

# **APPENDIX J**

## **ANALYSIS OF EQUATING ITEMS**



**Table J-1. 2013 MCAS: Delta Analysis Results –  
ELA Grade 3**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
231813	0.85000	0.85000	8.85427	8.85427	False	-1.29091
231816	0.88000	0.87000	8.30005	8.49444	False	0.11260
231821	0.71000	0.67000	10.78646	11.24035	False	1.56662
231823	0.75000	0.79000	10.30204	9.77432	False	2.43556
231828	0.58000	0.54000	12.19243	12.59827	False	1.05464
257014	0.84000	0.83000	9.02217	9.18334	False	-0.20882
257015	0.81000	0.81000	9.48841	9.48841	False	-1.28492
257016	0.82000	0.83000	9.33854	9.18334	False	-0.24137
257021	0.70000	0.72000	10.90240	10.66863	False	0.50017
257022	0.78000	0.76000	9.91123	10.17479	False	0.37686
257028	0.79000	0.78000	9.77432	9.91123	False	-0.47281
257031	0.80000	0.80000	9.63352	9.63352	False	-1.26604
257033	0.74000	0.75000	10.42662	10.30204	False	-0.30959
257034	0.79000	0.79000	9.77432	9.77432	False	-1.24773
257036	0.87000	0.87000	8.49444	8.49444	False	-1.24410
257044	0.43750	0.42750	13.62924	13.73097	False	-1.21526
257106	0.59000	0.58000	12.08982	12.19243	False	-1.00900
257109	0.67000	0.71000	11.24035	10.78646	False	2.05185
257111	0.66000	0.69000	11.35015	11.01660	False	1.24189
257114	0.60000	0.61000	11.98661	11.88272	False	-0.24837
257118	0.78000	0.79000	9.91123	9.77432	False	-0.29214
257119	0.79000	0.79000	9.77432	9.77432	False	-1.24773
257120	0.60000	0.61000	11.98661	11.88272	False	-0.24837
257123	0.64000	0.61000	11.56616	11.88272	False	0.52458
257124	0.68000	0.71000	11.12920	10.78646	False	1.27613
257127	0.74000	0.72000	10.42662	10.66863	False	0.16223
257128	0.37750	0.35750	14.24821	14.46060	False	-0.53785
284133	0.79000	0.77000	9.77432	10.04461	False	0.44080
284135	0.86000	0.85000	8.67872	8.85427	False	-0.06569
284136	0.56000	0.58000	12.39612	12.19243	False	0.48853
284143	0.69000	0.66000	11.01660	11.35015	False	0.71244
284144	0.64000	0.65000	11.56616	11.45872	False	-0.27869
286604A	0.58000	0.54500	12.19243	12.54785	False	0.70929
286605B	0.62500	0.61500	11.72544	11.83050	False	-0.94480

**Table J-2. 2013 MCAS: Delta Analysis Results –  
ELA Grade 4**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
255565	0.72000	0.75000	10.66863	10.30204	False	2.11262
255567	0.67000	0.66000	11.24035	11.35015	False	-1.03064
255583	0.70000	0.71000	10.90240	10.78646	False	0.25937
255585	0.71000	0.66000	10.78646	11.35015	False	2.30396
255586	0.87000	0.87000	8.49444	8.49444	False	-0.53686

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
255592	0.55000	0.56000	12.49735	12.39612	False	0.11233
255596	0.81000	0.81000	9.48841	9.48841	False	-0.56094
255608	0.90000	0.90000	7.87379	7.87379	False	-0.52182
255612	0.73000	0.70000	10.54875	10.90240	False	0.75002
255619	0.84000	0.83000	9.02217	9.18334	False	-0.70574
255620	0.42000	0.41500	13.80757	13.85881	False	-1.04323
256081	0.79000	0.79000	9.77432	9.77432	False	-0.56787
256084	0.87000	0.87000	8.49444	8.49444	False	-0.53686
256149	0.74000	0.71000	10.42662	10.78646	False	0.79271
256150	0.82000	0.80000	9.33854	9.63352	False	0.28821
256164	0.70000	0.69000	10.90240	11.01660	False	-1.00639
256173	0.77000	0.76000	10.04461	10.17479	False	-0.90941
256184	0.67000	0.70000	11.24035	10.90240	False	1.88764
256192	0.82000	0.81000	9.33854	9.48841	False	-0.78133
256199	0.82000	0.80000	9.33854	9.63352	False	0.28821
256212	0.48750	0.46500	13.12535	13.35138	False	-0.12825
256807	0.79000	0.79000	9.77432	9.77432	False	-0.56787
268943	0.69000	0.68000	11.01660	11.12920	False	-1.01538
268948	0.86000	0.85000	8.67872	8.85427	False	-0.60811
268949	0.83000	0.83000	9.18334	9.18334	False	-0.55355
268951	0.70000	0.72000	10.90240	10.66863	False	1.12787
268952	0.80000	0.77000	9.63352	10.04461	False	1.15129

**Table J-3. 2013 MCAS: Delta Analysis Results –  
ELA Grade 5**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
205133	0.70000	0.73000	10.90240	10.54875	False	0.30670
205134	0.59000	0.58000	12.08982	12.19243	False	-0.21653
205136	0.77000	0.80000	10.04461	9.63352	False	0.44989
205139	0.86000	0.87000	8.67872	8.49444	False	-0.66940
205143	0.67000	0.75000	11.24035	10.30204	False	2.82092
205145	0.89000	0.90000	8.09389	7.87379	False	-0.58599
205146	0.62000	0.62000	11.77808	11.77808	False	-0.61452
205147	0.76000	0.77000	10.17479	10.04461	False	-0.72406
205148	0.65000	0.65000	11.45872	11.45872	False	-0.57730
205153	0.53250	0.56750	12.67378	12.31995	False	0.51392
250901	0.84000	0.85000	9.02217	8.85427	False	-0.69872
266012	0.80000	0.82000	9.63352	9.33854	False	-0.08957
266014	0.72000	0.71000	10.66863	10.78646	False	0.01355
266018	0.65000	0.66000	11.45872	11.35015	False	-0.66587
266022	0.83000	0.85000	9.18334	8.85427	False	0.00229
266023	0.91000	0.92000	7.63698	7.37971	False	-0.48190
286797	0.70000	0.70000	10.90240	10.90240	False	-0.51245
286799	0.84000	0.85000	9.02217	8.85427	False	-0.69872
286801	0.86000	0.87000	8.67872	8.49444	False	-0.66940
286804	0.60000	0.57000	11.98661	12.29450	False	0.66447

