

# Appendix M

## RAW TO SCALED SCORE DISTRIBUTIONS

**Table M-1. 2012 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 3**

<i>Raw Score</i>	<i>2012</i>			<i>2011</i>		
	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	206	9.4	1	204	9.1	1
7	206	8.1	1	206	7.9	1
8	208	7.0	1	206	7.0	1
9	208	6.1	1	208	6.2	1
10	208	5.4	1	208	5.6	1
11	210	4.8	1	210	5.1	1
12	210	4.4	1	210	4.7	1
13	212	4.0	1	210	4.2	1
14	212	3.7	1	212	3.8	1
15	214	3.4	1	212	3.4	1
16	214	3.1	1	214	3.0	1
17	216	2.8	1	214	2.7	1
18	216	2.6	1	216	2.5	1
19	218	2.4	1	216	2.3	1
20	218	2.7	1	218	2.1	1
21	220	3.0	2	218	2.0	1
22	220	3.3	2	218	2.3	1
23	222	3.6	2	220	2.7	2
24	222	4.0	2	220	3.0	2
25	224	4.3	2	222	3.4	2
26	226	4.2	2	222	3.8	2
27	226	4.1	2	224	4.2	2
28	228	3.9	2	226	4.1	2
29	230	3.9	2	226	4.1	2
30	230	3.8	2	228	4.1	2
31	232	3.8	2	230	4.1	2
32	234	3.8	2	232	4.1	2
33	234	3.8	2	232	4.2	2
34	236	3.8	2	234	4.2	2
35	238	3.9	2	236	4.3	2
36	240	4.0	3	238	4.4	2
37	240	4.1	3	240	4.6	3
38	242	4.3	3	242	4.8	3
39	244	4.6	3	244	5.0	3
40	246	4.9	3	246	5.3	3
41	248	5.2	3	248	5.7	3
42	252	5.7	3	252	6.1	3
43	254	6.2	3	254	6.5	3

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
44	260	6.6	4	258	6.7	3
45	264	7.2	4	262	7.1	4
46	270	8.6	4	268	8.0	4
47	280	10.0	4	276	10.0	4
48	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-2. 2012 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 4**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	9.7	1	200	10.0	1
1	200	8.6	1	200	8.9	1
2	202	7.7	1	202	7.9	1
3	202	6.9	1	202	7.0	1
4	202	6.3	1	202	6.2	1
5	202	5.8	1	202	5.6	1
6	204	5.3	1	204	5.1	1
7	204	4.9	1	204	4.6	1
8	204	4.6	1	204	4.2	1
9	204	4.4	1	204	3.9	1
10	206	4.2	1	206	3.7	1
11	206	4.0	1	206	3.4	1
12	206	3.8	1	206	3.2	1
13	206	3.6	1	208	3.0	1
14	208	3.4	1	208	2.9	1
15	208	3.3	1	208	2.7	1
16	208	3.1	1	208	2.5	1
17	208	2.9	1	210	2.4	1
18	210	2.8	1	210	2.3	1
19	210	2.6	1	210	2.2	1
20	210	2.4	1	212	2.1	1
21	210	2.3	1	212	2.0	1
22	212	2.2	1	212	1.9	1
23	212	2.1	1	214	1.9	1
24	214	2.0	1	214	1.8	1
25	214	1.9	1	214	1.8	1
26	214	1.9	1	214	1.7	1
27	214	1.8	1	216	1.7	1
28	216	1.7	1	216	1.6	1
29	216	1.7	1	216	1.6	1
30	216	1.7	1	216	1.6	1
31	216	1.6	1	218	1.6	1
32	218	1.6	1	218	1.6	1
33	218	1.6	1	218	1.6	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
34	218	1.5	1	218	1.8	1
35	218	1.6	1	220	2.2	2
36	218	2.1	1	220	2.7	2
37	220	2.6	2	220	3.2	2
38	220	3.1	2	222	3.7	2
39	220	3.6	2	222	4.2	2
40	222	4.2	2	224	4.7	2
41	224	4.7	2	226	4.9	2
42	226	5.2	2	228	4.9	2
43	228	5.2	2	228	4.9	2
44	228	5.2	2	230	5.0	2
45	230	5.3	2	232	5.0	2
46	232	5.4	2	234	5.1	2
47	234	5.4	2	236	5.2	2
48	236	5.5	2	236	5.1	2
49	238	5.4	2	238	5.0	2
50	240	5.3	3	240	4.9	3
51	240	5.2	3	242	4.8	3
52	242	5.1	3	244	4.7	3
53	244	5.1	3	244	4.6	3
54	246	5.2	3	246	4.8	3
55	248	5.3	3	248	4.9	3
56	250	5.5	3	250	5.1	3
57	252	5.7	3	252	5.2	3
58	254	6.0	3	254	5.4	3
59	258	6.3	3	256	5.7	3
60	260	6.6	4	258	5.9	3
61	264	6.9	4	262	6.2	4
62	266	7.3	4	264	6.6	4
63	270	7.6	4	268	6.9	4
64	274	7.9	4	272	7.2	4
65	278	8.2	4	274	7.5	4
66	280	8.5	4	278	7.8	4
67	280	8.9	4	280	8.3	4
68	280	9.7	4	280	9.1	4
69	280	9.7	4	280	10.0	4
70	280	9.7	4	280	10.0	4
71	280	9.7	4	280	10.0	4
72	280	9.7	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-3. 2012 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 5**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	9.4	1	200	10.0	1
1	200	8.5	1	200	10.0	1
2	202	7.7	1	202	10.0	1
3	202	6.9	1	202	10.0	1
4	204	6.3	1	204	10.0	1
5	204	5.7	1	204	9.5	1
6	204	5.1	1	206	8.3	1
7	206	4.7	1	206	7.3	1
8	206	4.3	1	208	6.4	1
9	208	3.9	1	208	5.7	1
10	208	3.5	1	208	5.0	1
11	210	3.2	1	210	4.3	1
12	210	3.0	1	210	3.7	1
13	210	2.8	1	212	3.3	1
14	212	2.7	1	212	3.1	1
15	212	2.6	1	214	2.8	1
16	214	2.5	1	216	2.7	1
17	214	2.4	1	216	2.5	1
18	216	2.4	1	216	2.4	1
19	216	2.3	1	218	2.3	1
20	218	2.3	1	218	2.7	1
21	218	2.2	1	220	3.2	2
22	218	2.8	1	220	3.6	2
23	220	3.3	2	222	4.0	2
24	220	3.8	2	222	4.5	2
25	222	4.3	2	224	4.9	2
26	224	4.8	2	226	4.9	2
27	226	5.3	2	228	4.8	2
28	228	5.3	2	230	4.7	2
29	228	5.3	2	230	4.7	2
30	230	5.3	2	232	4.6	2
31	232	5.3	2	234	4.6	2
32	234	5.4	2	236	4.6	2
33	236	5.4	2	238	4.6	2
34	238	5.3	2	240	4.5	3
35	240	5.3	3	240	4.5	3
36	242	5.4	3	242	4.6	3
37	244	5.4	3	244	4.6	3
38	246	5.5	3	246	4.8	3
39	248	5.6	3	248	4.9	3
40	250	5.8	3	250	5.2	3
41	252	6.0	3	252	5.4	3
42	256	6.0	3	254	5.7	3
43	258	5.8	3	258	5.7	3
44	262	5.7	4	260	5.7	4

