

# **APPENDIX M**

## **RAW TO SCALED SCORE LOOKUP TABLES**



**Table M-1. 2013 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 3**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	10.0	1	206	9.4	1
7	206	9.2	1	206	8.1	1
8	208	8.2	1	208	7.0	1
9	208	7.3	1	208	6.1	1
10	208	6.6	1	208	5.4	1
11	210	6.0	1	210	4.8	1
12	210	5.5	1	210	4.4	1
13	212	5.0	1	212	4.0	1
14	212	4.4	1	212	3.7	1
15	214	3.8	1	214	3.4	1
16	214	3.2	1	214	3.1	1
17	216	2.8	1	216	2.8	1
18	216	2.4	1	216	2.6	1
19	218	2.1	1	218	2.4	1
20	218	2.3	1	218	2.7	1
21	220	2.6	2	220	3.0	2
22	220	2.9	2	220	3.3	2
23	220	3.2	2	222	3.6	2
24	222	3.6	2	222	4.0	2
25	224	3.9	2	224	4.3	2
26	226	3.8	2	226	4.2	2
27	226	3.7	2	226	4.1	2
28	228	3.7	2	228	3.9	2
29	230	3.6	2	230	3.9	2
30	230	3.6	2	230	3.8	2
31	232	3.6	2	232	3.8	2
32	234	3.6	2	234	3.8	2
33	234	3.6	2	234	3.8	2
34	236	3.7	2	236	3.8	2
35	238	3.8	2	238	3.9	2
36	238	4.0	2	240	4.0	3
37	240	4.1	3	240	4.1	3
38	242	4.4	3	242	4.3	3
39	244	4.7	3	244	4.6	3
40	246	5.0	3	246	4.9	3
41	250	5.5	3	248	5.2	3
42	252	6.3	3	252	5.7	3
43	258	6.8	3	254	6.2	3
44	262	7.6	4	260	6.6	4

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
45	268	8.8	4	264	7.2	4
46	276	10.0	4	270	8.6	4
47	280	10.0	4	280	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. 2013 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 4**

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	7.8	1	200	9.7	1
1	200	7.0	1	200	8.6	1
2	202	6.3	1	202	7.7	1
3	202	5.7	1	202	6.9	1
4	202	5.2	1	202	6.3	1
5	202	4.8	1	202	5.8	1
6	204	4.4	1	204	5.3	1
7	204	4.1	1	204	4.9	1
8	204	3.9	1	204	4.6	1
9	204	3.7	1	204	4.4	1
10	206	3.4	1	206	4.2	1
11	206	3.3	1	206	4.0	1
12	206	3.1	1	206	3.8	1
13	206	2.9	1	206	3.6	1
14	208	2.8	1	208	3.4	1
15	208	2.7	1	208	3.3	1
16	208	2.6	1	208	3.1	1
17	210	2.5	1	208	2.9	1
18	210	2.4	1	210	2.8	1
19	210	2.3	1	210	2.6	1
20	210	2.2	1	210	2.4	1
21	212	2.1	1	210	2.3	1
22	212	2.0	1	212	2.2	1
23	214	2.0	1	212	2.1	1
24	214	1.9	1	214	2.0	1
25	214	1.8	1	214	1.9	1
26	214	1.8	1	214	1.9	1
27	216	1.7	1	214	1.8	1
28	216	1.7	1	216	1.7	1
29	216	1.6	1	216	1.7	1
30	216	1.6	1	216	1.7	1
31	218	1.6	1	216	1.6	1
32	218	1.5	1	218	1.6	1
33	218	1.5	1	218	1.6	1
34	218	1.6	1	218	1.5	1
35	220	2.1	2	218	1.6	1

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
36	220	2.5	2	218	2.1	1
37	220	3.0	2	220	2.6	2
38	220	3.5	2	220	3.1	2
39	222	3.9	2	220	3.6	2
40	224	4.4	2	222	4.2	2
41	226	4.8	2	224	4.7	2
42	226	4.8	2	226	5.2	2
43	228	4.9	2	228	5.2	2
44	230	4.9	2	228	5.2	2
45	232	5.0	2	230	5.3	2
46	232	5.1	2	232	5.4	2
47	234	5.2	2	234	5.4	2
48	236	5.1	2	236	5.5	2
49	238	5.1	2	238	5.4	2
50	240	5.0	3	240	5.3	3
51	242	4.9	3	240	5.2	3
52	242	4.9	3	242	5.1	3
53	244	4.8	3	244	5.1	3
54	246	4.9	3	246	5.2	3
55	248	5.1	3	248	5.3	3
56	250	5.2	3	250	5.5	3
57	252	5.4	3	252	5.7	3
58	254	5.6	3	254	6.0	3
59	256	5.9	3	258	6.3	3
60	258	6.2	3	260	6.6	4
61	262	6.5	4	264	6.9	4
62	264	6.8	4	266	7.3	4
63	268	7.2	4	270	7.6	4
64	270	7.5	4	274	7.9	4
65	274	7.7	4	278	8.2	4
66	278	8.0	4	280	8.5	4
67	280	8.4	4	280	8.9	4
68	280	8.9	4	280	9.7	4
69	280	9.7	4	280	9.7	4
70	280	9.7	4	280	9.7	4
71	280	9.7	4	280	9.7	4
72	280	9.7	4	280	9.7	4

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

**Table M-3. 2013 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 5**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	9.4	1
1	200	10.0	1	200	8.5	1
2	202	10.0	1	202	7.7	1

