3.24	2.04	0	1-2	>2

**Table 2. Reading/Writing CSAP Data Summary**

Reading/Writing			CSAP			*NESS		
	Standards	Assessment Objectives	H	M	L	H 1-35	M 36-70	L 71+
<b>Grade 3</b>	3	17	9	3	5	14	2	1
<b>Grade 4</b>	6	34	21	8	5	28	5	1
<b>Grade 5</b>	6	34	21	5	8	25	9	0
<b>Grade 6</b>	6	33	25	4	4	25	8	0
<b>Grade 7</b>	6	39	21	7	11	31	8	0
<b>Grade 8</b>	6	35	24	5	6	29	6	0
<b>Grade 9</b>	6	36	25	5	6	31	5	0
<b>Grade 10</b>	6	36	23	6	7	29	7	0
<b>Totals</b>	45	264	169	43	52	212	50	2

### Mathematics

The 1995 version of the Colorado Model Content Standards: Mathematics was amended in September, 2005. There are 6 content standards in the amended document. They are aligned with numbers and number sense, algebraic methods, data collection, analysis, statistics, and probability, geometric concepts, measurement, and the development and use of computational techniques. The Colorado Model Content Standards: Mathematics can be assessed at [http://www.cde.state.co.us/cdeassess/documents/olr/k12\\_standards.html](http://www.cde.state.co.us/cdeassess/documents/olr/k12_standards.html).

### Priority Designations

Information necessary to make priority designations was obtained from the Colorado Department of Education's (CDE) Unit of Student Assessment. The CSAP Item Map web page can be found at [http://www.cde.state.co.us/cdeassess/documents/csap/csap\\_item\\_maps.html](http://www.cde.state.co.us/cdeassess/documents/csap/csap_item_maps.html). The 2007 CSAP Item Map provides data concerning the number of times each assessment objective was tested at each grade level. This data was used to determine the priority designations. An average for the frequency each assessment objective tested was calculated at each grade level. The standard deviation was returned and subtracted from the mean to establish the cut-off point that separates the Medium (M) designations from High (H) designations. Low (L) designations were only assigned to assessment objectives that were not tested. The results of these calculations and the priority designations can be found in Table 3 below. The Mathematics priority designation for each grade level (ELA CSAP data summary) is presented in Table 4 below.

**Table 3: Mathematics Priority Designation Data**

	Mean	STD	Mean – STD	Designations		
				L = Low	M = Medium	H = High
<b>Grade 3</b>	1.22	0.49	.93	0	1	>1
<b>Grade 4</b>	2.63	2.04	.59	0	1	>1
<b>Grade 5</b>	2.18	1.62	.56	0	1	>1
<b>Grade 6</b>	2.75	1.86	.89	0	1	>1
<b>Grade 7</b>	2.6	2.00	.60	0	1	>1
<b>Grade 8</b>	3.22	2.90	.22	0	1	>1
<b>Grade 9</b>	2.2	2.0	.20	0	1	>1
<b>Grade 10</b>	1.89	1.18	.71	0	1	>1

**Table 4. Mathematics CSAP Data Summary**

Mathematics			CSAP			*NESS		
	Standards	Assessment Objectives	H	M	L	H 1-16	M 17-42	L 43+
<b>Grade 3</b>	6	47	4	19	24	27	17	3
<b>Grade 4</b>	6	48	20	15	13	33	12	3
<b>Grade 5</b>	6	69	23	21	25	46	21	2
<b>Grade 6</b>	6	48	20	12	16	34	13	1
<b>Grade 7</b>	6	45	19	13	13	33	11	1
<b>Grade 8</b>	6	36	13	14	9	25	10	1
<b>Grade 9</b>	6	44	14	26	4	20	20	4
<b>Grade 10</b>	6	63	22	23	18	36	23	4
<b>Totals</b>	48	400	135	143	122	254	127	19

**Science**

The Colorado Model Content Standards were first adopted in May, 1995. These standards were revised during the 2005-2006 school year and adopted in February, 2007.