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
45	264	5.6	4	264	5.7	4
46	266	5.7	4	266	5.8	4
47	270	6.0	4	270	6.3	4
48	274	6.4	4	274	6.8	4
49	278	7.0	4	278	7.5	4
50	280	7.9	4	280	8.5	4
51	280	9.9	4	280	10.0	4
52	280	9.9	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-4. 2012 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 6**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	9.9	1	202	10.0	1
4	204	8.5	1	204	9.8	1
5	204	7.3	1	204	8.2	1
6	206	6.2	1	206	6.9	1
7	206	5.4	1	206	5.9	1
8	206	4.6	1	206	5.0	1
9	208	4.1	1	208	4.2	1
10	208	3.6	1	208	3.7	1
11	210	3.2	1	210	3.3	1
12	210	3.0	1	210	3.1	1
13	212	2.8	1	212	2.9	1
14	212	2.7	1	214	2.7	1
15	214	2.6	1	214	2.5	1
16	214	2.5	1	214	2.4	1
17	216	2.4	1	216	2.3	1
18	216	2.4	1	216	2.2	1
19	216	2.3	1	218	2.2	1
20	218	2.2	1	218	2.1	1
21	218	2.5	1	218	2.6	1
22	218	3.1	1	220	3.2	2
23	220	3.8	2	220	3.7	2
24	220	4.4	2	222	4.2	2
25	222	5.0	2	224	4.7	2
26	224	5.6	2	224	5.2	2
27	226	5.9	2	226	5.3	2
28	228	5.8	2	228	5.2	2
29	230	5.8	2	230	5.2	2
30	232	5.7	2	232	5.2	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
31	234	5.7	2	234	5.2	2
32	236	5.3	2	236	5.1	2
33	238	5.0	2	238	4.8	2
34	240	4.7	3	238	4.5	2
35	242	4.4	3	240	4.3	3
36	242	4.1	3	242	4.0	3
37	244	3.9	3	244	3.7	3
38	246	3.9	3	244	3.7	3
39	248	4.0	3	246	3.7	3
40	248	4.2	3	248	3.9	3
41	250	4.3	3	248	4.0	3
42	252	4.5	3	250	4.2	3
43	254	4.7	3	252	4.4	3
44	256	5.0	3	254	4.7	3
45	260	5.3	4	258	5.0	3
46	262	5.7	4	260	5.4	4
47	264	6.1	4	262	5.9	4
48	268	6.5	4	266	6.4	4
49	272	7.1	4	270	6.9	4
50	278	8.2	4	276	7.9	4
51	280	10.0	4	280	10.0	4
52	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-5. 2012 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 7**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	9.8	1	200	10.0	1
1	200	8.7	1	200	10.0	1
2	202	7.7	1	202	10.0	1
3	202	6.9	1	202	10.0	1
4	202	6.1	1	202	9.7	1
5	204	5.5	1	204	8.3	1
6	204	5.0	1	204	7.1	1
7	204	4.6	1	204	6.1	1
8	204	4.2	1	206	5.3	1
9	206	3.9	1	206	4.7	1
10	206	3.7	1	206	4.2	1
11	206	3.4	1	206	3.8	1
12	208	3.2	1	208	3.5	1
13	208	3.0	1	208	3.3	1
14	208	2.8	1	208	3.1	1
15	210	2.6	1	210	3.0	1
16	210	2.5	1	210	2.8	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
17	210	2.3	1	210	2.7	1
18	212	2.2	1	212	2.5	1
19	212	2.1	1	212	2.4	1
20	212	2.1	1	212	2.3	1
21	214	2.0	1	214	2.2	1
22	214	1.9	1	214	2.1	1
23	214	1.9	1	216	2.0	1
24	216	1.9	1	216	1.9	1
25	216	1.8	1	216	1.9	1
26	216	1.8	1	218	1.8	1
27	216	1.8	1	218	1.7	1
28	218	1.8	1	218	1.7	1
29	218	1.7	1	218	2.1	1
30	218	2.0	1	220	2.6	2
31	220	2.5	2	220	3.1	2
32	220	2.9	2	220	3.5	2
33	220	3.4	2	222	4.0	2
34	222	3.9	2	224	4.4	2
35	224	4.4	2	226	4.8	2
36	224	4.8	2	226	4.7	2
37	226	4.9	2	228	4.6	2
38	228	4.9	2	230	4.5	2
39	230	4.9	2	230	4.5	2
40	230	4.9	2	232	4.4	2
41	232	5.0	2	234	4.4	2
42	234	5.0	2	234	4.4	2
43	236	4.9	2	236	4.3	2
44	238	4.7	2	238	4.0	2
45	238	4.4	2	238	3.8	2
46	240	4.1	3	240	3.6	3
47	242	3.8	3	240	3.3	3
48	242	3.5	3	242	3.1	3
49	244	3.3	3	242	2.8	3
50	244	3.3	3	244	2.8	3
51	246	3.4	3	244	2.9	3
52	248	3.4	3	246	2.9	3
53	248	3.5	3	246	3.0	3
54	250	3.5	3	248	3.1	3
55	250	3.6	3	248	3.2	3
56	252	3.7	3	250	3.3	3
57	254	3.7	3	252	3.4	3
58	256	3.8	3	252	3.5	3
59	256	3.9	3	254	3.6	3
60	258	4.2	3	256	3.7	3
61	260	4.5	4	258	4.0	3
62	262	4.7	4	260	4.4	4
63	264	5.1	4	262	4.8	4