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
3	202	10.0	1	202	6.9	1
4	204	10.0	1	204	6.3	1
5	204	9.7	1	204	5.7	1
6	206	8.1	1	204	5.1	1
7	206	6.8	1	206	4.7	1
8	208	5.7	1	206	4.3	1
9	208	4.9	1	208	3.9	1
10	208	4.0	1	208	3.5	1
11	210	3.5	1	210	3.2	1
12	210	3.2	1	210	3.0	1
13	212	3.0	1	210	2.8	1
14	212	2.8	1	212	2.7	1
15	214	2.7	1	212	2.6	1
16	214	2.6	1	214	2.5	1
17	216	2.4	1	214	2.4	1
18	216	2.4	1	216	2.4	1
19	218	2.3	1	216	2.3	1
20	218	2.4	1	218	2.3	1
21	218	2.8	1	218	2.2	1
22	220	3.3	2	218	2.8	1
23	220	3.7	2	220	3.3	2
24	222	4.2	2	220	3.8	2
25	224	4.7	2	222	4.3	2
26	226	5.0	2	224	4.8	2
27	228	5.0	2	226	5.3	2
28	228	5.0	2	228	5.3	2
29	230	5.0	2	228	5.3	2
30	232	5.0	2	230	5.3	2
31	234	5.0	2	232	5.3	2
32	236	5.0	2	234	5.4	2
33	238	4.9	2	236	5.4	2
34	240	4.9	3	238	5.3	2
35	240	4.9	3	240	5.3	3
36	242	4.9	3	242	5.4	3
37	244	4.9	3	244	5.4	3
38	246	5.0	3	246	5.5	3
39	248	5.1	3	248	5.6	3
40	250	5.2	3	250	5.8	3
41	252	5.4	3	252	6.0	3
42	256	5.5	3	256	6.0	3
43	258	5.4	3	258	5.8	3
44	260	5.3	4	262	5.7	4
45	262	5.2	4	264	5.6	4
46	266	5.1	4	266	5.7	4
47	268	5.4	4	270	6.0	4
48	272	5.7	4	274	6.4	4
49	276	6.1	4	278	7.0	4
50	280	7.0	4	280	7.9	4

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
51	280	9.3	4	280	9.9	4
52	280	10.0	4	280	9.9	4

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

**Table M-4. 2013 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 6**

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	10.0	1
1	200	9.4	1	200	10.0	1
2	202	8.2	1	202	10.0	1
3	202	7.2	1	202	9.9	1
4	204	6.4	1	204	8.5	1
5	204	5.7	1	204	7.3	1
6	204	5.0	1	206	6.2	1
7	206	4.5	1	206	5.4	1
8	206	4.1	1	206	4.6	1
9	208	3.8	1	208	4.1	1
10	208	3.5	1	208	3.6	1
11	210	3.2	1	210	3.2	1
12	210	3.0	1	210	3.0	1
13	210	2.8	1	212	2.8	1
14	212	2.7	1	212	2.7	1
15	212	2.5	1	214	2.6	1
16	214	2.5	1	214	2.5	1
17	214	2.4	1	216	2.4	1
18	216	2.3	1	216	2.4	1
19	216	2.2	1	216	2.3	1
20	218	2.2	1	218	2.2	1
21	218	2.1	1	218	2.5	1
22	218	2.8	1	218	3.1	1
23	220	3.6	2	220	3.8	2
24	220	4.3	2	220	4.4	2
25	222	5.0	2	222	5.0	2
26	224	5.7	2	224	5.6	2
27	226	6.4	2	226	5.9	2
28	228	6.4	2	228	5.8	2
29	230	6.3	2	230	5.8	2
30	232	6.2	2	232	5.7	2
31	234	6.0	2	234	5.7	2
32	236	5.6	2	236	5.3	2
33	238	5.3	2	238	5.0	2
34	240	4.9	3	240	4.7	3
35	242	4.5	3	242	4.4	3
36	244	4.2	3	242	4.1	3
37	246	4.1	3	244	3.9	3

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
38	246	4.2	3	246	3.9	3
39	248	4.3	3	248	4.0	3
40	250	4.4	3	248	4.2	3
41	252	4.6	3	250	4.3	3
42	254	4.7	3	252	4.5	3
43	256	5.0	3	254	4.7	3
44	258	5.3	3	256	5.0	3
45	262	5.7	4	260	5.3	4
46	264	6.1	4	262	5.7	4
47	268	6.5	4	264	6.1	4
48	272	6.9	4	268	6.5	4
49	276	7.5	4	272	7.1	4
50	280	8.5	4	278	8.2	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. 2013 MCAS: Raw to Scaled Score Lookup Table – ELA Grade 7**

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	9.8	1
1	200	10.0	1	200	8.7	1
2	202	10.0	1	202	7.7	1
3	202	9.4	1	202	6.9	1
4	202	8.2	1	202	6.1	1
5	204	7.1	1	204	5.5	1
6	204	6.2	1	204	5.0	1
7	204	5.4	1	204	4.6	1
8	206	4.8	1	204	4.2	1
9	206	4.3	1	206	3.9	1
10	206	3.9	1	206	3.7	1
11	206	3.5	1	206	3.4	1
12	208	3.3	1	208	3.2	1
13	208	3.0	1	208	3.0	1
14	208	2.8	1	208	2.8	1
15	210	2.6	1	210	2.6	1
16	210	2.5	1	210	2.5	1
17	210	2.4	1	210	2.3	1
18	212	2.3	1	212	2.2	1
19	212	2.2	1	212	2.1	1
20	212	2.1	1	212	2.1	1
21	214	2.1	1	214	2.0	1
22	214	2.0	1	214	1.9	1
23	216	2.0	1	214	1.9	1
24	216	1.9	1	216	1.9	1