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
286806	0.88000	0.88000	8.30005	8.30005	False	-0.20913
286810	0.51250	0.52000	12.87465	12.79939	False	-0.64183
291513	0.71000	0.72000	10.78646	10.66863	False	-0.70505
291514	0.78000	0.79000	9.91123	9.77432	False	-0.72628
291573	0.50000	0.46000	13.00000	13.40173	False	0.94359
291574	0.78000	0.77000	9.91123	10.04461	False	0.16769
291576	0.71000	0.70000	10.78646	10.90240	False	-0.00818
291577	0.82000	0.81000	9.33854	9.48841	False	0.30424
291579	0.85000	0.86000	8.85427	8.67872	False	-0.68594
291580	0.80000	0.73000	9.63352	10.54875	True	3.50960
291582	0.64000	0.65000	11.56616	11.45872	False	-0.65811
291593	0.72000	0.72000	10.66863	10.66863	False	-0.48521
291595	0.48000	0.54000	13.20061	12.59827	False	1.62731

**Table J-4. 2013 MCAS: Delta Analysis Results –  
ELA Grade 6**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
257352	0.70000	0.73000	10.90240	10.54875	False	-0.17357
257357	0.72000	0.72000	10.66863	10.66863	False	-0.59975
257359	0.75000	0.74000	10.30204	10.42662	False	-0.07510
257363	0.73000	0.75000	10.54875	10.30204	False	-0.61302
257375	0.90000	0.90000	7.87379	7.87379	False	-1.10483
257665	0.83000	0.84000	9.18334	9.02217	False	-0.66058
257668	0.74000	0.73000	10.42662	10.54875	False	-0.05246
257669	0.77000	0.77000	10.04461	10.04461	False	-0.77495
257676	0.61000	0.59000	11.88272	12.08982	False	0.78438
257686	0.74000	0.77000	10.42662	10.04461	False	0.10285
257689	0.53000	0.55750	12.69892	12.42146	False	-1.06180
271371	0.80000	0.78000	9.63352	9.91123	False	0.50864
271375	0.74000	0.72000	10.42662	10.66863	False	0.55148
271383	0.80000	0.79000	9.63352	9.77432	False	-0.18107
271384	0.72000	0.71000	10.66863	10.78646	False	-0.00618
271387	0.66000	0.66000	11.35015	11.35015	False	-0.40841
271390	0.76000	0.74000	10.17479	10.42662	False	0.53021
271396	0.77000	0.76000	10.04461	10.17479	False	-0.11917
271401	0.88000	0.88000	8.30005	8.30005	False	-1.22450
271402	0.86000	0.86000	8.67872	8.67872	False	-1.15843
271410	0.77000	0.77000	10.04461	10.04461	False	-0.77495
271412	0.54750	0.55000	12.52261	12.49735	False	-0.20646
276509	0.67000	0.72000	11.24035	10.66863	False	0.83006
276512	0.71000	0.73000	10.78646	10.54875	False	-0.72507
276513	0.83000	0.86000	9.18334	8.67872	False	1.06957
276514	0.87000	0.87000	8.49444	8.49444	False	-1.21017
276516	0.74000	0.76000	10.42662	10.17479	False	-0.55293
276517	0.85000	0.87000	8.85427	8.49444	False	0.43259
276518	0.67000	0.67000	11.24035	11.24035	False	-0.43924

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
276521	0.72000	0.77000	10.66863	10.04461	False	1.25408
276524	0.58000	0.69000	12.19243	11.01660	True	3.60605
276526	0.77000	0.73000	10.04461	10.54875	False	1.76469
276531	0.48000	0.54500	13.20061	12.54785	False	0.68803

**Table J-5. 2013 MCAS: Delta Analysis Results –  
ELA Grade 7**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
222437	0.89000	0.89000	8.09389	8.09389	False	-0.10676
222445	0.68000	0.68000	11.12920	11.12920	False	-0.65713
222464	0.79000	0.79000	9.77432	9.77432	False	-0.41146
222465	0.63000	0.59000	11.67259	12.08982	False	0.77241
222466	0.71000	0.72000	10.78646	10.66863	False	-0.93026
224998	0.78000	0.78000	9.91123	9.91123	False	-0.43629
224999	0.60000	0.59000	11.98661	12.08982	False	-0.43461
225000	0.82000	0.83000	9.33854	9.18334	False	-0.90085
225002	0.60000	0.58000	11.98661	12.19243	False	-0.05883
225004	0.75000	0.76000	10.30204	10.17479	False	-0.97319
225008	0.65000	0.66000	11.45872	11.35015	False	-0.84227
225044	0.90000	0.90000	7.87379	7.87379	False	-0.06685
225050	0.72000	0.70000	10.66863	10.90240	False	0.28251
225051	0.75000	0.75000	10.30204	10.30204	False	-0.50715
225055	0.60000	0.57500	11.98661	12.24353	False	0.12832
233976	0.87000	0.85000	8.49444	8.85427	False	1.13845
233987	0.75000	0.74000	10.30204	10.42662	False	-0.05090
233993	0.77000	0.79000	10.04461	9.77432	False	-0.50637
233999	0.62000	0.62000	11.77808	11.77808	False	-0.77479
234003	0.78000	0.79000	9.91123	9.77432	False	-0.93771
234009	0.63750	0.61000	11.59286	11.88272	False	0.32038
234046	0.85000	0.89000	8.85427	8.09389	False	1.07266
234066	0.82000	0.88000	9.33854	8.30005	False	2.17900
234075	0.66000	0.72000	11.35015	10.66863	False	1.23638
234082	0.89000	0.91000	8.09389	7.63698	False	-0.17664
234102	0.65000	0.69000	11.45872	11.01660	False	0.37931
234103	0.74000	0.76000	10.42662	10.17479	False	-0.50474
234107	0.72000	0.74000	10.66863	10.42662	False	-0.49680
234109	0.66000	0.64000	11.35015	11.56616	False	0.09394
234114	0.78000	0.78000	9.91123	9.91123	False	-0.43629
234119	0.63000	0.64000	11.67259	11.56616	False	-0.81136
234121	0.49750	0.62500	13.02507	11.72544	True	3.80383
273055	0.80000	0.80000	9.63352	9.63352	False	-0.38593

