

## Indiana Curriculum Matrix Summary

### Indiana Statewide Testing for Educational Progress-Plus and End-of-Course Assessment

Indiana Statewide Testing for Educational Progress (ISTEP+) measures the academic performance of students in English/language arts and mathematics in Grades 3-9 and in science in Grades 6 and 7. These tests are criterion-referenced designed to measure students' mastery of the Indiana Academic Standards. The End-of-Course Assessments (ECA) are final exams measuring what students know and are able to do upon completion of targeted high school courses.

### Curriculum Matrix Priority Designations

#### English/language Arts

The 2007 data used to determine test priority designation for English/language Arts (ELA) were obtained for the **Group Academic Standards Summary Report**. These documents can be found at [www.doe.state.in.us/istep/2007/welcome.html](http://www.doe.state.in.us/istep/2007/welcome.html) under the heading **State Reports**. This information provided the number of test score points for each standard at each grade level. Standard deviations (STD) were calculated for each grade level and subtracted from the average (mean) number of test score points. This number established the cut-off point between Medium (M) priority designations and High (H) priority designations. Standards not tested were assigned a Low (L) priority designation. The results can be found in Table 1 below.

**Table 1: English Language Arts Priority Designation Data**

	Mean	STD	Mean – STD	Designations		
				L = Low	M = Medium	H = High
<b>Grade 3</b>	8*	2*	6	0	1-	>6
<b>Grade 4</b>	13*	3*	9	0	1-9	>9
<b>Grade 5</b>	13*	5*	8	0	1-8	>8
<b>Grade 6</b>	13*	6*	7	0	1-7	>7
<b>Grade 7</b>	13*	5*	8	0	1-8	>8
<b>Grade 8</b>	13*	6	7	0	1-7	>7
<b>Grade 9</b>	14*	5*	9	0	1-9	>9
<b>Grade 10</b>	14*	5*	9	0	1-9	>9

\*Rounded to the nearest whole number.

Table 2 below contains the summary of the priority designations at each grade level.

**Table 2: Indiana ISTEP+/ECA English Language Arts Data Summary**

English Language Arts			ISTEP+/ECA			**Curriculum Survey		
Grade	Standards	Learning Expectations	H	M	L	H 1-35	M 36-70	L 71 +
<b>Grade 2/ISTEP +3</b>	7	68	42	6	20	48	14	6
<b>Grade 3/ISTEP +4</b>	7	68	40	8	20	48	13	7
<b>Grade 4 ISTEP +5</b>	7	65	28	13	24	35	25	5
<b>Grade 5/ISTEP +6</b>	7	61	32	5	24	37	17	7
<b>Grade 6/ISTEP +7</b>	7	64	31	10	23	31	26	7
<b>Grade 7/ISTEP +8</b>	7	61	34	10	17	32	26	3
<b>Grade 8/ISTEP +9</b>	7	62	30	11	21	31	29	2
<b>Grade 9/ISTEP +10</b>	7	69	29	11	29	41	25	3
<b>Totals</b>	56	518	266	74	178	303	175	40

## Mathematics

The 2007 data used to determine test priority designation for mathematics were obtained for the **Group Academic Standards Summary Report**. These documents can be found at [www.doe.state.in.us/istep/2006/welcome.html](http://www.doe.state.in.us/istep/2006/welcome.html) under the heading **State Reports**. This information provided the number of test score points for each standard at each grade level. Standard deviations (STD) were calculated for each grade level and subtracted from the mean. This number established the cut-off point between Medium (M) priority designations and High (H) priority designations. Standards not tested were assigned a Low (L) priority designation. The results can be found in Table 3 below.

**Table 3: Mathematics Priority Designation Data**

	Mean	STD	Mean – STD	Designations		
				L = Low	M = Medium	H = High
<b>Grade 3</b>	11	2*	9	0	1-9	>9
<b>Grade 4</b>	12*	1*	11	0	1-11	>11
<b>Grade 5</b>	12	1	11	0	1-11	>11
<b>Grade 6</b>	12	1*	11	0	1-11	>11
<b>Grade 7</b>	12*	2*	10	0	1-10	>10
<b>Grade 8</b>	12*	3*	9	0	1-9	>9
<b>Grade 9</b>	13*	5*	8	0	1-5	>8
<b>Grade 10</b>	14*	7*	7	0	1-7	>7

\*Rounded to the nearest whole number.

Table 4 below contains the summary of the priority designations at each grade level.