continued



Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
25	216	1.9	1	216	1.8	1
26	216	1.8	1	216	1.8	1
27	218	1.8	1	216	1.8	1
28	218	1.7	1	218	1.8	1
29	218	2.0	1	218	1.7	1
30	220	2.5	2	218	2.0	1
31	220	2.9	2	220	2.5	2
32	220	3.4	2	220	2.9	2
33	222	3.8	2	220	3.4	2
34	224	4.3	2	222	3.9	2
35	224	4.7	2	224	4.4	2
36	226	4.8	2	224	4.8	2
37	228	4.7	2	226	4.9	2
38	228	4.7	2	228	4.9	2
39	230	4.6	2	230	4.9	2
40	232	4.6	2	230	4.9	2
41	232	4.6	2	232	5.0	2
42	234	4.6	2	234	5.0	2
43	236	4.5	2	236	4.9	2
44	238	4.3	2	238	4.7	2
45	238	4.0	2	238	4.4	2
46	240	3.7	3	240	4.1	3
47	240	3.5	3	242	3.8	3
48	242	3.2	3	242	3.5	3
49	242	3.0	3	244	3.3	3
50	244	2.9	3	244	3.3	3
51	244	3.0	3	246	3.4	3
52	246	3.0	3	248	3.4	3
53	246	3.1	3	248	3.5	3
54	248	3.2	3	250	3.5	3
55	250	3.2	3	250	3.6	3
56	250	3.3	3	252	3.7	3
57	252	3.4	3	254	3.7	3
58	252	3.5	3	256	3.8	3
59	254	3.6	3	256	3.9	3
60	256	3.8	3	258	4.2	3
61	258	4.1	3	260	4.5	4
62	260	4.4	4	262	4.7	4
63	262	4.8	4	264	5.1	4
64	264	5.2	4	268	5.3	4
65	268	5.4	4	270	5.6	4
66	270	5.6	4	274	6.1	4
67	274	6.0	4	278	6.9	4
68	278	6.7	4	280	8.3	4
69	280	8.0	4	280	10.0	4
70	280	9.9	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. 2013 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 8**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	8.8	1	202	10.0	1
4	204	7.6	1	204	9.7	1
5	204	6.6	1	204	8.3	1
6	206	5.7	1	206	7.0	1
7	206	5.0	1	206	6.0	1
8	208	4.4	1	208	5.1	1
9	208	3.8	1	208	4.4	1
10	208	3.3	1	210	3.8	1
11	210	3.0	1	210	3.4	1
12	210	2.9	1	212	3.2	1
13	212	2.7	1	212	3.0	1
14	212	2.6	1	214	2.9	1
15	214	2.6	1	214	2.7	1
16	214	2.5	1	216	2.6	1
17	216	2.5	1	216	2.5	1
18	216	2.4	1	218	2.5	1
19	218	2.4	1	218	3.1	1
20	218	2.7	1	220	3.7	2
21	218	3.4	1	220	4.2	2
22	220	4.1	2	222	4.7	2
23	220	4.8	2	224	5.2	2
24	224	5.4	2	226	5.7	2
25	226	6.1	2	228	5.6	2
26	228	6.5	2	230	5.4	2
27	230	6.4	2	230	5.3	2
28	232	6.4	2	232	5.2	2
29	234	6.3	2	234	5.1	2
30	236	5.8	2	236	4.9	2
31	238	5.4	2	238	4.5	2
32	240	4.9	3	240	4.1	3
33	242	4.4	3	240	3.7	3
34	242	3.9	3	242	3.4	3
35	244	3.5	3	242	3.0	3
36	244	3.5	3	244	2.9	3
37	246	3.5	3	244	2.9	3
38	248	3.5	3	246	3.0	3
39	248	3.6	3	246	3.1	3
40	250	3.6	3	248	3.2	3
41	252	3.7	3	250	3.3	3
42	252	3.8	3	250	3.5	3
43	254	4.0	3	252	3.7	3

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
44	256	4.1	3	254	3.9	3
45	258	4.3	3	256	4.2	3
46	260	4.5	4	258	4.5	3
47	262	4.7	4	260	4.8	4
48	266	5.0	4	264	5.2	4
49	268	5.5	4	268	5.7	4
50	272	6.4	4	272	6.6	4
51	280	8.8	4	278	9.1	4
52	280	10.0	4	280	10.0	4

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

**Table M-7. 2013 MCAS: Raw to Scaled Score Lookup Table –  
ELA Grade 10**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	10.0	1
8	206	10.0	1	206	10.0	1
9	208	10.0	1	206	10.0	1
10	208	10.0	1	208	10.0	1
11	208	10.0	1	208	10.0	1
12	210	9.5	1	210	4.9	1
13	214	2.1	1	214	2.0	1
14	214	1.6	1	214	1.6	1
15	216	1.5	1	216	1.5	1
16	216	1.4	1	216	1.4	1
17	216	1.3	1	216	1.3	1
18	218	1.2	1	216	1.2	1
19	218	1.2	1	218	1.2	1
20	218	1.1	1	218	1.1	1
21	218	1.0	1	218	1.0	1
22	218	1.0	1	218	1.0	1
23	220	1.5	2	220	0.9	2
24	220	2.2	2	220	1.6	2
25	220	2.9	2	220	2.2	2
26	222	3.5	2	220	2.8	2
27	222	4.1	2	222	3.4	2
28	224	4.7	2	222	3.9	2
29	226	4.9	2	224	4.4	2
30	228	4.8	2	226	4.5	2

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
31	228	4.7	2	226	4.5	2
32	230	4.6	2	228	4.4	2
33	232	4.6	2	230	4.3	2
34	232	4.5	2	230	4.2	2
35	234	4.4	2	232	4.2	2
36	236	4.4	2	234	4.1	2
37	236	4.2	2	234	4.1	2
38	238	4.0	2	236	4.1	2
39	238	3.8	2	236	3.9	2
40	240	3.6	3	238	3.8	2
41	242	3.4	3	240	3.6	3
42	242	3.3	3	240	3.5	3
43	242	3.1	3	242	3.3	3
44	244	3.0	3	242	3.2	3
45	244	3.0	3	244	3.1	3
46	246	3.0	3	244	3.1	3
47	246	3.0	3	246	3.1	3
48	248	3.0	3	246	3.2	3
49	248	3.1	3	248	3.2	3
50	250	3.1	3	248	3.2	3
51	250	3.1	3	250	3.3	3
52	252	3.2	3	250	3.3	3
53	252	3.2	3	252	3.3	3
54	254	3.3	3	254	3.4	3
55	254	3.4	3	254	3.5	3
56	256	3.4	3	256	3.5	3
57	258	3.4	3	258	3.5	3
58	258	3.3	3	258	3.4	3
59	260	3.1	4	260	3.2	4
60	262	3.0	4	262	3.1	4
61	262	2.8	4	262	2.9	4
62	264	2.9	4	264	2.9	4
63	266	3.0	4	266	3.0	4
64	266	3.1	4	268	3.1	4
65	268	3.3	4	268	3.2	4
66	270	3.4	4	270	3.3	4
67	272	3.7	4	272	3.6	4
68	276	4.3	4	276	4.1	4
69	278	5.3	4	280	5.1	4
70	280	6.6	4	280	6.5	4
71	280	7.0	4	280	7.0	4
72	280	7.2	4	280	7.2	4