continued



Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
64	268	5.3	4	264	5.2	4
65	270	5.6	4	266	5.5	4
66	274	6.1	4	270	5.8	4
67	278	6.9	4	274	6.3	4
68	280	8.3	4	278	7.2	4
69	280	10.0	4	280	9.1	4
70	280	10.0	4	280	10.0	4
71	280	10.0	4	280	10.0	4
72	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-6. 2012 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 8**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	9.2	1
2	202	10.0	1	202	8.0	1
3	202	10.0	1	202	7.0	1
4	204	9.7	1	204	6.1	1
5	204	8.3	1	204	5.4	1
6	206	7.0	1	206	4.8	1
7	206	6.0	1	206	4.3	1
8	208	5.1	1	208	3.8	1
9	208	4.4	1	208	3.4	1
10	210	3.8	1	210	3.2	1
11	210	3.4	1	210	3.0	1
12	212	3.2	1	212	2.9	1
13	212	3.0	1	212	2.8	1
14	214	2.9	1	214	2.7	1
15	214	2.7	1	214	2.6	1
16	216	2.6	1	216	2.6	1
17	216	2.5	1	216	2.5	1
18	218	2.5	1	218	2.5	1
19	218	3.1	1	218	2.7	1
20	220	3.7	2	218	3.3	1
21	220	4.2	2	220	3.8	2
22	222	4.7	2	220	4.4	2
23	224	5.2	2	222	4.9	2
24	226	5.7	2	224	5.5	2
25	228	5.6	2	226	5.8	2
26	230	5.4	2	228	5.8	2
27	230	5.3	2	230	5.8	2
28	232	5.2	2	232	5.8	2
29	234	5.1	2	234	5.7	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
30	236	4.9	2	236	5.4	2
31	238	4.5	2	238	5.0	2
32	240	4.1	3	240	4.6	3
33	240	3.7	3	240	4.2	3
34	242	3.4	3	242	3.8	3
35	242	3.0	3	244	3.4	3
36	244	2.9	3	244	3.3	3
37	244	2.9	3	246	3.4	3
38	246	3.0	3	246	3.4	3
39	246	3.1	3	248	3.5	3
40	248	3.2	3	250	3.6	3
41	250	3.3	3	250	3.7	3
42	250	3.5	3	252	3.8	3
43	252	3.7	3	254	3.9	3
44	254	3.9	3	256	4.0	3
45	256	4.2	3	258	4.2	3
46	258	4.5	3	260	4.4	4
47	260	4.8	4	262	4.6	4
48	264	5.2	4	264	4.9	4
49	268	5.7	4	268	5.3	4
50	272	6.6	4	272	6.4	4
51	278	9.1	4	278	9.4	4
52	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-7. 2012 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 10**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	202	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1
7	206	10.0	1	204	10.0	1
8	206	10.0	1	206	10.0	1
9	206	10.0	1	206	10.0	1
10	208	10.0	1	206	6.6	1
11	208	10.0	1	208	4.4	1
12	210	4.9	1	208	3.2	1
13	214	2.0	1	208	2.7	1
14	214	1.6	1	208	2.7	1
15	216	1.5	1	210	2.8	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
16	216	1.4	1	210	2.7	1
17	216	1.3	1	212	2.4	1
18	216	1.2	1	214	2.1	1
19	218	1.2	1	214	1.9	1
20	218	1.1	1	216	1.6	1
21	218	1.0	1	216	1.5	1
22	218	1.0	1	216	1.3	1
23	220	0.9	2	218	1.2	1
24	220	1.6	2	218	1.1	1
25	220	2.2	2	218	1.1	1
26	220	2.8	2	218	1.0	1
27	222	3.4	2	218	1.0	1
28	222	3.9	2	220	1.1	2
29	224	4.4	2	220	1.7	2
30	226	4.5	2	220	2.4	2
31	226	4.5	2	220	3.0	2
32	228	4.4	2	222	3.6	2
33	230	4.3	2	222	4.1	2
34	230	4.2	2	224	4.7	2
35	232	4.2	2	226	4.7	2
36	234	4.1	2	228	4.6	2
37	234	4.1	2	228	4.5	2
38	236	4.1	2	230	4.4	2
39	236	3.9	2	232	4.4	2
40	238	3.8	2	232	4.3	2
41	240	3.6	3	234	4.3	2
42	240	3.5	3	236	4.2	2
43	242	3.3	3	236	4.1	2
44	242	3.2	3	238	4.0	2
45	244	3.1	3	240	3.8	3
46	244	3.1	3	240	3.7	3
47	246	3.1	3	242	3.6	3
48	246	3.2	3	242	3.4	3
49	248	3.2	3	244	3.4	3
50	248	3.2	3	244	3.4	3
51	250	3.3	3	246	3.5	3
52	250	3.3	3	248	3.5	3
53	252	3.3	3	248	3.6	3
54	254	3.4	3	250	3.7	3
55	254	3.5	3	252	3.8	3
56	256	3.5	3	252	3.9	3
57	258	3.5	3	254	4.1	3
58	258	3.4	3	256	4.2	3
59	260	3.2	4	258	4.0	3
60	262	3.1	4	260	3.9	4
61	262	2.9	4	262	3.7	4
62	264	2.9	4	262	3.5	4