**Table J-6. 2013 MCAS: Delta Analysis Results –  
ELA Grade 8**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
207096	0.72000	0.71000	10.66863	10.78646	False	-0.89794
207099	0.84000	0.84000	9.02217	9.02217	False	-0.70085
207101	0.89000	0.89000	8.09389	8.09389	False	-0.52290
207104	0.71000	0.73000	10.78646	10.54875	False	0.00074
207118	0.74000	0.74000	10.42662	10.42662	False	-0.97006
207159	0.89000	0.88000	8.09389	8.30005	False	-1.00509
207176	0.86000	0.82000	8.67872	9.33854	False	1.09135
207180	0.64000	0.64000	11.56616	11.56616	False	-1.18850
207185	0.59000	0.58000	12.08982	12.19243	False	-0.69209
207190	0.64000	0.65000	11.56616	11.45872	False	-0.71852
207193	0.69500	0.68500	10.95971	11.07309	False	-0.86157
227758	0.79000	0.80000	9.77432	9.63352	False	-0.22915
227759	0.75000	0.75000	10.30204	10.30204	False	-0.94618
227760	0.84000	0.86000	9.02217	8.67872	False	0.80143
227764	0.95000	0.95000	6.42059	6.42059	False	-0.20215
227769	0.90000	0.91000	7.87379	7.63698	False	0.55514
227773	0.71000	0.71000	10.78646	10.78646	False	-1.03904
227774	0.83000	0.87000	9.18334	8.49444	False	2.28161
227777	0.74000	0.76000	10.42662	10.17479	False	0.13146
227779	0.57000	0.59000	12.29450	12.08982	False	-0.43281
227781	0.58000	0.61000	12.19243	11.88272	False	0.04612
227783	0.68250	0.68750	11.10120	11.04489	False	-0.85311
283673	0.74000	0.75000	10.42662	10.30204	False	-0.42515
283675	0.87000	0.83000	8.49444	9.18334	False	1.18325
283677	0.87000	0.83000	8.49444	9.18334	False	1.18325
283678	0.88000	0.84000	8.30005	9.02217	False	1.29126
283679	0.86000	0.81000	8.67872	9.48841	False	1.74692
283684	0.66000	0.62000	11.35015	11.77808	False	0.58913
283685	0.59000	0.59000	12.08982	12.08982	False	-1.14090
283692	0.68000	0.67000	11.12920	11.24035	False	-0.83889
283693	0.67000	0.72000	11.24035	10.66863	False	1.37470
283698	0.64750	0.62750	11.48568	11.69904	False	-0.32344
287562	0.77000	0.71000	10.04461	10.78646	False	1.71199

**Table J-7. 2013 MCAS: Delta Analysis Results –  
ELA Grade 10**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
287071	0.71000	0.76000	10.78646	10.17479	False	-0.84225
287074	0.83000	0.88000	9.18334	8.30005	False	-0.53674
287077	0.75000	0.75000	10.30204	10.30204	False	0.79895
287078	0.83000	0.87000	9.18334	8.49444	False	-1.22717
287079	0.77000	0.82000	10.04461	9.33854	False	-0.81447
287082	0.78000	0.78000	9.91123	9.91123	False	0.96486
287085	0.76000	0.81000	10.17479	9.48841	False	-0.83072

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
287086	0.76000	0.80000	10.17479	9.63352	False	-1.11211
287089	0.55250	0.67500	12.47208	11.18495	False	2.32556
293543	0.81000	0.83000	9.48841	9.18334	False	0.03679
293546	0.77000	0.80000	10.04461	9.63352	False	-0.58424
293553	0.74000	0.70000	10.42662	10.90240	False	2.47336
293554	0.74000	0.74000	10.42662	10.42662	False	0.74606
293557	0.60250	0.67000	11.96071	11.24035	False	0.05083
296569	0.84000	0.88000	9.02217	8.30005	False	-1.19028
296572	0.87000	0.91000	8.49444	7.63698	False	-0.92297
296576	0.86000	0.93000	8.67872	7.09684	False	1.78528
296577	0.92000	0.96000	7.37971	5.99726	False	0.50980
296579	0.96000	0.98000	5.99726	4.78500	False	-0.69502
296584	0.73000	0.77000	10.54875	10.04461	False	-1.13603
296587	0.81000	0.87000	9.48841	8.49444	False	-0.00536
296590	0.85000	0.90000	8.85427	7.87379	False	-0.32360
296592	0.63500	0.67000	11.61950	11.24035	False	-1.13684
298491	0.83000	0.84000	9.18334	9.02217	False	0.68875
298492	0.92000	0.94000	7.37971	6.78091	False	-0.13439
298493	0.81000	0.81000	9.48841	9.48841	False	1.14436
298495	0.79000	0.81000	9.77432	9.48841	False	-0.01497
298497	0.69000	0.77000	11.01660	10.04461	False	0.56355
298792	0.84000	0.88000	9.02217	8.30005	False	-1.19028
298794	0.77000	0.82000	10.04461	9.33854	False	-0.81447
298796	0.77000	0.84000	10.04461	9.02217	False	0.33411
298798	0.76000	0.81000	10.17479	9.48841	False	-0.83072
298799	0.70000	0.77000	10.90240	10.04461	False	0.10047
298800	0.77000	0.83000	10.04461	9.18334	False	-0.25102
298806	0.83000	0.86000	9.18334	8.67872	False	-0.55812
298808	0.62500	0.73750	11.72544	10.45737	False	1.93940
299007	0.76000	0.81000	10.17479	9.48841	False	-0.83072
299010	0.77000	0.77000	10.04461	10.04461	False	0.90823
299014	0.80000	0.82000	9.63352	9.33854	False	0.01186
299017	0.81000	0.82000	9.48841	9.33854	False	0.60024

**Table J-8. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 3**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
202961	0.89000	0.88000	8.09389	8.30005	False	-1.05673
203539	0.74000	0.76000	10.42662	10.17479	False	-0.75106
203638	0.76500	0.74500	10.11008	10.36465	False	1.64447
206980	0.77000	0.76000	10.04461	10.17479	False	0.60031
206993	0.74000	0.78000	10.42662	9.91123	False	1.30145
207001	0.82000	0.85000	9.33854	8.85427	False	2.31346
207005	0.86000	0.85000	8.67872	8.85427	False	-0.62100
218333	0.79000	0.79000	9.77432	9.77432	False	-0.72505
227103	0.65000	0.69000	11.45872	11.01660	False	-0.45897

continued



<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
227291	0.79000	0.80000	9.77432	9.63352	False	-0.86372
227295	0.72000	0.72000	10.66863	10.66863	False	0.30592
260562	0.85000	0.85000	8.85427	8.85427	False	-0.89957
263115	0.37000	0.47000	14.32741	13.30108	False	0.78359
264568	0.80000	0.80000	9.63352	9.63352	False	-0.88737
282454	0.62000	0.67000	11.77808	11.24035	False	-0.08256
287146	0.58000	0.60000	12.19243	11.98661	False	0.45976
287674	0.80000	0.80000	9.63352	9.63352	False	-0.88737
297399	0.47000	0.51500	13.30108	12.84957	False	-0.17557