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

**Table M-8. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 3**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	200	10.0	1
2	202	10.0	1	202	10.0	1
3	204	10.0	1	202	10.0	1
4	204	10.0	1	204	10.0	1
5	206	10.0	1	204	8.6	1
6	206	9.2	1	206	6.8	1
7	208	7.2	1	206	5.0	1
8	208	5.7	1	208	4.0	1
9	210	4.3	1	208	3.4	1
10	210	3.6	1	210	3.0	1
11	212	3.1	1	212	2.7	1
12	214	2.8	1	212	2.5	1
13	214	2.6	1	214	2.4	1
14	216	2.4	1	214	2.2	1
15	216	2.2	1	216	2.1	1
16	218	2.1	1	216	2.1	1
17	218	2.1	1	216	2.0	1
18	218	3.1	1	218	2.0	1
19	220	4.0	2	218	2.2	1
20	220	4.9	2	218	3.0	1
21	224	5.8	2	220	3.7	2
22	226	6.7	2	220	4.5	2
23	228	7.2	2	224	5.4	2
24	230	7.1	2	226	6.2	2
25	234	7.0	2	228	6.6	2
26	236	6.7	2	230	6.6	2
27	238	6.5	2	232	6.7	2
28	240	6.3	3	236	6.7	2
29	244	6.1	3	238	6.6	2
30	246	5.9	3	240	6.5	3
31	248	6.0	3	244	6.5	3
32	250	6.1	3	246	6.4	3
33	254	6.4	3	248	6.7	3
34	256	6.0	3	252	7.0	3
35	260	5.6	4	256	6.8	3
36	262	5.2	4	260	6.4	4
37	266	5.0	4	262	6.2	4
38	270	6.1	4	266	6.4	4
39	276	9.5	4	274	9.4	4
40	280	10.0	4	280	10.0	4

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

**Table M-9. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 4**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	10.0	1	206	10.0	1
7	206	10.0	1	206	7.5	1
8	208	10.0	1	206	4.7	1
9	208	6.8	1	208	3.5	1
10	208	4.3	1	210	3.0	1
11	210	3.3	1	210	2.7	1
12	212	2.8	1	212	2.5	1
13	214	2.5	1	212	2.3	1
14	214	2.3	1	214	2.2	1
15	216	2.1	1	214	2.1	1
16	216	1.9	1	216	2.1	1
17	216	1.8	1	216	2.0	1
18	218	1.7	1	216	1.9	1
19	218	1.7	1	218	1.9	1
20	218	1.7	1	218	1.9	1
21	220	2.1	2	218	2.0	1
22	220	2.5	2	218	2.4	1
23	220	2.9	2	220	2.8	2
24	222	3.3	2	220	3.2	2
25	222	3.7	2	222	3.6	2
26	224	4.0	2	222	4.0	2
27	226	4.0	2	224	4.3	2
28	226	3.9	2	226	4.4	2
29	228	3.9	2	226	4.3	2
30	230	3.8	2	228	4.3	2
31	230	3.8	2	230	4.2	2
32	232	3.8	2	230	4.2	2
33	232	3.8	2	232	4.1	2
34	234	3.8	2	232	4.1	2
35	236	3.8	2	234	4.1	2
36	236	3.9	2	236	4.1	2
37	238	4.3	2	236	4.2	2
38	240	4.7	3	238	4.5	2
39	240	5.1	3	240	4.9	3
40	242	5.6	3	240	5.2	3
41	244	6.0	3	242	5.6	3
42	248	6.4	3	244	6.1	3
43	250	6.6	3	248	6.4	3
44	252	6.8	3	250	6.6	3
45	254	6.6	3	252	6.8	3

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
46	258	6.1	3	254	6.6	3
47	260	5.6	4	258	6.2	3
48	262	5.1	4	260	5.7	4
49	264	4.5	4	262	5.3	4
50	266	4.8	4	266	5.0	4
51	270	5.4	4	268	5.7	4
52	274	6.4	4	272	7.1	4
53	280	8.9	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-10. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 5**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	8.2	1
7	206	10.0	1	206	5.5	1
8	206	7.5	1	206	4.1	1
9	208	4.9	1	208	3.3	1
10	208	3.6	1	210	2.9	1
11	210	3.0	1	210	2.6	1
12	212	2.6	1	212	2.4	1
13	212	2.4	1	212	2.2	1
14	214	2.2	1	214	2.1	1
15	214	2.0	1	214	2.0	1
16	214	1.9	1	216	1.9	1
17	216	1.8	1	216	1.8	1
18	216	1.7	1	216	1.8	1
19	216	1.7	1	216	1.7	1
20	218	1.6	1	218	1.7	1
21	218	1.5	1	218	1.7	1
22	218	1.5	1	218	1.8	1
23	220	2.2	2	218	2.4	1
24	220	2.9	2	220	3.0	2
25	220	3.6	2	220	3.6	2
26	222	4.2	2	222	4.2	2
27	224	4.9	2	224	4.8	2
28	226	5.5	2	224	5.4	2
29	228	5.5	2	226	5.7	2
30	228	5.5	2	228	5.6	2