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
63	266	3.0	4	264	3.5	4
64	268	3.1	4	266	3.6	4
65	268	3.2	4	268	3.8	4
66	270	3.3	4	270	4.1	4
67	272	3.6	4	274	4.4	4
68	276	4.1	4	276	5.1	4
69	280	5.1	4	280	6.5	4
70	280	6.5	4	280	9.6	4
71	280	7.0	4	280	10.0	4
72	280	7.2	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-8. 2012 MCAS: Raw to Scaled Score Lookup Table – Mathematics Grade 3**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	202	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	204	10.0	1
4	204	10.0	1	204	10.0	1
5	204	8.6	1	206	8.3	1
6	206	6.8	1	206	5.5	1
7	206	5.0	1	208	4.1	1
8	208	4.0	1	210	3.4	1
9	208	3.4	1	210	3.0	1
10	210	3.0	1	212	2.8	1
11	212	2.7	1	214	2.6	1
12	212	2.5	1	214	2.4	1
13	214	2.4	1	216	2.2	1
14	214	2.2	1	216	2.1	1
15	216	2.1	1	218	2.0	1
16	216	2.1	1	218	1.9	1
17	216	2.0	1	218	2.3	1
18	218	2.0	1	220	2.9	2
19	218	2.2	1	220	3.6	2
20	218	3.0	1	222	4.2	2
21	220	3.7	2	224	4.8	2
22	220	4.5	2	226	5.4	2
23	224	5.4	2	228	5.3	2
24	226	6.2	2	230	5.2	2
25	228	6.6	2	232	5.2	2
26	230	6.6	2	234	5.2	2
27	232	6.7	2	236	5.1	2
28	236	6.7	2	238	5.0	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
29	238	6.6	2	240	4.8	3
30	240	6.5	3	242	4.7	3
31	244	6.5	3	242	4.6	3
32	246	6.4	3	244	4.6	3
33	248	6.7	3	246	4.8	3
34	252	7.0	3	250	5.1	3
35	256	6.8	3	252	5.4	3
36	260	6.4	4	256	5.7	3
37	262	6.2	4	258	5.5	3
38	266	6.4	4	262	5.5	4
39	274	9.4	4	268	7.0	4
40	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-9. 2012 MCAS: Raw to Scaled Score Lookup Table – Mathematics Grade 4**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	206	10.0	1	206	7.2	1
7	206	7.5	1	206	4.2	1
8	206	4.7	1	208	3.2	1
9	208	3.5	1	208	2.8	1
10	210	3.0	1	210	2.5	1
11	210	2.7	1	212	2.3	1
12	212	2.5	1	212	2.1	1
13	212	2.3	1	214	2.0	1
14	214	2.2	1	214	2.0	1
15	214	2.1	1	214	1.9	1
16	216	2.1	1	216	1.9	1
17	216	2.0	1	216	1.8	1
18	216	1.9	1	216	1.8	1
19	218	1.9	1	218	1.7	1
20	218	1.9	1	218	1.7	1
21	218	2.0	1	218	1.8	1
22	218	2.4	1	220	2.2	2
23	220	2.8	2	220	2.5	2
24	220	3.2	2	220	2.8	2
25	222	3.6	2	222	3.2	2
26	222	4.0	2	222	3.5	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
27	224	4.3	2	224	3.8	2
28	226	4.4	2	224	3.8	2
29	226	4.3	2	226	3.8	2
30	228	4.3	2	228	3.7	2
31	230	4.2	2	228	3.7	2
32	230	4.2	2	230	3.7	2
33	232	4.1	2	230	3.7	2
34	232	4.1	2	232	3.7	2
35	234	4.1	2	232	3.7	2
36	236	4.1	2	234	3.7	2
37	236	4.2	2	236	3.7	2
38	238	4.5	2	236	3.7	2
39	240	4.9	3	238	4.0	2
40	240	5.2	3	238	4.3	2
41	242	5.6	3	240	4.7	3
42	244	6.1	3	242	5.1	3
43	248	6.4	3	244	5.5	3
44	250	6.6	3	246	5.8	3
45	252	6.8	3	248	6.0	3
46	254	6.6	3	252	6.2	3
47	258	6.2	3	254	6.3	3
48	260	5.7	4	256	5.9	3
49	262	5.3	4	260	5.4	4
50	266	5.0	4	262	5.0	4
51	268	5.7	4	264	4.7	4
52	272	7.1	4	268	5.9	4
53	280	10.0	4	274	8.5	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-10. 2012 MCAS: Raw to Scaled Score Lookup Table – Mathematics Grade 5**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	204	8.2	1	204	8.6	1
7	206	5.5	1	206	6.5	1
8	206	4.1	1	206	4.9	1
9	208	3.3	1	206	3.8	1
10	210	2.9	1	208	3.2	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
11	210	2.6	1	210	2.8	1
12	212	2.4	1	210	2.5	1
13	212	2.2	1	212	2.3	1
14	214	2.1	1	212	2.2	1
15	214	2.0	1	214	2.0	1
16	216	1.9	1	214	2.0	1
17	216	1.8	1	216	1.9	1
18	216	1.8	1	216	1.8	1
19	216	1.7	1	216	1.8	1
20	218	1.7	1	216	1.7	1
21	218	1.7	1	218	1.7	1
22	218	1.8	1	218	1.6	1
23	218	2.4	1	218	1.8	1
24	220	3.0	2	218	2.5	1
25	220	3.6	2	220	3.1	2
26	222	4.2	2	220	3.8	2
27	224	4.8	2	222	4.4	2
28	224	5.4	2	224	5.1	2
29	226	5.7	2	226	5.7	2
30	228	5.6	2	228	5.9	2
31	230	5.6	2	228	5.8	2
32	232	5.6	2	230	5.8	2
33	234	5.5	2	232	5.8	2
34	234	5.5	2	234	5.7	2
35	236	5.6	2	236	5.7	2
36	238	5.6	2	238	5.7	2
37	240	5.6	3	240	5.7	3
38	242	5.6	3	242	5.7	3
39	244	5.7	3	244	5.7	3
40	246	5.8	3	246	5.8	3
41	248	5.9	3	248	5.8	3
42	250	6.0	3	250	5.9	3
43	252	6.1	3	252	5.9	3
44	254	6.3	3	254	6.0	3
45	256	5.9	3	256	5.6	3
46	258	5.4	3	258	5.0	3
47	260	4.8	4	260	4.5	4
48	262	4.2	4	262	3.9	4
49	264	3.6	4	264	3.3	4
50	266	3.9	4	264	3.6	4
51	268	4.4	4	268	4.0	4
52	272	5.3	4	270	4.8	4
53	276	7.4	4	274	6.7	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-11. 2012 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 6**