**Table J-9. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 4**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
221974	0.91000	0.90000	7.63698	7.87379	False	-0.09912
227315	0.63500	0.63250	11.61950	11.64607	False	-0.32880
227395	0.59000	0.57000	12.08982	12.29450	False	0.77765
227589	0.46000	0.51000	13.40173	12.89972	False	-0.41893
228829	0.81000	0.84000	9.48841	9.02217	False	0.30957
247455	0.88000	0.91000	8.30005	7.63698	False	1.69090
247575	0.87000	0.84000	8.49444	9.02217	False	1.72930
247577	0.57000	0.59000	12.29450	12.08982	False	-1.46045
247587	0.73000	0.76000	10.54875	10.17479	False	-0.45745
247592	0.68000	0.73000	11.12920	10.54875	False	0.55832
247598	0.91000	0.91000	7.63698	7.63698	False	-1.42192
247658	0.73000	0.75000	10.54875	10.30204	False	-1.16826
250328	0.84000	0.84000	9.02217	9.02217	False	-1.09335
250533	0.67000	0.68000	11.24035	11.12920	False	-1.18800
258190	0.52000	0.51000	12.79939	12.89972	False	0.36311
258221	0.58000	0.62000	12.19243	11.77808	False	-0.62173
272121	0.71000	0.76000	10.78646	10.17479	False	0.81398
279767	0.42000	0.51000	13.80757	12.89972	False	1.75175
280093	0.82000	0.81000	9.33854	9.48841	False	-0.18112
287484	0.69000	0.67250	11.01660	11.21269	False	0.47509
298081	0.45000	0.45000	13.50265	13.50265	False	-0.03054

**Table J-10. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 5**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
204866	0.62000	0.68000	11.77808	11.12920	False	0.25284
206922	0.78000	0.81000	9.91123	9.48841	False	-0.82598
217299	0.75000	0.77000	10.30204	10.04461	False	-1.06121
248869	0.70000	0.65000	10.90240	11.45872	False	1.91570
248875	0.83000	0.88000	9.18334	8.30005	False	0.81049
248925	0.72000	0.72000	10.66863	10.66863	False	-0.14134

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
248996	0.68000	0.71000	11.12920	10.78646	False	-0.97538
249105	0.88000	0.90000	8.30005	7.87379	False	-1.01257
260695	0.75000	0.79000	10.30204	9.77432	False	-0.38419
261198	0.84000	0.84000	9.02217	9.02217	False	0.06255
262135	0.67000	0.68000	11.24035	11.12920	False	-0.62888
262222	0.40000	0.46000	14.01339	13.40173	False	0.39010
272786	0.62000	0.61000	11.77808	11.88272	False	0.11366
272911	0.77000	0.81000	10.04461	9.48841	False	-0.30931
280511	0.50500	0.50500	12.94987	12.94987	False	-0.42384
280666	0.93000	0.93000	7.09684	7.09684	False	0.30097
280747	0.62000	0.74000	11.77808	10.42662	False	2.88728
293830	0.42000	0.42000	13.80757	13.80757	False	-0.53006
294905	0.58250	0.54750	12.16683	12.52261	False	1.00718
298023	0.57000	0.61000	12.29450	11.88272	False	-0.57221
298034	0.48000	0.51000	13.20061	12.89972	False	-0.87580

**Table J-11. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 6**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
223113	0.90000	0.90000	7.87379	7.87379	False	-0.31180
226187	0.86000	0.86000	8.67872	8.67872	False	-0.44769
227709	0.86000	0.85000	8.67872	8.85427	False	-0.30460
227737	0.68000	0.69000	11.12920	11.01660	False	-0.38835
229034	0.83000	0.82000	9.18334	9.33854	False	-0.30487
229862	0.90000	0.89000	7.87379	8.09389	False	-0.25334
229927	0.87000	0.87000	8.49444	8.49444	False	-0.41658
264305	0.73000	0.73000	10.54875	10.54875	False	-0.72635
266115	0.70000	0.62000	10.90240	11.77808	True	3.01210
266128	0.75000	0.75000	10.30204	10.30204	False	-0.72176
272358	0.74000	0.75000	10.42662	10.30204	False	-0.21944
272359	0.76000	0.75000	10.17479	10.30204	False	-0.25490
281665	0.81000	0.81000	9.48841	9.48841	False	-0.58439
282272	0.69000	0.70000	11.01660	10.90240	False	-0.36264
282280	0.71500	0.71750	10.72779	10.69828	False	-0.66964
282332	0.43000	0.51000	13.70550	12.89972	False	2.08870
288383	0.82000	0.85000	9.33854	8.85427	False	1.47535
288799	0.74000	0.71000	10.42662	10.78646	False	0.76474
290253	0.49250	0.48750	13.07520	13.12535	False	-0.08913
299673	0.73000	0.73000	10.54875	10.54875	False	-0.72635
299677	0.82000	0.82000	9.33854	9.33854	False	-0.55909

**Table J-12. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 7**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
205464	0.65000	0.64000	11.45872	11.56616	False	-0.86036
208377	0.89000	0.89000	8.09389	8.09389	False	0.25371
235440	0.77000	0.75000	10.04461	10.30204	False	-0.42834
235468	0.72000	0.72000	10.66863	10.66863	False	-0.50762
239649	0.51000	0.52000	12.89972	12.79939	False	-0.59857
249164	0.56000	0.56000	12.39612	12.39612	False	-1.01842
250263	0.70000	0.67000	10.90240	11.24035	False	0.28173
250345	0.66000	0.63000	11.35015	11.67259	False	0.32620
250531	0.66000	0.63000	11.35015	11.67259	False	0.32620
250848	0.62000	0.69000	11.77808	11.01660	True	3.48070
261072	0.43000	0.46000	13.70550	13.40173	False	0.31625
261076	0.60000	0.58000	11.98661	12.19243	False	-0.14667
261644	0.68000	0.64000	11.12920	11.56616	False	0.91003
272149	0.52000	0.51000	12.79939	12.89972	False	-0.50422
272153	0.74000	0.72000	10.42662	10.66863	False	-0.40275
272159	0.64500	0.62000	11.51258	11.77808	False	0.05149
272872	0.68000	0.67000	11.12920	11.24035	False	-0.93684
281477	0.72000	0.71000	10.66863	10.78646	False	-1.03514
282222	0.66000	0.69000	11.35015	11.01660	False	1.18156
282289	0.67500	0.68000	11.18495	11.12920	False	-0.34430
290543	0.86000	0.84000	8.67872	9.02217	False	-0.34464