**Priority Designations**

The science curriculum matrices in this document contain the revised 2007 Colorado Model Content Standards for Science. It should be noted that the 2007 CSAP science test data is derived from the 1995 Colorado Content Standards. Therefore, the latest science test data does not align with the 2007 science standards. The latest test data will not be available until the results of the spring 2008 testing period is analyzed and published.

Consequently, CSAP science data is not presented in the tables below. The table and matrices will be revised by International Center for Leadership in Education (ICLE) researchers as soon as this data is available. However, the National Essential Skills Study (NESS) descriptors have been aligned to The 2007 revised Colorado Model Content Standards for science. The results are in table 5 below.

**Table 5. Science CSAP Data Summary**

Science			CSAP			*NESS		
	Standards	Assessment Objectives	H	M	L	H 1-35	M 36-70	L 71+
<b>Grade 5</b>	6	51	<b>2007 CSAP data not yet available</b>			37	10	4
<b>Grade 8</b>	6	34				58	5	1
<b>Grades 10</b>	6	73				55	12	6
<b>Totals</b>	18	158				150	27	11

**Curriculum Matrix Summary  
Totals for CSAP Tested Reading/Writing,  
Mathematics and Science**

Table 6 below summarizes the test data totals for Reading/Writing, Mathematics, and Science assessed by the CSAP.

**Table 6. Totals for CSAP Tested Grade Levels in Reading/Writing, Mathematics, and Science**

State Assessment			CSAP			*NESS		
	Standards	Assessment Objectives	H	M	L	H 1-35	M 36-70	L 71+
<b>Reading/Writing</b>	45	264	169	43	52	212	50	2
<b>Mathematics</b>	48	400	135	143	122	254	127	19
<b>Science</b>	18	73	<b>2007 CSAP data not yet available</b>			55	12	6
<b>Grand Totals</b>	114	737	304	186	174	521	189	27

\***The National Essential Skills Study** asked participants to identify what they believe are the 20 to 30 most important topics in English language arts, mathematics, science, and social studies. The topics compiled for each content area were adapted from national standards as identified by the National Council of Teachers of English, the National Council of Teachers of Mathematics, the National Research Council, and the National Council for the Social Studies, and from various state standards. All topics were reviewed by teams of subject-specialist teachers. In all, 50 English language arts, 70 mathematics, 85 science, and 60 social studies topics were identified for incorporation in NESS.

**Curriculum Matrix Summary  
Total Percentages for CSAP Tested Assessment Objectives  
Reading/Writing, Mathematics and Science**

Table 7 below presents the number of Colorado Model Content Standards assessment objectives compared to the number of assessment objectives tested. Using this data, the percentages of CSAP assessment objectives tested were calculated.

**Table 7. Total Percentages for CSAP Tested Grade Levels in Reading/Writing, Mathematics, and Science.**

	#Assessment Objectives	# Assessment Objectives Tested	% Assessment Objectives Tested
<b>Reading/Writing</b>	264	212	80
<b>Mathematics</b>	400	278	70
<b>Science</b>	73	<b>2007 CSAP data not yet available</b>	
<b>ELA and Mathematics Totals</b>	664	490	74

## Information Sources

The Colorado Department of Education

[www.cde.state.ne.us](http://www.cde.state.ne.us)

Academic Standards

[http://www.cde.state.co.us/cdeassess/documents/olr/k12\\_standards.html](http://www.cde.state.co.us/cdeassess/documents/olr/k12_standards.html)

Assessment and Evaluation

[www.cde.state.co.us/index\\_assess.html](http://www.cde.state.co.us/index_assess.html).

[http://www.cde.state.co.us/cdeassess/documents/csap/csap\\_item\\_maps.html](http://www.cde.state.co.us/cdeassess/documents/csap/csap_item_maps.html).