<i>Raw Score</i>	<i>2012</i>			<i>2011</i>		
	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1
7	206	10.0	1	206	6.6	1
8	206	5.4	1	206	3.8	1
9	208	3.5	1	210	3.1	1
10	210	2.7	1	210	2.7	1
11	212	2.3	1	212	2.4	1
12	212	2.1	1	212	2.2	1
13	214	1.9	1	214	2.1	1
14	214	1.8	1	214	1.9	1
15	216	1.7	1	214	1.8	1
16	216	1.6	1	216	1.7	1
17	216	1.6	1	216	1.7	1
18	216	1.5	1	216	1.6	1
19	218	1.5	1	218	1.6	1
20	218	1.4	1	218	1.5	1
21	218	1.4	1	218	1.5	1
22	218	1.4	1	218	1.4	1
23	218	2.0	1	218	2.0	1
24	220	2.7	2	220	2.7	2
25	220	3.4	2	220	3.4	2
26	220	4.1	2	220	4.1	2
27	222	4.8	2	222	4.8	2
28	224	5.5	2	224	5.4	2
29	226	6.0	2	226	6.1	2
30	228	5.9	2	228	6.1	2
31	230	5.9	2	230	6.0	2
32	232	5.9	2	232	6.0	2
33	234	5.9	2	234	6.0	2
34	236	5.8	2	234	5.9	2
35	238	5.6	2	236	5.7	2
36	238	5.5	2	238	5.6	2
37	240	5.4	3	240	5.5	3
38	242	5.3	3	242	5.4	3
39	244	5.2	3	244	5.3	3
40	246	5.1	3	246	5.2	3
41	248	5.2	3	248	5.3	3
42	248	5.3	3	248	5.4	3
43	250	5.4	3	250	5.5	3
44	252	5.5	3	252	5.7	3

continued



Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
45	254	5.5	3	254	5.6	3
46	258	5.1	3	258	5.2	3
47	260	4.6	4	260	4.7	4
48	262	4.1	4	262	4.2	4
49	262	3.6	4	262	3.8	4
50	264	3.5	4	264	3.7	4
51	266	3.9	4	266	4.3	4
52	270	4.7	4	270	5.3	4
53	274	6.6	4	276	7.8	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-12. 2012 MCAS: Raw to Scaled Score Lookup Table – Mathematics Grade 7**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	202	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1
7	206	9.9	1	204	7.6	1
8	206	6.5	1	206	4.7	1
9	206	4.2	1	206	3.3	1
10	208	3.3	1	208	2.8	1
11	210	2.9	1	210	2.4	1
12	212	2.6	1	210	2.2	1
13	212	2.4	1	212	2.1	1
14	214	2.2	1	212	2.0	1
15	214	2.1	1	212	1.9	1
16	216	1.9	1	214	1.8	1
17	216	1.8	1	214	1.7	1
18	216	1.7	1	214	1.7	1
19	216	1.6	1	216	1.7	1
20	218	1.5	1	216	1.6	1
21	218	1.5	1	216	1.6	1
22	218	1.4	1	216	1.6	1
23	218	1.6	1	218	1.5	1
24	220	2.3	2	218	1.5	1
25	220	3.0	2	218	1.5	1
26	220	3.7	2	218	1.9	1
27	222	4.4	2	220	2.7	2
28	224	5.1	2	220	3.5	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
29	224	5.7	2	220	4.3	2
30	226	6.2	2	222	5.1	2
31	228	6.2	2	224	5.9	2
32	230	6.1	2	226	6.6	2
33	232	6.0	2	228	6.7	2
34	234	6.0	2	230	6.7	2
35	236	5.8	2	232	6.6	2
36	238	5.6	2	234	6.5	2
37	238	5.5	2	236	6.2	2
38	240	5.3	3	238	6.0	2
39	242	5.2	3	240	5.8	3
40	244	5.0	3	242	5.6	3
41	246	4.9	3	244	5.4	3
42	246	5.0	3	246	5.2	3
43	248	5.1	3	248	5.3	3
44	250	5.3	3	250	5.3	3
45	252	5.4	3	252	5.4	3
46	254	5.6	3	254	5.6	3
47	258	5.2	3	256	5.4	3
48	260	4.9	4	258	5.0	3
49	262	4.5	4	260	4.6	4
50	264	4.2	4	262	4.2	4
51	266	4.6	4	264	4.0	4
52	270	5.8	4	268	4.9	4
53	276	8.9	4	272	7.1	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-13. 2012 MCAS: Raw to Scaled Score Lookup Table – Mathematics Grade 8**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	202	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1
7	206	5.0	1	206	6.6	1
8	208	3.3	1	206	3.9	1
9	210	2.6	1	208	2.9	1
10	212	2.2	1	210	2.5	1
11	212	2.0	1	212	2.2	1
12	214	1.9	1	212	2.0	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
13	214	1.8	1	214	1.8	1
14	216	1.7	1	214	1.7	1
15	216	1.6	1	214	1.6	1
16	216	1.6	1	216	1.6	1
17	216	1.5	1	216	1.5	1
18	218	1.5	1	216	1.5	1
19	218	1.4	1	216	1.4	1
20	218	1.4	1	218	1.4	1
21	218	1.3	1	218	1.4	1
22	220	2.0	2	218	1.3	1
23	220	2.7	2	218	1.3	1
24	220	3.4	2	218	1.3	1
25	220	4.1	2	220	2.0	2
26	222	4.7	2	220	2.7	2
27	224	5.4	2	220	3.4	2
28	226	5.8	2	220	4.1	2
29	228	5.8	2	222	4.8	2
30	230	5.7	2	224	5.5	2
31	232	5.7	2	226	6.1	2
32	234	5.7	2	228	6.1	2
33	234	5.6	2	230	6.1	2
34	236	5.5	2	232	6.1	2
35	238	5.3	2	234	6.1	2
36	240	5.2	3	236	6.0	2
37	242	5.1	3	238	5.8	2
38	244	5.0	3	240	5.7	3
39	244	4.9	3	240	5.6	3
40	246	4.9	3	242	5.5	3
41	248	5.0	3	244	5.4	3
42	250	5.1	3	246	5.4	3
43	252	5.2	3	248	5.5	3
44	254	5.4	3	250	5.6	3
45	256	5.2	3	252	5.7	3
46	258	4.8	3	254	5.9	3
47	260	4.5	4	256	5.5	3
48	262	4.1	4	260	5.1	4
49	264	3.7	4	262	4.7	4
50	264	3.9	4	262	4.3	4
51	268	4.4	4	266	4.4	4
52	270	5.4	4	268	5.4	4
53	276	7.8	4	274	7.9	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-14. 2012 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 10**