**Table J-13. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 8**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
219579	0.90000	0.90000	7.87379	7.87379	False	-0.31985
219677	0.66000	0.65000	11.35015	11.45872	False	-0.16493
226933	0.56000	0.59000	12.39612	12.08982	False	-0.73906
227756	0.84000	0.81000	9.02217	9.48841	False	0.75447
253742	0.63000	0.62000	11.67259	11.77808	False	-0.18183
253798	0.65250	0.61500	11.43168	11.83050	False	0.52265
253802	0.63000	0.72000	11.67259	10.66863	False	0.89800
263846	0.68000	0.74000	11.12920	10.42662	False	0.16542
264730	0.66000	0.68000	11.35015	11.12920	False	-0.94829
264777	0.80000	0.83000	9.63352	9.18334	False	-0.47903
264785	0.41000	0.37000	13.91018	14.32741	False	0.49286
273662	0.84000	0.86000	9.02217	8.67872	False	-0.75091
273670	0.85000	0.86000	8.85427	8.67872	False	-0.76628
284198	0.82000	0.78000	9.33854	9.91123	False	0.99813
284914	0.83000	0.87000	9.18334	8.49444	False	0.07514
285104	0.51000	0.55000	12.89972	12.49735	False	-0.49573
287544	0.65750	0.64750	11.37740	11.48568	False	-0.16643
287597	0.78000	0.79000	9.91123	9.77432	False	-0.70581
298044	0.60000	0.78000	11.98661	9.91123	True	3.45445

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
298048	0.40000	0.43000	14.01339	13.70550	False	-0.68728
299550	0.68000	0.70000	11.12920	10.90240	False	-0.95567

**Table J-14. 2013 MCAS: Delta Analysis Results –  
Mathematics Grade 10**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
253197	0.53000	0.53000	12.69892	12.69892	False	-0.70896
254560	0.49000	0.60000	13.10028	11.98661	False	3.26763
261532	0.69000	0.68000	11.01660	11.12920	False	-0.21500
273329	0.78000	0.78000	9.91123	9.91123	False	-0.72984
278554	0.72000	0.76000	10.66863	10.17479	False	0.49756
279246	0.68000	0.74000	11.12920	10.42662	False	1.43314
279302	0.71000	0.74000	10.78646	10.42662	False	-0.10613
281587	0.64000	0.68000	11.56616	11.12920	False	0.23494
281729	0.77000	0.77000	10.04461	10.04461	False	-0.72884
282172	0.58000	0.58000	12.19243	12.19243	False	-0.71276
288045	0.72750	0.71750	10.57892	10.69828	False	-0.18792
288069	0.85000	0.86000	8.85427	8.67872	False	-0.92074
288090	0.74000	0.74250	10.42662	10.39571	False	-0.86502
288121	0.68000	0.70000	11.12920	10.90240	False	-0.70717
292914	0.71000	0.74000	10.78646	10.42662	False	-0.10613
293168	0.66000	0.63000	11.35015	11.67259	False	0.73144
293986	0.82000	0.86000	9.33854	8.67872	False	1.25416
294006	0.69000	0.69000	11.01660	11.01660	False	-0.72156
294020	0.67000	0.68000	11.24035	11.12920	False	-1.21987
294025	0.72000	0.78000	10.66863	9.91123	False	1.68320
294026	0.51000	0.47000	12.89972	13.30108	False	1.09805
294030	0.50000	0.50000	13.00000	13.00000	False	-0.70671
294139	0.69000	0.72000	11.01660	10.66863	False	-0.16129
294177	0.45000	0.47000	13.50265	13.30108	False	-0.83850
294180	0.49000	0.49000	13.10028	13.10028	False	-0.70596
294293	0.71000	0.74000	10.78646	10.42662	False	-0.10613
294298	0.71000	0.70000	10.78646	10.90240	False	-0.20174
294312	0.76000	0.73000	10.17479	10.54875	False	0.95440
294335	0.53000	0.52750	12.69892	12.72405	False	-0.59591
294492	0.86000	0.87000	8.67872	8.49444	False	-0.88009
294505	0.80000	0.82000	9.63352	9.33854	False	-0.38931
294505	0.82000	0.82000	9.33854	9.33854	False	-0.73413
294626	0.86000	0.82000	8.67872	9.33854	False	2.22914
294637	0.79000	0.79000	9.77432	9.77432	False	-0.73087
294645	0.80000	0.77000	9.63352	10.04461	False	1.11741
294645	0.80000	0.77000	9.63352	10.04461	False	1.11741
294667	0.58000	0.55000	12.19243	12.49735	False	0.65898
294667	0.55000	0.55000	12.49735	12.49735	False	-0.71047
294682	0.54000	0.61000	12.59827	11.88272	False	1.48042
296368	0.56250	0.59000	12.37076	12.08982	False	-0.47296

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
296369	0.76750	0.76750	10.07745	10.07745	False	-0.72860
299933	0.73000	0.76000	10.54875	10.17479	False	-0.04085
299936	0.50000	0.48000	13.00000	13.20061	False	0.19576
299946	0.51000	0.53000	12.89972	12.69892	False	-0.83741
299949	0.34000	0.35000	14.64985	14.54128	False	-1.18276

**Table J-15. 2013 MCAS: Delta Analysis Results –  
STE Grade 5**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
245106	0.49000	0.49000	13.10028	13.10028	False	-0.92473
264841	0.71000	0.70000	10.78646	10.90240	False	-0.68807
264845	0.48500	0.47750	13.15043	13.22572	False	-0.46646
273693	0.87000	0.88000	8.49444	8.30005	False	-0.20490
273700	0.75000	0.74000	10.30204	10.42662	False	-0.73164
273716	0.79000	0.77000	9.77432	10.04461	False	0.03282
273760	0.58000	0.63000	12.19243	11.67259	False	1.00821
273776	0.71000	0.75000	10.78646	10.30204	False	1.07306
281843	0.88000	0.88000	8.30005	8.30005	False	-1.32461
281864	0.63000	0.68000	11.67259	11.12920	False	1.25042
288141	0.79000	0.80000	9.77432	9.63352	False	-0.77515
288208	0.64000	0.66000	11.56616	11.35015	False	-0.67865
288212	0.69000	0.72000	11.01660	10.66863	False	0.21511
289407	0.75000	0.70000	10.30204	10.90240	False	2.10234
289473	0.89000	0.86000	8.09389	8.67872	False	1.57669
291051	0.78000	0.81000	9.91123	9.48841	False	0.87779
291183	0.67000	0.64000	11.24035	11.56616	False	0.65112
291387	0.71000	0.70000	10.78646	10.90240	False	-0.68807
291485	0.85000	0.85000	8.85427	8.85427	False	-1.43334
291624	0.59750	0.58000	12.01247	12.19243	False	-0.06625
299576	0.60000	0.62000	11.98661	11.77808	False	-0.80570

