

# **APPENDIX L**

## **ACHIEVEMENT LEVEL SCORE DISTRIBUTIONS**

**Table L-1. 2016 MCAS: Achievement Level Distributions  
by Grade – ELA**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
3	Advanced	10.62	10.68	12.07
	Proficient	51.25	49.47	46.38
	Needs Improvement	32.60	32.58	33.20
	Warning	5.53	7.26	8.35
4	Advanced	11.54	11.77	13.51
	Proficient	53.13	46.12	41.35
	Needs Improvement	26.80	31.74	33.77
	Warning	8.52	10.37	11.38
5	Advanced	23.75	21.15	18.43
	Proficient	48.05	47.73	46.67
	Needs Improvement	22.80	22.75	26.79
	Warning	5.40	8.37	8.11
6	Advanced	23.36	18.67	16.71
	Proficient	52.22	52.65	52.49
	Needs Improvement	17.93	19.92	23.19
	Warning	6.50	8.76	7.61
7	Advanced	15.94	9.89	11.52
	Proficient	65.25	62.95	61.73
	Needs Improvement	15.27	21.08	21.19
	Warning	3.53	6.08	5.56
8	Advanced	20.11	25.88	13.92
	Proficient	63.18	54.16	65.99
	Needs Improvement	12.05	14.54	13.97
	Warning	4.66	5.42	6.12
HS	Advanced	46.59	49.12	41.15
	Proficient	45.27	42.75	48.97
	Needs Improvement	6.60	6.61	8.33
	Warning	1.54	1.52	1.55

**Table L-2. 2016 MCAS: Achievement Level Distributions  
by Grade – Mathematics**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
3	Advanced	40.19	31.90	31.07
	Proficient	33.86	39.48	38.29
	Needs Improvement	17.88	18.60	21.46
	Warning	8.07	10.03	9.17
4	Advanced	26.19	21.03	20.40
	Proficient	35.06	31.49	32.67
	Needs Improvement	31.40	38.21	37.05
	Warning	7.34	9.26	9.88
5	Advanced	33.43	30.53	30.86
	Proficient	32.55	32.18	31.01

continued

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
5	Needs Improvement	24.13	25.33	24.62
	Warning	9.90	11.96	13.51
6	Advanced	33.26	30.29	29.59
	Proficient	32.97	32.06	31.39
	Needs Improvement	22.16	24.55	25.89
	Warning	11.61	13.10	13.13
7	Advanced	28.43	22.21	17.54
	Proficient	31.68	33.12	33.32
	Needs Improvement	24.19	24.64	26.65
	Warning	15.70	20.03	22.48
8	Advanced	32.35	28.88	19.18
	Proficient	28.32	30.75	33.37
	Needs Improvement	23.72	23.08	29.36
	Warning	15.61	17.29	18.10
HS	Advanced	53.76	53.26	53.02
	Proficient	23.90	25.58	25.68
	Needs Improvement	15.47	13.94	15.24
	Warning	6.87	7.22	6.05

**Table L-3. 2016 MCAS: Achievement Level Distributions by Grade – STE**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
5	Advanced	16.30	15.86	19.93
	Proficient	31.90	35.51	33.91
	Needs Improvement	38.96	37.34	34.87
	Warning	12.84	11.29	11.28
8	Advanced	5.83	3.10	4.13
	Proficient	35.56	39.34	38.05
	Needs Improvement	40.83	40.50	41.26
	Warning	17.77	17.05	16.55

**Table L-4. 2016 MCAS: Achievement Level Distributions – High School Biology**

Achievement Level	Percent in Level		
	2016	2015	2014
Advanced	31.27	25.22	27.17
Proficient	38.95	42.88	39.95
Needs Improvement	19.57	21.36	21.63
Warning	10.21	10.54	11.25

**Table L-5. 2016 MCAS: Achievement Level Distributions – High School Chemistry**

Achievement Level	Percent in Level		
	2016	2015	2014
Advanced	22.67	24.95	30.21
Proficient	25.51	35.26	30.49
Needs Improvement	21.21	21.18	18.55
Warning	30.61	18.61	20.75

**Table L-6. 2016 MCAS: Achievement Level Distributions – High School Introductory Physics**

Achievement Level	Percent in Level		
	2016	2015	2014
Advanced	25.60	29.10	23.94
Proficient	40.99	39.81	39.54
Needs Improvement	23.56	21.89	26.28
Warning	9.86	9.20	10.25

**Table L-7. 2016 MCAS: Achievement Level Distributions – High School Technology/Engineering**

Achievement Level	Percent in Level		
	2016	2015	2014
Advanced	5.92	7.09	6.63
Proficient	44.50	41.17	41.78
Needs Improvement	33.82	36.78	35.81
Warning	15.76	14.95	15.78