<i>Raw Score</i>	<i>2012</i>			<i>2011</i>		
	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>	<i>Scaled Score</i>	<i>Standard Error</i>	<i>Performance Level</i>
0	200	10.0	1	200	10.0	1
1	202	10.0	1	202	10.0	1
2	202	10.0	1	202	10.0	1
3	204	10.0	1	204	10.0	1
4	204	10.0	1	204	10.0	1
5	206	10.0	1	206	10.0	1
6	206	10.0	1	206	10.0	1
7	208	10.0	1	208	10.0	1
8	210	5.3	1	208	9.9	1
9	214	2.3	1	214	2.7	1
10	216	1.7	1	216	1.9	1
11	216	1.4	1	216	1.5	1
12	216	1.3	1	216	1.3	1
13	218	1.2	1	218	1.2	1
14	218	1.1	1	218	1.1	1
15	218	1.1	1	218	1.1	1
16	218	1.0	1	218	1.0	1
17	220	1.9	2	220	1.7	2
18	220	2.9	2	220	2.6	2
19	220	3.8	2	220	3.6	2
20	222	4.7	2	222	4.5	2
21	224	5.5	2	224	5.4	2
22	226	6.3	2	226	6.3	2
23	228	6.4	2	228	6.4	2
24	230	6.2	2	230	6.3	2
25	232	6.1	2	232	6.2	2
26	234	5.9	2	234	6.2	2
27	236	5.8	2	236	6.1	2
28	238	5.7	2	238	6.1	2
29	240	5.7	3	240	6.0	3
30	240	5.6	3	242	6.0	3
31	242	5.6	3	244	5.9	3
32	244	5.5	3	244	5.9	3
33	246	5.5	3	246	5.9	3
34	248	5.5	3	248	5.8	3
35	248	5.5	3	250	5.8	3
36	250	5.5	3	252	5.8	3
37	252	5.5	3	254	5.8	3
38	254	5.5	3	256	5.4	3
39	256	5.2	3	258	4.8	3
40	258	4.6	3	258	4.2	3
41	258	4.0	3	260	3.6	4
42	260	3.4	4	260	3.1	4
43	260	2.8	4	262	2.5	4
44	262	2.2	4	262	1.9	4

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
45	262	1.7	4	262	1.9	4
46	262	1.7	4	264	1.9	4
47	264	1.7	4	264	1.9	4
48	264	1.7	4	264	2.0	4
49	264	1.8	4	266	2.0	4
50	266	1.8	4	266	2.1	4
51	266	1.9	4	266	2.2	4
52	266	1.9	4	268	2.3	4
53	268	2.0	4	268	2.4	4
54	268	2.2	4	270	2.6	4
55	270	2.3	4	270	2.8	4
56	270	2.6	4	272	3.1	4
57	272	2.9	4	274	3.5	4
58	274	3.5	4	276	4.3	4
59	278	4.9	4	280	6.3	4
60	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-15. 2012 MCAS: Raw to Scaled Score Lookup Table – STE Grade 5**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	9.6	1	204	10.0	1
6	204	8.1	1	204	9.9	1
7	206	6.9	1	206	8.1	1
8	206	5.9	1	206	6.7	1
9	208	5.1	1	206	5.5	1
10	208	4.3	1	208	4.3	1
11	210	3.7	1	208	3.6	1
12	210	3.3	1	210	3.2	1
13	212	3.0	1	210	2.9	1
14	212	2.8	1	212	2.7	1
15	214	2.6	1	212	2.5	1
16	214	2.4	1	214	2.4	1
17	216	2.3	1	214	2.3	1
18	216	2.2	1	216	2.2	1
19	216	2.1	1	216	2.1	1
20	218	2.1	1	216	2.1	1
21	218	2.1	1	218	2.0	1
22	218	2.7	1	218	2.0	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
23	220	3.3	2	218	2.2	1
24	220	3.8	2	218	2.7	1
25	222	4.4	2	220	3.2	2
26	224	5.0	2	220	3.6	2
27	226	5.5	2	222	4.1	2
28	226	5.6	2	224	4.6	2
29	228	5.6	2	226	5.1	2
30	230	5.6	2	226	5.0	2
31	232	5.5	2	228	5.0	2
32	234	5.5	2	230	5.0	2
33	236	5.6	2	232	5.0	2
34	238	5.8	2	234	5.0	2
35	238	6.0	2	234	5.0	2
36	240	6.2	3	236	5.2	2
37	242	6.4	3	238	5.4	2
38	246	6.6	3	240	5.6	3
39	248	6.9	3	242	5.8	3
40	250	6.9	3	244	6.1	3
41	252	7.0	3	246	6.3	3
42	254	6.8	3	248	6.4	3
43	256	6.3	3	250	6.5	3
44	260	5.8	4	254	6.7	3
45	262	5.4	4	256	6.3	3
46	262	4.9	4	258	5.8	3
47	264	4.5	4	260	5.3	4
48	266	4.7	4	262	4.8	4
49	268	5.0	4	264	4.5	4
50	272	5.5	4	268	4.9	4
51	274	6.2	4	270	5.7	4
52	278	7.3	4	274	6.9	4
53	280	10.0	4	280	9.6	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-16. 2012 MCAS: Raw to Scaled Score Lookup Table – STE Grade 8**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	202	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
7	206	10.0	1	206	9.2	1
8	206	8.6	1	206	7.2	1
9	208	5.6	1	206	5.6	1
10	208	4.0	1	208	4.2	1
11	210	3.3	1	208	3.3	1
12	212	2.8	1	210	2.8	1
13	212	2.5	1	212	2.4	1
14	214	2.3	1	212	2.2	1
15	214	2.1	1	214	2.0	1
16	214	2.0	1	214	1.9	1
17	216	1.9	1	214	1.8	1
18	216	1.8	1	216	1.7	1
19	216	1.7	1	216	1.6	1
20	218	1.6	1	216	1.6	1
21	218	1.6	1	218	1.5	1
22	218	1.6	1	218	1.5	1
23	218	2.0	1	218	1.5	1
24	220	2.6	2	218	1.6	1
25	220	3.2	2	220	2.2	2
26	220	3.8	2	220	2.9	2
27	222	4.4	2	220	3.5	2
28	224	5.0	2	222	4.1	2
29	226	5.5	2	224	4.8	2
30	228	5.4	2	226	5.3	2
31	230	5.4	2	228	5.3	2
32	230	5.3	2	228	5.3	2
33	232	5.3	2	230	5.3	2
34	234	5.3	2	232	5.3	2
35	236	5.2	2	234	5.3	2
36	238	5.0	2	236	5.1	2
37	240	4.8	3	238	5.0	2
38	240	4.7	3	240	4.8	3
39	242	4.5	3	242	4.6	3
40	244	4.3	3	242	4.4	3
41	244	4.3	3	244	4.2	3
42	246	4.4	3	246	4.3	3
43	248	4.5	3	248	4.2	3
44	250	4.6	3	250	4.3	3
45	252	4.8	3	252	4.3	3
46	254	5.0	3	252	4.5	3
47	256	5.4	3	256	4.7	3
48	258	6.0	3	258	5.3	3
49	262	6.8	4	260	6.1	4
50	266	7.9	4	264	7.1	4
51	270	9.4	4	268	8.4	4
52	278	10.0	4	276	10.0	4