**Table J-16. 2013 MCAS: Delta Analysis Results –  
STE Grade 8**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
265230	0.52000	0.44000	12.79939	13.60388	False	1.95745
273932	0.65000	0.63000	11.45872	11.67259	False	-0.10924
273955	0.88000	0.90000	8.30005	7.87379	False	-1.24552
273956	0.52000	0.52000	12.79939	12.79939	False	-0.82038
273989	0.89000	0.92000	8.09389	7.37971	False	0.00473
282005	0.61000	0.57000	11.88272	12.29450	False	0.59698
282021	0.69000	0.70000	11.01660	10.90240	False	-1.24762
282039	0.75000	0.76000	10.30204	10.17479	False	-1.09537
282043	0.43250	0.46250	13.68005	13.37655	False	1.09344
282047	0.72000	0.72000	10.66863	10.66863	False	-0.69228

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
282054	0.41000	0.35000	13.91018	14.54128	False	0.53431
282065	0.56000	0.55000	12.39612	12.49735	False	-1.15086
288302	0.44000	0.47000	13.60388	13.30108	False	1.04877
288314	0.79000	0.77000	9.77432	10.04461	False	1.07186
288320	0.66000	0.72000	11.35015	10.66863	False	1.61740
288327	0.37750	0.36250	14.24821	14.40714	False	-0.78598
289584	0.40000	0.40000	14.01339	14.01339	False	-0.16154
291691	0.59000	0.57000	12.08982	12.29450	False	-0.49519
291720	0.57000	0.61000	12.29450	11.88272	False	0.85377
291994	0.52000	0.48000	12.79939	13.20061	False	0.04959
294058	0.47000	0.46000	13.30108	13.40173	False	-1.02432

**Table J-17. 2013 MCAS: Delta Analysis Results –  
High School Biology**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
222094	0.71000	0.79000	10.78646	9.77432	False	1.15746
234812	0.73000	0.74000	10.54875	10.42662	False	-0.63248
235185	0.64000	0.77000	11.56616	10.04461	False	2.64789
242937	0.62000	0.73000	11.77808	10.54875	False	1.61110
243374	0.77000	0.82000	10.04461	9.33854	False	0.33733
243456	0.90000	0.93000	7.87379	7.09684	False	1.17332
267507	0.68000	0.62000	11.12920	11.77808	False	2.10888
273463	0.66000	0.68000	11.35015	11.12920	False	-0.74228
273469	0.75000	0.77000	10.30204	10.04461	False	-1.15349
273525	0.67000	0.68000	11.24035	11.12920	False	-0.40496
275472	0.67000	0.71000	11.24035	10.78646	False	-0.83674
275480	0.61000	0.66000	11.88272	11.35015	False	-0.75045
275511	0.82000	0.83000	9.33854	9.18334	False	-1.07695
276503	0.68000	0.66000	11.12920	11.35015	False	0.67619
276736	0.53000	0.65000	12.69892	11.45872	False	1.39355
279797	0.76000	0.79000	10.17479	9.77432	False	-0.72170
281160	0.59000	0.67000	12.08982	11.24035	False	0.25339
281170	0.74000	0.78000	10.42662	9.91123	False	-0.40642
283037	0.55000	0.57000	12.49735	12.29450	False	-0.36533
289132	0.47500	0.51500	13.25083	12.84957	False	-0.82180
289226	0.59000	0.64000	12.08982	11.56616	False	-0.83743
290002	0.64000	0.65000	11.56616	11.45872	False	-0.30273
290004	0.62000	0.59000	11.77808	12.08982	False	1.15914
290005	0.63000	0.63000	11.67259	11.67259	False	0.08634
290007	0.42000	0.55000	13.80757	12.49735	False	1.32221
290009	0.48500	0.53000	13.15043	12.69892	False	-1.01773
290933	0.50000	0.58000	13.00000	12.19243	False	-0.13790
290967	0.52000	0.56000	12.79939	12.39612	False	-0.95300
290984	0.80000	0.78000	9.63352	9.91123	False	0.45377
293193	0.68000	0.71000	11.12920	10.78646	False	-1.17819
294798	0.53500	0.60750	12.64862	11.90876	False	-0.26771

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
294825	0.91000	0.93000	7.63698	7.09684	False	0.44579
295292	0.73000	0.76000	10.54875	10.17479	False	-0.91361
295297	0.79000	0.79000	9.77432	9.77432	False	-0.43717
295308	0.59500	0.66000	12.03830	11.35015	False	-0.27251
296645	0.83000	0.84000	9.18334	9.02217	False	-1.13974
296657	0.92000	0.91000	7.37971	7.63698	False	-0.23625
296664	0.82000	0.82000	9.33854	9.33854	False	-0.55735
296683	0.89000	0.89000	8.09389	8.09389	False	-0.90060
296714	0.66000	0.65000	11.35015	11.45872	False	0.36091
296766	0.85000	0.80000	8.85427	9.63352	False	1.91798
296790	0.86000	0.87000	8.67872	8.49444	False	-1.03289
296800	0.83000	0.79000	9.18334	9.77432	False	1.37841
296805	0.29250	0.33250	15.18438	14.73208	False	-0.45944
299072	0.77000	0.76000	10.04461	10.17479	False	0.07320

**Table J-18. 2013 MCAS: Delta Analysis Results –  
High School Chemistry**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
216954	0.49000	0.72000	13.10028	10.66863	False	2.30111
226997	0.56000	0.70000	12.39612	10.90240	False	0.03782
229548	0.71000	0.82000	10.78646	9.33854	False	-0.38276
229556	0.84000	0.94000	9.02217	6.78091	False	1.06717
244815	0.71000	0.73000	10.78646	10.54875	False	0.47560
244829	0.45000	0.62000	13.50265	11.77808	False	0.77855
252565	0.79000	0.92000	9.77432	7.37971	False	1.56257
252651	0.74000	0.89000	10.42662	8.09389	False	1.55080
252675	0.79000	0.87000	9.77432	8.49444	False	-0.96265
258906	0.48000	0.63000	13.20061	11.67259	False	0.27387
260794	0.38000	0.43500	14.22192	13.65463	False	-0.94719
260916	0.58000	0.62000	12.19243	11.77808	False	-0.20127
260920	0.56000	0.61000	12.39612	11.88272	False	-0.46575
261188	0.69000	0.74000	11.01660	10.42662	False	-0.36770
261464	0.57000	0.61000	12.29450	11.88272	False	-0.21554
261469	0.58000	0.68000	12.19243	11.12920	False	-0.97751
264320	0.57000	0.59000	12.29450	12.08982	False	0.25360
264326	0.74000	0.80000	10.42662	9.63352	False	-0.71172
272994	0.39000	0.47250	14.11728	13.27595	False	-1.10131
273012	0.67000	0.76000	11.24035	10.17479	False	-1.15961
273070	0.41250	0.62000	13.88447	11.77808	False	1.71868
273186	0.82000	0.83000	9.33854	9.18334	False	0.94750
273221	0.76000	0.84000	10.17479	9.02217	False	-1.17211
274045	0.55750	0.63000	12.42146	11.67259	False	-1.00417
274049	0.50000	0.64000	13.00000	11.56616	False	0.02101
274067	0.61000	0.83000	11.88272	9.18334	False	2.66800
275910	0.67000	0.65000	11.24035	11.45872	False	1.41945
280897	0.82000	0.87000	9.33854	8.49444	False	-0.61310