**Table L-8. 2016 MCAS-Alt: Achievement Level Distributions by Grade – ELA**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
3	11	0.34	0.00	0.08
	10	55.52	80.64	75.39
	9	38.88	6.89	5.82
	8	1.44	0.74	1.15
	7	3.82	11.73	17.56
4	11	0.00	0.24	0.08
	10	58.97	75.14	72.19
	9	36.75	19.04	20.03
	8	1.35	0.94	0.47
	7	2.94	4.64	7.23
5	11	0.08	0.00	0.00
	10	59.81	79.58	72.82
	9	33.57	5.45	3.79
	8	1.58	0.49	1.44
	7	4.96	14.48	21.95

continued

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
6	11	0.09	0.00	0.00
	10	58.28	78.66	62.50
	9	35.56	4.75	4.09
	8	1.30	0.64	3.40
	7	4.77	15.94	30.02
7	11	0.25	0.00	0.00
	10	57.67	72.72	60.12
	9	34.12	16.65	29.35
	8	1.76	0.84	2.59
	7	6.20	9.79	7.94
8	11	0.00	0.00	0.09
	10	57.00	73.97	57.98
	9	34.92	5.57	3.39
	8	1.89	0.55	2.32
	7	6.19	19.91	36.22
HS	13	0.00	0.10	0.10
	12	0.00	0.00	0.00
	11	0.00	0.10	0.00
	10	46.67	61.06	54.67
	9	41.61	23.05	22.30
	8	2.18	0.83	0.83
	7	9.53	14.85	22.10

**Table L-9. 2016 MCAS-Alt: Achievement Level Distributions by Grade – Mathematics**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
3	11	0.00	0.00	0.00
	10	84.42	82.50	81.62
	9	5.48	7.63	6.56
	8	1.37	1.16	1.15
	7	8.73	8.71	10.66
4	11	0.00	0.31	0.00
	10	85.60	79.31	83.73
	9	6.92	7.05	6.33
	8	0.80	1.10	0.80
	7	6.68	12.23	9.13
5	11	0.08	0.00	0.00
	10	80.06	81.20	80.73
	9	6.72	6.99	4.52
	8	1.00	0.64	1.56
	7	12.13	11.16	13.19
6	11	0.00	0.15	0.00
	10	83.93	82.11	74.83
	9	7.19	5.55	6.05
	8	0.68	1.31	4.18
	7	8.21	10.87	14.94

continued

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
7	11	0.41	0.16	0.00
	10	80.26	80.38	76.73
	9	6.06	7.06	6.37
	8	0.74	1.15	2.87
	7	12.53	11.25	14.02
8	11	0.09	0.18	0.00
	10	78.86	74.43	70.83
	9	10.26	7.82	6.75
	8	0.61	0.79	2.95
	7	10.18	16.78	19.48
HS	13	0.00	0.00	0.00
	12	0.29	0.10	0.10
	11	0.20	0.31	0.20
	10	70.02	62.45	63.84
	9	16.02	20.61	17.16
	8	1.37	1.43	0.92
	7	12.11	15.10	17.77

**Table L-10. 2016 MCAS-Alt: Achievement Level Distributions by Grade – STE**

Grade	Achievement Level	Percent in Level		
		2016	2015	2014
5	11	0.08	0.00	0.00
	10	82.87	77.97	71.13
	9	9.40	13.46	15.05
	8	0.67	0.35	1.32
	7	6.97	8.22	12.49
8	11	0.00	0.19	0.00
	10	81.53	75.07	65.58
	9	12.41	13.91	15.80
	8	0.37	0.47	2.45
	7	5.69	10.36	16.17

**Table L-11. 2016 MCAS-Alt: Achievement Level Distributions – High School Biology**

Achievement Level	Percent in Level		
	2016	2015	2014
13	0.00	0.00	0.00
12	0.12	0.00	0.00
11	0.00	0.26	0.00
10	72.64	64.79	57.04
9	13.38	15.88	16.77
8	1.31	0.38	1.10
7	12.54	18.69	25.09

**Table L-12. 2016 MCAS-Alt: Achievement Level Distributions – High School Chemistry**

Achievement Level	Percent in Level		
	2016	2015	2014
13	0.00	0.00	0.00
12	0.00	0.00	0.00
11	2.27	0.00	8.93
10	68.18	77.78	57.14
9	13.64	11.11	14.29
8	0.00	0.00	1.79
7	15.91	11.11	17.86

**Table L-13. 2016 MCAS-Alt: Achievement Level Distributions – High School Introductory Physics**

Achievement Level	Percent in Level		
	2016	2015	2014
13	0.00	0.00	0.00
12	0.00	0.00	3.33
11	4.29	6.45	1.67
10	57.14	50.00	55.00
9	15.71	24.19	23.33
8	8.57	3.23	0.00
7	14.29	16.13	16.67

**Table L-14. 2016 MCAS-Alt: Achievement Level Distributions – High School Technology/Engineering**

Achievement Level	Percent in Level		
	2016	2015	2014
13	0.00	0.00	0.00
12	0.00	0.00	0.00
11	0.00	0.00	0.00
10	64.36	76.14	57.14
9	21.78	12.50	25.40
8	2.97	2.27	0.00
7	10.89	9.09	17.46