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
31	230	5.5	2	230	5.6	2
32	232	5.5	2	232	5.6	2
33	234	5.5	2	234	5.5	2
34	236	5.5	2	234	5.5	2
35	238	5.5	2	236	5.6	2
36	240	5.6	3	238	5.6	2
37	242	5.7	3	240	5.6	3
38	244	5.8	3	242	5.6	3
39	244	5.9	3	244	5.7	3
40	246	6.0	3	246	5.8	3
41	248	6.1	3	248	5.9	3
42	252	6.3	3	250	6.0	3
43	254	6.4	3	252	6.1	3
44	256	6.0	3	254	6.3	3
45	258	5.5	3	256	5.9	3
46	260	4.9	4	258	5.4	3
47	262	4.3	4	260	4.8	4
48	264	3.6	4	262	4.2	4
49	264	3.6	4	264	3.6	4
50	266	3.9	4	266	3.9	4
51	268	4.4	4	268	4.4	4
52	272	5.4	4	272	5.3	4
53	278	8.0	4	276	7.4	4
54	280	10.0	4	280	10.0	4

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

**Table M-11. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 6**

Raw Score	2013			2012		
	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	8.8	1	206	10.0	1
8	206	4.3	1	206	5.4	1
9	210	3.1	1	208	3.5	1
10	210	2.6	1	210	2.7	1
11	212	2.3	1	212	2.3	1
12	212	2.1	1	212	2.1	1
13	214	1.9	1	214	1.9	1
14	214	1.8	1	214	1.8	1
15	214	1.7	1	216	1.7	1

continued



Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
16	216	1.7	1	216	1.6	1
17	216	1.6	1	216	1.6	1
18	216	1.6	1	216	1.5	1
19	218	1.5	1	218	1.5	1
20	218	1.5	1	218	1.4	1
21	218	1.5	1	218	1.4	1
22	218	1.4	1	218	1.4	1
23	218	2.1	1	218	2.0	1
24	220	2.8	2	220	2.7	2
25	220	3.6	2	220	3.4	2
26	220	4.3	2	220	4.1	2
27	222	5.0	2	222	4.8	2
28	224	5.7	2	224	5.5	2
29	226	6.3	2	226	6.0	2
30	228	6.2	2	228	5.9	2
31	230	6.1	2	230	5.9	2
32	232	6.1	2	232	5.9	2
33	234	6.0	2	234	5.9	2
34	236	5.8	2	236	5.8	2
35	238	5.7	2	238	5.6	2
36	240	5.5	3	238	5.5	2
37	242	5.3	3	240	5.4	3
38	244	5.2	3	242	5.3	3
39	244	5.0	3	244	5.2	3
40	246	5.0	3	246	5.1	3
41	248	5.1	3	248	5.2	3
42	250	5.1	3	248	5.3	3
43	252	5.2	3	250	5.4	3
44	254	5.3	3	252	5.5	3
45	256	5.0	3	254	5.5	3
46	258	4.6	3	258	5.1	3
47	260	4.1	4	260	4.6	4
48	262	3.6	4	262	4.1	4
49	264	3.1	4	262	3.6	4
50	266	3.4	4	264	3.5	4
51	268	3.9	4	266	3.9	4
52	270	4.7	4	270	4.7	4
53	276	6.7	4	274	6.6	4
54	280	10.0	4	280	10.0	4

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

**Table M-12. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 7**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	202	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	9.9	1
8	206	4.6	1	206	6.5	1
9	208	3.1	1	206	4.2	1
10	210	2.5	1	208	3.3	1
11	212	2.2	1	210	2.9	1
12	212	2.0	1	212	2.6	1
13	212	1.8	1	212	2.4	1
14	214	1.7	1	214	2.2	1
15	214	1.6	1	214	2.1	1
16	214	1.6	1	216	1.9	1
17	216	1.5	1	216	1.8	1
18	216	1.5	1	216	1.7	1
19	216	1.4	1	216	1.6	1
20	216	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	1.3	1	218	1.6	1
24	218	1.5	1	220	2.3	2
25	220	2.2	2	220	3.0	2
26	220	3.0	2	220	3.7	2
27	220	3.8	2	222	4.4	2
28	222	4.5	2	224	5.1	2
29	224	5.3	2	224	5.7	2
30	226	6.0	2	226	6.2	2
31	228	6.2	2	228	6.2	2
32	230	6.1	2	230	6.1	2
33	232	6.1	2	232	6.0	2
34	234	6.1	2	234	6.0	2
35	236	6.0	2	236	5.8	2
36	238	5.8	2	238	5.6	2
37	240	5.6	3	238	5.5	2
38	240	5.4	3	240	5.3	3
39	242	5.2	3	242	5.2	3
40	244	5.0	3	244	5.0	3
41	246	4.9	3	246	4.9	3
42	248	5.0	3	246	5.0	3
43	250	5.0	3	248	5.1	3
44	252	5.1	3	250	5.3	3
45	254	5.2	3	252	5.4	3

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
46	256	5.3	3	254	5.6	3
47	258	4.9	3	258	5.2	3
48	260	4.5	4	260	4.9	4
49	262	4.0	4	262	4.5	4
50	264	3.6	4	264	4.2	4
51	266	3.9	4	266	4.6	4
52	268	4.7	4	270	5.8	4
53	272	6.7	4	276	8.9	4
54	280	10.0	4	280	10.0	4

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

**Table M-13. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 8**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	5.0	1
8	206	7.2	1	208	3.3	1
9	208	4.1	1	210	2.6	1
10	210	3.1	1	212	2.2	1
11	212	2.5	1	212	2.0	1
12	212	2.2	1	214	1.9	1
13	214	2.0	1	214	1.8	1
14	214	1.9	1	216	1.7	1
15	214	1.8	1	216	1.6	1
16	216	1.7	1	216	1.6	1
17	216	1.6	1	216	1.5	1
18	216	1.5	1	218	1.5	1
19	218	1.5	1	218	1.4	1
20	218	1.4	1	218	1.4	1
21	218	1.4	1	218	1.3	1
22	218	1.3	1	220	2.0	2
23	218	1.8	1	220	2.7	2
24	220	2.7	2	220	3.4	2
25	220	3.5	2	220	4.1	2
26	220	4.4	2	222	4.7	2
27	222	5.2	2	224	5.4	2
28	224	6.0	2	226	5.8	2
29	228	6.7	2	228	5.8	2
30	230	6.6	2	230	5.7	2