**Table 4: Indiana Mathematics ISTEP+/ECA Data Summary**

	Mathematics		ISTEP+/ECA			**Curriculum Survey		
	Standards	Learning Expectations	H	M	L	H 1-35	M 36-70	L 71 +
<b>Grade 2/ISTEP +3</b>	6	44	23	21	0	29	14	1
<b>Grade 3/ISTEP +4</b>	6	61	44	17	0	39	19	3
<b>Grade 4 ISTEP +5</b>	7	58	52	6	0	44	13	1
<b>Grade 5/ISTEP +6</b>	7	50	39	11	0	34	15	1
<b>Grade 6/ISTEP +7</b>	7	58	51	7	0	41	15	2
<b>Grade 7/ISTEP +8</b>	7	51	44	7	0	32	15	4
<b>Grade 8/ISTEP +9</b>	7	50	43	7	0	25	23	2
<b>Algebra I/ISTEP +10</b>	9	54	37	0	17	19	26	9
<b>Totals</b>	56	426	333	76	17	263	140	23

## Science

The 2007 data used to determine test priority designation for science (grades 5 and 7) were obtained for the **Group Academic Standards Summary Report**. These documents can be found at [www.doe.state.in.us/istep/2006/welcome.html](http://www.doe.state.in.us/istep/2006/welcome.html) under the heading **State Reports**. The 2007 data used to determine test priority designations for Biology I were obtained at [http://www.doe.in.gov/core40eca/pdf/biology\\_teacher.pdf](http://www.doe.in.gov/core40eca/pdf/biology_teacher.pdf) in a publication entitled **Biology I-Core 40 End-of-Course Assessment Item Sampler**. This information provided the percentage of test items for each reporting category. Standard deviations (STD) were calculated for each grade level and subtracted

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from the mean. This number established the cut-off point between Medium (M) priority designations and High (H) priority designations. Standards not tested were assigned a Low (L) priority designation. The results can be found in Table 5 below.

**Table 5: Science Priority Designation Data**

	Mean	STD	Mean – STD	Designations		
				L = Low	M = Medium	H = High
<b>Grade 5</b>	11*	3*	8	0	1-8	>8
<b>Grade 7</b>	11	4*	7	0	1-7	>7
<b>Biology I</b>	20	1*	19	0	1-19	>19

\*Rounded to the nearest whole number.

Table 6 below contains the summary of the priority designations at each grade level.

**Table 6: Indiana ISTEP+/EAC Data Summary**

Science		ISTEP+/ECA			**Curriculum Survey			
	Standards	Learning Expectations	H	M	L	H 1-35	M 36-70	L 71 +
<b>Grade 4/ISTEP+ Grade 5</b>	6	52	43	9	0	34	8	10
<b>Grade 6/ISTEP+ Grade 7</b>	7	70	56	11	3	40	18	12
<b>Biology I</b>	2	51	41	10	0	44	7	0
<b>Totals</b>	15	173	140	30	3	118	33	22

Table 7 below summarizes the data for English Language Arts, Mathematics, and Science assessed by the ISTEP+ and End-of-Course Assessment (ECA) for **No Child Left Behind** (NCLB) purposes.

**Table 7. Total for All ISTEP+ and ECA Tested Grade Levels and Courses**

Indiana Academic Standards			ISTEP+/ECA			**Curriculum Survey		
Grade	Academic Standards	Learning Expectations	H	M	L	H 1-35	M 36-70	L 71 +
<b>ELA</b>	56	518	266	74	178	303	175	40
<b>Math</b>	56	426	333	76	17	263	140	23
<b>Science</b>	15	173	140	30	3	18	33	22
<b>Grand Total</b>	127	1117	739	180	198	584	348	85

Table 8 below contains a summary of total data for English Language Arts, Mathematics, and Science. This table shows comparisons between the total number of grade level/ course learning expectations and the total number of grade level learning expectations tested.

**Table 8. Percentage of Learning Expectations Tested**

	Learning Expectations	Learning Expectations Tested	Percent of Learning Expectations Tested
<b>English Language Arts</b>	518	340	63
<b>Mathematics</b>	426	409	96
<b>Science</b>	173	170	98
<b>TOTAL</b>	1117	919	82

## Resources

### Indiana Department of Education

<http://www.doe.state.in.us/welcome.html>

### Indiana's Academic Standards

<http://www.doe.state.in.us/standards/welcome.html>

### Assessment

<http://www.doe.state.in.us/standards/assessment.html>

### ISTEP+InfoCenter

<http://www.doe.state.in.us/istep/welcome.html>

### Core 40 End-of-Course Information Center

<http://www.doe.in.gov/core40eca/welcome.html>

### Fall 2006 ISTEP+ Results (State Reports)

<http://www.doe.state.in.us/istep/2006/welcome.html>



**\*\*Curriculum Survey** in the preceding charts refers to the *International Center for Leadership Education's Survey of Essential Skills*, a forced-ranking by approximately 20,000 adults of the 100 proficiencies deemed most important for high school graduates in each of English, math, and science. Proficiencies ranked 1-35 in each subject were assigned a High (H) rating. Items ranked 36-7- were assigned a Medium (M) rating, and proficiencies ranked 71+ were assigned a Low (L) rating. A complete description of the *Survey of Essential Skill* is provided elsewhere in this resource kit.