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
281214	0.52000	0.59000	12.79939	12.08982	False	-0.98950
281218	0.77000	0.86000	10.04461	8.67872	False	-0.71461
281263	0.61000	0.73000	11.88272	10.54875	False	-0.42512
281282	0.70000	0.70000	10.90240	10.90240	False	0.99128
281317	0.80000	0.82000	9.63352	9.33854	False	0.57281
281323	0.80000	0.87000	9.63352	8.49444	False	-1.30932
281919	0.63000	0.68000	11.67259	11.12920	False	-0.39126
287272	0.77000	0.77000	10.04461	10.04461	False	1.16011
287275	0.87000	0.92000	8.49444	7.37971	False	-1.05999
287563	0.86000	0.89000	8.67872	8.09389	False	0.10411
287594	0.58000	0.70000	12.19243	10.90240	False	-0.46371
288269	0.50000	0.56000	13.00000	12.39612	False	-0.78957
294699	0.66000	0.72000	11.35015	10.66863	False	-0.64071
294713	0.49000	0.49000	13.10028	13.10028	False	0.55868
294716	0.39750	0.42750	14.03929	13.73097	False	-0.32460
298323	0.88000	0.92000	8.30005	7.37971	False	-0.58139
298325	0.79000	0.84000	9.77432	9.02217	False	-0.49055

**Table J-19. 2013 MCAS: Delta Analysis Results –  
High School Introductory Physics**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
208336	0.61000	0.69000	11.88272	11.01660	False	1.35957
208382	0.72000	0.70000	10.66863	10.90240	False	0.31424
208387	0.63000	0.66000	11.67259	11.35015	False	-0.85335
235239	0.61000	0.70000	11.88272	10.90240	False	1.83686
246873	0.59000	0.59000	12.08982	12.08982	False	-0.26136
246878	0.53000	0.56000	12.69892	12.39612	False	-1.22531
272734	0.58000	0.65000	12.19243	11.45872	False	0.71868
272796	0.74000	0.71000	10.42662	10.78646	False	0.77281
280765	0.53000	0.59000	12.69892	12.08982	False	0.05484
280801	0.73000	0.77000	10.54875	10.04461	False	0.22344
280841	0.68000	0.71000	11.12920	10.78646	False	-0.61502
280854	0.61000	0.65000	11.88272	11.45872	False	-0.48821
280936	0.68000	0.70000	11.12920	10.90240	False	-1.09956
280938	0.67000	0.69000	11.24035	11.01660	False	-1.14373
280946	0.39000	0.42000	14.11728	13.80757	False	-0.98309
280977	0.37250	0.43000	14.30096	13.70550	False	-0.45464
287041	0.69000	0.67000	11.01660	11.24035	False	0.37066
287056	0.62000	0.64000	11.77808	11.56616	False	-1.23507
287066	0.47250	0.48500	13.27595	13.15043	False	-0.45092
287202	0.60000	0.61000	11.98661	11.88272	False	-0.72469
287205	0.62000	0.62000	11.77808	11.77808	False	-0.34940
287220	0.78000	0.71000	9.91123	10.78646	False	2.78126
287222	0.59000	0.62000	12.08982	11.77808	False	-1.01589
287230	0.62000	0.57000	11.77808	12.29450	False	1.80894
287322	0.59000	0.59000	12.08982	12.08982	False	-0.26136

continued



<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
287323	0.84000	0.81000	9.02217	9.48841	False	0.82084
287326	0.80000	0.79000	9.63352	9.77432	False	-0.36665
287330	0.59000	0.59250	12.08982	12.06408	False	-0.36895
287350	0.77000	0.83000	10.04461	9.18334	False	1.85845
287357	0.63000	0.70000	11.67259	10.90240	False	1.01797
287358	0.39750	0.42000	14.03929	13.80757	False	-0.67920
287387	0.82000	0.83000	9.33854	9.18334	False	-0.89308
287397	0.73000	0.75000	10.54875	10.30204	False	-0.85245
288366	0.81000	0.80000	9.48841	9.63352	False	-0.38966
288396	0.86000	0.85000	8.67872	8.85427	False	-0.49111
293882	0.79000	0.76000	9.77432	10.17479	False	0.75839
293893	0.67000	0.69000	11.24035	11.01660	False	-1.14373
293935	0.60000	0.66000	11.98661	11.35015	False	0.37039
293952	0.74000	0.78000	10.42662	9.91123	False	0.30498
295851	0.78000	0.78000	9.91123	9.91123	False	-0.87667
295860	0.78000	0.82000	9.91123	9.33854	False	0.69001
295871	0.30250	0.34750	15.06889	14.56832	False	-1.06808
295881	0.74000	0.79000	10.42662	9.77432	False	0.87719
295924	0.67000	0.62000	11.24035	11.77808	False	1.74610
297421	0.63000	0.67000	11.67259	11.24035	False	-0.39445

**Table J-20. 2013 MCAS: Delta Analysis Results –  
High School Technology/Engineering**

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
215942	0.84000	0.74000	9.02217	10.42662	False	1.85027
230788	0.86000	0.86000	8.67872	8.67872	False	0.13902
230878	0.56000	0.52000	12.39612	12.79939	False	-0.24730
240039	0.55000	0.53000	12.49735	12.69892	False	-0.87580
251770	0.64000	0.57000	11.56616	12.29450	False	0.52828
260817	0.40750	0.34750	13.93592	14.56832	False	1.05577
264191	0.80000	0.80000	9.63352	9.63352	False	-0.20087
265035	0.60000	0.61000	11.98661	11.88272	False	-0.69625
265055	0.68000	0.64000	11.12920	11.56616	False	-0.58728
265122	0.84000	0.75000	9.02217	10.30204	False	1.43982
265155	0.81000	0.73000	9.48841	10.54875	False	0.88247
267206	0.57000	0.55000	12.29450	12.49735	False	-0.94378
268441	0.40000	0.39250	14.01339	14.09124	False	-0.74373
271567	0.48000	0.50000	13.20061	13.00000	False	-0.80973
273093	0.58000	0.68000	12.19243	11.12920	False	2.39123
273138	0.55000	0.56000	12.49735	12.39612	False	-0.88682
273153	0.71000	0.68000	10.78646	11.12920	False	-1.01971
274572	0.66000	0.74000	11.35015	10.42662	False	2.23082
274577	0.71000	0.69000	10.78646	11.01660	False	-1.36954
274622	0.35000	0.34000	14.54128	14.64985	False	-0.45459
281107	0.72000	0.72000	10.66863	10.66863	False	-0.56935
281364	0.69000	0.69000	11.01660	11.01660	False	-0.69322