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
31	232	6.6	2	232	5.7	2
32	234	6.6	2	234	5.7	2
33	236	6.4	2	234	5.6	2
34	238	6.3	2	236	5.5	2
35	240	6.1	3	238	5.3	2
36	242	6.0	3	240	5.2	3
37	242	5.8	3	242	5.1	3
38	244	5.7	3	244	5.0	3
39	246	5.7	3	244	4.9	3
40	248	5.7	3	246	4.9	3
41	250	5.8	3	248	5.0	3
42	252	5.9	3	250	5.1	3
43	254	5.9	3	252	5.2	3
44	256	5.4	3	254	5.4	3
45	258	5.0	3	256	5.2	3
46	260	4.5	4	258	4.8	3
47	262	4.1	4	260	4.5	4
48	264	3.7	4	262	4.1	4
49	266	4.0	4	264	3.7	4
50	268	4.4	4	264	3.9	4
51	270	5.1	4	268	4.4	4
52	274	6.3	4	270	5.4	4
53	280	8.9	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-14. 2013 MCAS: Raw to Scaled Score Lookup Table –  
Mathematics Grade 10**

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
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	212	3.4	1	210	5.3	1
9	214	2.4	1	214	2.3	1
10	216	1.9	1	216	1.7	1
11	216	1.6	1	216	1.4	1
12	218	1.5	1	216	1.3	1
13	218	1.3	1	218	1.2	1
14	218	1.2	1	218	1.1	1
15	218	1.2	1	218	1.1	1

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
16	218	1.2	1	218	1.0	1
17	220	2.2	2	220	1.9	2
18	220	3.2	2	220	2.9	2
19	220	4.1	2	220	3.8	2
20	222	4.9	2	222	4.7	2
21	224	5.8	2	224	5.5	2
22	226	6.6	2	226	6.3	2
23	228	6.7	2	228	6.4	2
24	230	6.6	2	230	6.2	2
25	232	6.5	2	232	6.1	2
26	234	6.4	2	234	5.9	2
27	236	6.3	2	236	5.8	2
28	238	6.2	2	238	5.7	2
29	240	6.1	3	240	5.7	3
30	240	6.1	3	240	5.6	3
31	242	6.0	3	242	5.6	3
32	244	6.0	3	244	5.5	3
33	246	5.9	3	246	5.5	3
34	248	5.9	3	248	5.5	3
35	250	5.9	3	248	5.5	3
36	250	5.9	3	250	5.5	3
37	252	5.9	3	252	5.5	3
38	254	5.9	3	254	5.5	3
39	256	5.3	3	256	5.2	3
40	258	4.7	3	258	4.6	3
41	260	4.1	4	258	4.0	3
42	260	3.6	4	260	3.4	4
43	260	2.9	4	260	2.8	4
44	262	2.3	4	262	2.2	4
45	262	2.0	4	262	1.7	4
46	262	2.0	4	262	1.7	4
47	264	2.0	4	264	1.7	4
48	264	2.1	4	264	1.7	4
49	266	2.1	4	264	1.8	4
50	266	2.2	4	266	1.8	4
51	266	2.2	4	266	1.9	4
52	268	2.3	4	266	1.9	4
53	268	2.4	4	268	2.0	4
54	270	2.6	4	268	2.2	4
55	272	2.8	4	270	2.3	4
56	272	3.0	4	270	2.6	4
57	274	3.4	4	272	2.9	4
58	278	4.2	4	274	3.5	4
59	280	5.9	4	278	4.9	4
60	280	10.0	4	280	10.0	4

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

**Table M-15. 2013 MCAS: Raw to Scaled Score Lookup Table –  
STE Grade 5**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	9.8	1	204	9.6	1
6	204	8.4	1	204	8.1	1
7	206	7.2	1	206	6.9	1
8	206	6.2	1	206	5.9	1
9	208	5.3	1	208	5.1	1
10	208	4.4	1	208	4.3	1
11	208	3.7	1	210	3.7	1
12	210	3.3	1	210	3.3	1
13	210	3.0	1	212	3.0	1
14	212	2.8	1	212	2.8	1
15	212	2.6	1	214	2.6	1
16	214	2.5	1	214	2.4	1
17	214	2.4	1	216	2.3	1
18	216	2.3	1	216	2.2	1
19	216	2.2	1	216	2.1	1
20	216	2.1	1	218	2.1	1
21	218	2.1	1	218	2.1	1
22	218	2.1	1	218	2.7	1
23	218	2.6	1	220	3.3	2
24	220	3.2	2	220	3.8	2
25	220	3.8	2	222	4.4	2
26	222	4.3	2	224	5.0	2
27	224	4.9	2	226	5.5	2
28	224	5.4	2	226	5.6	2
29	226	5.7	2	228	5.6	2
30	228	5.6	2	230	5.6	2
31	230	5.6	2	232	5.5	2
32	232	5.6	2	234	5.5	2
33	234	5.6	2	236	5.6	2
34	236	5.7	2	238	5.8	2
35	236	5.9	2	238	6.0	2
36	238	6.1	2	240	6.2	3
37	240	6.3	3	242	6.4	3
38	242	6.6	3	246	6.6	3
39	246	6.8	3	248	6.9	3
40	248	7.1	3	250	6.9	3
41	250	7.2	3	252	7.0	3
42	252	7.4	3	254	6.8	3
43	256	6.9	3	256	6.3	3
44	258	6.4	3	260	5.8	4
45	260	5.9	4	262	5.4	4