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
53	280	10.0	4	280	10.0	4
54	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-17. 2012 MCAS: Raw to Scaled Score Lookup Table – High School Biology**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	206	10.0	1	206	10.0	1
7	206	10.0	1	206	10.0	1
8	208	10.0	1	208	10.0	1
9	208	10.0	1	208	10.0	1
10	210	10.0	1	210	10.0	1
11	210	4.5	1	210	4.7	1
12	212	3.2	1	212	3.3	1
13	214	2.6	1	214	2.7	1
14	214	2.3	1	216	2.4	1
15	216	2.1	1	216	2.1	1
16	216	1.9	1	218	1.9	1
17	218	1.8	1	218	1.8	1
18	218	1.7	1	218	1.7	1
19	218	1.8	1	218	2.4	1
20	220	2.5	2	220	3.1	2
21	220	3.3	2	220	3.8	2
22	220	4.0	2	222	4.4	2
23	222	4.7	2	224	5.0	2
24	224	5.4	2	224	5.6	2
25	226	6.1	2	226	5.9	2
26	228	5.9	2	228	5.8	2
27	230	5.8	2	230	5.6	2
28	232	5.6	2	232	5.5	2
29	234	5.5	2	234	5.4	2
30	234	5.4	2	234	5.3	2
31	236	5.1	2	236	5.0	2
32	238	4.8	2	238	4.7	2
33	240	4.5	3	240	4.5	3
34	242	4.2	3	240	4.3	3
35	242	4.0	3	242	4.0	3
36	244	3.7	3	242	3.8	3

continued



Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
37	244	3.7	3	244	3.7	3
38	246	3.7	3	246	3.7	3
39	248	3.8	3	246	3.7	3
40	248	3.8	3	248	3.8	3
41	250	3.9	3	248	3.8	3
42	252	3.9	3	250	3.9	3
43	252	4.0	3	252	4.0	3
44	254	4.1	3	252	4.0	3
45	256	4.2	3	254	4.1	3
46	258	4.1	3	256	4.2	3
47	258	3.8	3	256	4.1	3
48	260	3.6	4	258	3.9	3
49	262	3.3	4	260	3.7	4
50	262	3.0	4	262	3.5	4
51	264	3.0	4	262	3.2	4
52	266	3.2	4	264	3.2	4
53	268	3.4	4	266	3.3	4
54	268	3.6	4	266	3.5	4
55	270	3.8	4	268	3.8	4
56	272	4.1	4	270	4.2	4
57	276	4.4	4	274	4.7	4
58	278	5.0	4	276	5.5	4
59	280	6.7	4	280	7.3	4
60	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-18. 2012 MCAS: Raw to Scaled Score Lookup Table – High School Chemistry**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	204	10.0	1	204	10.0	1
7	206	10.0	1	206	10.0	1
8	206	10.0	1	206	10.0	1
9	206	10.0	1	208	10.0	1
10	208	6.0	1	208	8.2	1
11	212	3.6	1	212	3.3	1
12	214	2.7	1	214	2.3	1
13	214	2.2	1	214	1.9	1
14	214	1.9	1	216	1.7	1