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
46	262	5.3	4	262	4.9	4
47	264	4.8	4	264	4.5	4
48	266	4.8	4	266	4.7	4
49	268	5.2	4	268	5.0	4
50	272	5.6	4	272	5.5	4
51	274	6.3	4	274	6.2	4
52	278	7.5	4	278	7.3	4
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-16. 2013 MCAS: Raw to Scaled Score Lookup Table – STE Grade 8**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	10.0	1
8	206	10.0	1	206	8.6	1
9	208	6.5	1	208	5.6	1
10	208	4.1	1	208	4.0	1
11	210	3.1	1	210	3.3	1
12	212	2.6	1	212	2.8	1
13	212	2.3	1	212	2.5	1
14	214	2.1	1	214	2.3	1
15	214	1.9	1	214	2.1	1
16	214	1.8	1	214	2.0	1
17	216	1.7	1	216	1.9	1
18	216	1.7	1	216	1.8	1
19	216	1.6	1	216	1.7	1
20	218	1.6	1	218	1.6	1
21	218	1.5	1	218	1.6	1
22	218	1.5	1	218	1.6	1
23	218	1.8	1	218	2.0	1
24	220	2.5	2	220	2.6	2
25	220	3.1	2	220	3.2	2
26	220	3.6	2	220	3.8	2
27	222	4.2	2	222	4.4	2
28	224	4.8	2	224	5.0	2
29	226	5.2	2	226	5.5	2
30	228	5.2	2	228	5.4	2

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
31	228	5.1	2	230	5.4	2
32	230	5.1	2	230	5.3	2
33	232	5.0	2	232	5.3	2
34	234	5.0	2	234	5.3	2
35	236	5.0	2	236	5.2	2
36	236	4.8	2	238	5.0	2
37	238	4.6	2	240	4.8	3
38	240	4.4	3	240	4.7	3
39	242	4.2	3	242	4.5	3
40	242	4.0	3	244	4.3	3
41	244	3.9	3	244	4.3	3
42	246	3.9	3	246	4.4	3
43	246	4.0	3	248	4.5	3
44	248	4.1	3	250	4.6	3
45	250	4.2	3	252	4.8	3
46	252	4.3	3	254	5.0	3
47	254	4.5	3	256	5.4	3
48	256	4.8	3	258	6.0	3
49	258	5.4	3	262	6.8	4
50	260	6.2	4	266	7.9	4
51	264	7.4	4	270	9.4	4
52	270	9.1	4	278	10.0	4
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. 2013 MCAS: Raw to Scaled Score Lookup Table – High School Biology**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	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	10.0	1	210	4.5	1
12	212	5.0	1	212	3.2	1
13	214	3.0	1	214	2.6	1
14	216	2.3	1	214	2.3	1
15	216	1.9	1	216	2.1	1

continued



Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
16	218	1.7	1	216	1.9	1
17	218	1.6	1	218	1.8	1
18	218	1.4	1	218	1.7	1
19	218	1.8	1	218	1.8	1
20	220	2.5	2	220	2.5	2
21	220	3.3	2	220	3.3	2
22	220	4.0	2	220	4.0	2
23	222	4.8	2	222	4.7	2
24	224	5.5	2	224	5.4	2
25	226	6.0	2	226	6.1	2
26	228	5.9	2	228	5.9	2
27	230	5.8	2	230	5.8	2
28	232	5.7	2	232	5.6	2
29	234	5.6	2	234	5.5	2
30	236	5.4	2	234	5.4	2
31	238	5.1	2	236	5.1	2
32	238	4.8	2	238	4.8	2
33	240	4.6	3	240	4.5	3
34	242	4.3	3	242	4.2	3
35	242	4.0	3	242	4.0	3
36	244	3.8	3	244	3.7	3
37	246	3.8	3	244	3.7	3
38	246	3.8	3	246	3.7	3
39	248	3.8	3	248	3.8	3
40	248	3.8	3	248	3.8	3
41	250	3.8	3	250	3.9	3
42	252	3.8	3	252	3.9	3
43	252	3.9	3	252	4.0	3
44	254	4.0	3	254	4.1	3
45	256	4.0	3	256	4.2	3
46	256	3.9	3	258	4.1	3
47	258	3.7	3	258	3.8	3
48	260	3.5	4	260	3.6	4
49	262	3.2	4	262	3.3	4
50	262	3.0	4	262	3.0	4
51	264	3.0	4	264	3.0	4
52	266	3.1	4	266	3.2	4
53	266	3.3	4	268	3.4	4
54	268	3.5	4	268	3.6	4
55	270	3.7	4	270	3.8	4
56	272	4.0	4	272	4.1	4
57	276	4.5	4	276	4.4	4
58	278	5.4	4	278	5.0	4
59	280	7.6	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-18. 2013 MCAS: Raw to Scaled Score Lookup Table –  
High School Chemistry**

<i>Raw Score</i>	<i>2013</i>			<i>2012</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	10.0	1
8	206	10.0	1	206	10.0	1
9	206	10.0	1	206	10.0	1
10	210	4.7	1	208	6.0	1
11	212	2.7	1	212	3.6	1
12	214	2.1	1	214	2.7	1
13	214	1.8	1	214	2.2	1
14	216	1.6	1	214	1.9	1
15	216	1.4	1	216	1.7	1
16	216	1.3	1	216	1.5	1
17	218	1.2	1	216	1.4	1
18	218	1.1	1	218	1.3	1
19	218	1.1	1	218	1.2	1
20	218	1.0	1	218	1.1	1
21	218	1.0	1	218	1.1	1
22	218	1.0	1	218	1.0	1
23	220	1.0	2	220	1.4	2
24	220	1.9	2	220	2.4	2
25	220	2.8	2	220	3.3	2
26	220	3.7	2	220	4.2	2
27	222	4.5	2	222	5.2	2
28	224	5.4	2	224	6.1	2
29	226	6.2	2	226	7.0	2
30	228	6.7	2	228	7.2	2
31	230	6.6	2	230	7.1	2
32	232	6.6	2	232	7.1	2
33	234	6.6	2	234	6.8	2
34	236	6.4	2	236	6.6	2
35	238	6.1	2	238	6.3	2
36	240	5.9	3	240	6.0	3
37	242	5.7	3	242	5.8	3
38	242	5.5	3	244	5.6	3
39	244	5.3	3	246	5.3	3
40	246	5.2	3	246	5.3	3
41	248	5.3	3	248	5.3	3
42	250	5.4	3	250	5.3	3
43	252	5.4	3	252	5.3	3
44	252	5.5	3	254	5.3	3
45	254	5.5	3	256	5.2	3

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
46	256	5.0	3	256	4.7	3
47	258	4.4	3	258	4.2	3
48	260	3.8	4	260	3.7	4
49	262	3.2	4	260	3.2	4
50	262	2.6	4	262	2.7	4
51	264	2.6	4	262	2.3	4
52	264	2.7	4	264	2.4	4
53	266	2.9	4	264	2.5	4
54	268	3.0	4	266	2.7	4
55	270	3.2	4	266	2.8	4
56	272	3.5	4	268	3.1	4
57	274	3.8	4	270	3.5	4
58	276	4.3	4	272	4.3	4
59	280	5.6	4	278	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-19. 2013 MCAS: Raw to Scaled Score Lookup Table – High School Introductory Physics**

Raw Score	2013			2012		
	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	10.0	1	212	5.6	1
12	212	10.0	1	214	3.1	1
13	214	4.2	1	216	2.3	1
14	216	2.5	1	216	1.9	1
15	216	1.9	1	216	1.6	1
16	218	1.6	1	218	1.5	1
17	218	1.4	1	218	1.4	1
18	218	1.2	1	218	1.3	1
19	218	1.4	1	218	1.6	1
20	220	2.2	2	220	2.4	2
21	220	3.1	2	220	3.2	2
22	220	3.9	2	220	3.9	2
23	222	4.6	2	222	4.6	2
24	224	5.4	2	224	5.4	2

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
25	226	5.8	2	226	5.8	2
26	228	5.7	2	228	5.8	2
27	230	5.6	2	230	5.7	2
28	232	5.6	2	232	5.6	2
29	234	5.5	2	234	5.6	2
30	236	5.4	2	234	5.5	2
31	238	5.1	2	236	5.3	2
32	238	4.9	2	238	5.1	2
33	240	4.7	3	240	4.9	3
34	242	4.6	3	242	4.7	3
35	242	4.4	3	242	4.5	3
36	244	4.2	3	244	4.4	3
37	246	4.2	3	246	4.3	3
38	246	4.2	3	246	4.3	3
39	248	4.2	3	248	4.4	3
40	250	4.2	3	250	4.4	3
41	250	4.2	3	250	4.4	3
42	252	4.3	3	252	4.5	3
43	254	4.3	3	254	4.5	3
44	256	4.3	3	256	4.6	3
45	256	4.1	3	258	4.3	3
46	258	3.8	3	258	3.9	3
47	260	3.5	4	260	3.6	4
48	260	3.2	4	262	3.3	4
49	262	2.8	4	262	2.9	4
50	262	2.6	4	264	2.8	4
51	264	2.7	4	264	2.9	4
52	266	2.8	4	266	3.1	4
53	266	2.9	4	268	3.2	4
54	268	3.0	4	270	3.4	4
55	270	3.2	4	270	3.7	4
56	272	3.6	4	274	4.0	4
57	274	4.1	4	276	4.5	4
58	278	4.9	4	280	5.3	4
59	280	6.8	4	280	7.2	4
60	280	10.0	4	280	10.0	4

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

**Table M-20. 2013 MCAS: Raw to Scaled Score Lookup Table – High School Technology/Engineering**

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
0	200	10.0	1	200	9.4	1
1	202	4.5	1	200	5.3	1
2	204	3.2	1	202	3.8	1
3	206	2.7	1	206	3.1	1

continued

Raw Score	2013			2012		
	Scaled Score	Standard Error	Performance Level	Scaled Score	Standard Error	Performance Level
4	208	2.4	1	208	2.6	1
5	210	2.1	1	208	2.3	1
6	210	2.0	1	210	2.1	1
7	212	1.9	1	210	2.0	1
8	212	1.8	1	212	1.9	1
9	212	1.7	1	212	1.8	1
10	214	1.6	1	212	1.7	1
11	214	1.6	1	214	1.7	1
12	214	1.6	1	214	1.6	1
13	214	1.5	1	214	1.6	1
14	216	1.5	1	214	1.5	1
15	216	1.5	1	216	1.5	1
16	216	1.4	1	216	1.5	1
17	216	1.4	1	216	1.4	1
18	216	1.4	1	216	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	1.4	1
22	218	1.4	1	218	1.4	1
23	218	2.0	1	218	1.8	1
24	220	2.7	2	220	2.5	2
25	220	3.4	2	220	3.2	2
26	220	4.2	2	220	4.0	2
27	222	4.9	2	222	4.7	2
28	224	5.6	2	224	5.5	2
29	226	6.4	2	226	6.2	2
30	228	6.6	2	228	6.6	2
31	230	6.6	2	230	6.6	2
32	232	6.7	2	232	6.6	2
33	234	6.6	2	234	6.7	2
34	236	6.2	2	236	6.2	2
35	238	5.8	2	238	5.8	2
36	240	5.3	3	240	5.4	3
37	240	4.9	3	240	4.9	3
38	242	4.5	3	242	4.5	3
39	244	4.1	3	242	4.1	3
40	244	3.8	3	244	3.7	3
41	246	3.9	3	244	3.8	3
42	246	4.0	3	246	3.8	3
43	248	4.1	3	248	3.9	3
44	250	4.2	3	248	4.0	3
45	250	4.4	3	250	4.1	3
46	252	4.5	3	252	4.2	3
47	254	4.7	3	252	4.4	3
48	256	4.8	3	254	4.5	3
49	258	4.6	3	256	4.6	3
50	260	4.5	4	258	4.4	3
51	260	4.3	4	260	4.3	4

continued

<i>Raw Score</i>	<i>2013</i>			<i>2012</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>
52	262	4.2	4	262	4.1	4
53	264	4.1	4	262	4.0	4
54	266	4.4	4	264	4.0	4
55	268	4.8	4	266	4.3	4
56	270	5.2	4	268	4.8	4
57	274	5.8	4	272	5.4	4
58	278	6.7	4	274	6.4	4
59	280	8.5	4	280	8.7	4
60	280	10.0	4	280	10.0	4

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