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
15	216	1.7	1	216	1.5	1
16	216	1.5	1	216	1.4	1
17	216	1.4	1	218	1.3	1
18	218	1.3	1	218	1.2	1
19	218	1.2	1	218	1.2	1
20	218	1.1	1	218	1.1	1
21	218	1.1	1	218	1.1	1
22	218	1.0	1	220	1.6	2
23	220	1.4	2	220	2.6	2
24	220	2.4	2	220	3.6	2
25	220	3.3	2	220	4.5	2
26	220	4.2	2	222	5.4	2
27	222	5.2	2	224	6.3	2
28	224	6.1	2	226	7.1	2
29	226	7.0	2	228	7.4	2
30	228	7.2	2	230	7.3	2
31	230	7.1	2	232	7.2	2
32	232	7.1	2	234	6.9	2
33	234	6.8	2	236	6.6	2
34	236	6.6	2	238	6.3	2
35	238	6.3	2	240	6.1	3
36	240	6.0	3	242	5.8	3
37	242	5.8	3	244	5.6	3
38	244	5.6	3	246	5.4	3
39	246	5.3	3	246	5.4	3
40	246	5.3	3	248	5.4	3
41	248	5.3	3	250	5.4	3
42	250	5.3	3	252	5.5	3
43	252	5.3	3	254	5.5	3
44	254	5.3	3	256	5.4	3
45	256	5.2	3	256	4.9	3
46	256	4.7	3	258	4.4	3
47	258	4.2	3	260	3.8	4
48	260	3.7	4	262	3.3	4
49	260	3.2	4	262	2.8	4
50	262	2.7	4	262	2.5	4
51	262	2.3	4	264	2.6	4
52	264	2.4	4	264	2.7	4
53	264	2.5	4	266	2.8	4
54	266	2.7	4	268	3.0	4
55	266	2.8	4	268	3.2	4
56	268	3.1	4	270	3.5	4
57	270	3.5	4	272	4.0	4
58	272	4.3	4	276	4.8	4
59	278	6.3	4	280	6.7	4
60	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-19. 2012 MCAS: Raw to Scaled Score Lookup Table –  
High School Introductory Physics**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	10.0	1	200	10.0	1
2	202	10.0	1	202	10.0	1
3	202	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	204	10.0	1	204	10.0	1
6	206	10.0	1	206	10.0	1
7	206	10.0	1	206	10.0	1
8	208	10.0	1	208	10.0	1
9	208	10.0	1	208	10.0	1
10	210	10.0	1	210	10.0	1
11	212	5.6	1	210	10.0	1
12	214	3.1	1	212	4.4	1
13	216	2.3	1	214	2.9	1
14	216	1.9	1	216	2.2	1
15	216	1.6	1	216	1.9	1
16	218	1.5	1	218	1.6	1
17	218	1.4	1	218	1.5	1
18	218	1.3	1	218	1.4	1
19	218	1.6	1	218	1.5	1
20	220	2.4	2	220	2.4	2
21	220	3.2	2	220	3.2	2
22	220	3.9	2	220	4.0	2
23	222	4.6	2	222	4.7	2
24	224	5.4	2	224	5.4	2
25	226	5.8	2	226	6.1	2
26	228	5.8	2	228	5.9	2
27	230	5.7	2	230	5.8	2
28	232	5.6	2	232	5.7	2
29	234	5.6	2	234	5.6	2
30	234	5.5	2	234	5.5	2
31	236	5.3	2	236	5.3	2
32	238	5.1	2	238	5.0	2
33	240	4.9	3	240	4.8	3
34	242	4.7	3	240	4.6	3
35	242	4.5	3	242	4.5	3
36	244	4.4	3	244	4.3	3
37	246	4.3	3	244	4.2	3
38	246	4.3	3	246	4.2	3
39	248	4.4	3	248	4.2	3
40	250	4.4	3	248	4.3	3
41	250	4.4	3	250	4.3	3
42	252	4.5	3	252	4.4	3
43	254	4.5	3	252	4.4	3
44	256	4.6	3	254	4.5	3

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
45	258	4.3	3	256	4.5	3
46	258	3.9	3	258	4.2	3
47	260	3.6	4	260	3.9	4
48	262	3.3	4	260	3.6	4
49	262	2.9	4	262	3.2	4
50	264	2.8	4	262	2.9	4
51	264	2.9	4	264	3.0	4
52	266	3.1	4	266	3.1	4
53	268	3.2	4	266	3.2	4
54	270	3.4	4	268	3.3	4
55	270	3.7	4	270	3.5	4
56	274	4.0	4	272	3.7	4
57	276	4.5	4	274	4.2	4
58	280	5.3	4	278	5.1	4
59	280	7.2	4	280	7.6	4
60	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced

**Table M-20. 2012 MCAS: Raw to Scaled Score Lookup Table – High School Technology/Engineering**

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	9.4	1	200	10.0	1
1	200	5.3	1	202	4.6	1
2	202	3.8	1	206	3.3	1
3	206	3.1	1	208	2.8	1
4	208	2.6	1	210	2.4	1
5	208	2.3	1	210	2.2	1
6	210	2.1	1	212	2.1	1
7	210	2.0	1	212	1.9	1
8	212	1.9	1	212	1.8	1
9	212	1.8	1	214	1.8	1
10	212	1.7	1	214	1.7	1
11	214	1.7	1	214	1.6	1
12	214	1.6	1	216	1.6	1
13	214	1.6	1	216	1.5	1
14	214	1.5	1	216	1.5	1
15	216	1.5	1	216	1.5	1
16	216	1.5	1	216	1.5	1
17	216	1.4	1	218	1.4	1
18	216	1.4	1	218	1.4	1
19	218	1.4	1	218	1.4	1
20	218	1.4	1	218	1.4	1
21	218	1.4	1	218	2.0	1
22	218	1.4	1	220	2.7	2

continued

Raw Score	2012			2011		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
23	218	1.8	1	220	3.4	2
24	220	2.5	2	220	4.1	2
25	220	3.2	2	222	4.7	2
26	220	4.0	2	224	5.4	2
27	222	4.7	2	226	6.1	2
28	224	5.5	2	228	6.4	2
29	226	6.2	2	230	6.4	2
30	228	6.6	2	230	6.4	2
31	230	6.6	2	232	6.4	2
32	232	6.6	2	234	6.3	2
33	234	6.7	2	236	5.9	2
34	236	6.2	2	238	5.5	2
35	238	5.8	2	240	5.1	3
36	240	5.4	3	240	4.7	3
37	240	4.9	3	242	4.3	3
38	242	4.5	3	242	3.9	3
39	242	4.1	3	244	3.5	3
40	244	3.7	3	244	3.6	3
41	244	3.8	3	246	3.7	3
42	246	3.8	3	246	3.7	3
43	248	3.9	3	248	3.8	3
44	248	4.0	3	250	3.9	3
45	250	4.1	3	250	4.0	3
46	252	4.2	3	252	4.1	3
47	252	4.4	3	254	4.3	3
48	254	4.5	3	254	4.4	3
49	256	4.6	3	256	4.5	3
50	258	4.4	3	258	4.3	3
51	260	4.3	4	260	4.2	4
52	262	4.1	4	262	4.1	4
53	262	4.0	4	262	4.0	4
54	264	4.0	4	264	3.9	4
55	266	4.3	4	266	4.3	4
56	268	4.8	4	268	4.7	4
57	272	5.4	4	272	5.3	4
58	274	6.4	4	274	6.2	4
59	280	8.7	4	280	8.2	4
60	280	10.0	4	280	10.0	4

Performance Levels: 1 = Warning; 2 = Needs Improvement; 3 = Proficient; 4 = Advanced