continued

<i>Item Number</i>	<i>P</i>		<i>Delta</i>		<i>Discard</i>	<i>Std</i>
	<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
281428	0.52000	0.49000	12.79939	13.10028	False	-0.44104
283362	0.47000	0.49000	13.30108	13.10028	False	-0.84487
283383	0.91000	0.89000	7.63698	8.09389	False	-0.99552
283405	0.46000	0.49000	13.40173	13.10028	False	-0.54907
283453	0.77000	0.75000	10.04461	10.30204	False	-1.19537
287792	0.77000	0.71000	10.04461	10.78646	False	0.03115
287803	0.60000	0.57000	11.98661	12.29450	False	-0.70730
287810	0.84000	0.78000	9.02217	9.91123	False	0.15219
287844	0.78000	0.78000	9.91123	9.91123	False	-0.29973
287845	0.60000	0.66000	11.98661	11.35015	False	1.05845
289903	0.77000	0.80000	10.04461	9.63352	False	1.00724
289914	0.58000	0.63000	12.19243	11.67259	False	0.60093
289918	0.79000	0.73000	9.77432	10.54875	False	0.04228
289938	0.75000	0.67000	10.30204	11.24035	False	0.77006
292770	0.70000	0.70000	10.90240	10.90240	False	-0.65257
293179	0.89000	0.84000	8.09389	9.02217	False	-0.04904
294384	0.84000	0.79000	9.02217	9.77432	False	-0.29890
294424	0.54250	0.65750	12.57306	11.37740	False	2.69209
296433	0.37000	0.36000	14.32741	14.43384	False	-0.53780
296469	0.65000	0.57000	11.45872	12.29450	False	0.84404
296472	0.32500	0.38250	14.81505	14.19569	False	-0.00478
297429	0.83000	0.83000	9.18334	9.18334	False	-0.04061
299110	0.61000	0.61000	11.88272	11.88272	False	-1.00155

**Table J-21. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 3**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
286605B	2	1.29902	1.29412	0.65375	0.61329	-0.00750	False
286604A	2	1.15122	1.11707	0.72190	0.59898	-0.04730	False
257044	4	1.68780	1.70732	0.89667	0.90867	0.02176	False

**Table J-22. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 4**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
255620	4	1.57353	1.56863	0.97227	0.97768	-0.00504	False
256212	4	1.94146	1.83902	0.84973	0.94891	-0.12055	False
286474	4	2.45411	2.29469	0.93298	0.86749	-0.17087	False

**Table J-23. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 5**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
205153	4	1.83333	2.02451	0.97337	0.91748	0.19641	False
286810	4	2.05288	2.00962	1.05046	1.01672	-0.04119	False
291595	4	1.82759	1.96552	0.72769	0.92479	0.18955	False

**Table J-24. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 6**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
276531	4	1.86275	1.95098	0.89376	0.95595	0.09872	False
271412	4	1.97585	2.11594	1.01177	1.07761	0.13847	False
257689	4	1.88293	1.95610	1.00779	0.99657	0.07261	False

**Table J-25. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 7**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
225055	4	2.22549	2.15196	1.13091	1.03697	-0.06502	False
234121	4	2.00957	2.13876	0.85480	0.88518	0.15113	False
234009	4	2.47549	2.32843	1.05718	0.97505	-0.13911	False

**Table J-26. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 8**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
283698	4	2.53202	2.51724	0.97122	0.97668	-0.01522	False
227783	4	2.54146	2.37073	1.20639	1.20013	-0.14152	False
207193	4	2.55924	2.54028	1.05110	1.02448	-0.01804	False

**Table J-27. 2013 MCAS: Rescore Analysis Results –  
ELA Grade 10**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
296592	4	2.53659	2.05366	0.94188	0.89226	-0.51273	False
293557	4	2.34314	2.34314	0.93107	0.94681	0.00000	False
287089	4	2.21182	2.31034	0.99973	0.97860	0.09855	False
298808	4	2.37745	2.39216	0.94148	1.02824	0.01562	False

**Table J-28. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 3**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
203638	4	1.44335	1.44828	0.76462	0.73863	0.00644	False
297399	4	0.91667	0.84314	0.70740	0.71913	-0.10394	False

**Table J-29. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 4**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
227315	4	2.39303	2.39303	1.16179	1.19990	0.00000	False
287484	4	2.71707	2.72195	1.10167	1.10956	0.00443	False

**Table J-30. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 5**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
280511	4	2.08273	2.02433	1.25833	1.29517	-0.04641	False
294905	4	2.23671	2.29952	1.28203	1.25150	0.04899	False

**Table J-31. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 6**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
290253	4	2.06373	2.01961	1.32830	1.37522	-0.03321	False
282280	4	2.86893	2.84951	1.14649	1.16102	-0.01694	False

**Table J-32. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 7**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
282289	4	2.75490	2.63235	1.04043	1.09055	-0.11779	False
272159	4	2.59512	2.53171	1.45082	1.45360	-0.04371	False

**Table J-33. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 8**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
253798	4	2.73350	2.75306	1.41936	1.39858	0.01378	False
287544	4	2.70732	2.66829	1.20398	1.21813	-0.03241	False

**Table J-34. 2013 MCAS: Rescore Analysis Results –  
Mathematics Grade 10**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
288090	4	2.97559	2.97559	1.14210	1.14637	0.00000	False
294030	4	2.06829	2.02927	1.41670	1.41460	-0.02755	False
296368	4	2.27941	2.28431	1.20734	1.20823	0.00406	False
296369	4	3.09314	3.12745	1.18717	1.20248	0.02890	False
288045	4	2.91707	2.80488	1.21351	1.25038	-0.09245	False
294335	4	2.14706	2.06373	0.96958	0.90839	-0.08595	False

**Table J-35. 2013 MCAS: Rescore Analysis Results –  
STE Grade 5**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
264845	4	1.73301	1.77184	1.35323	1.34955	0.02870	False
291624	4	2.50725	2.43961	1.26747	1.31483	-0.05336	False

**Table J-36. 2013 MCAS: Rescore Analysis Results –  
STE Grade 8**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
288327	4	1.48293	1.42927	1.16003	1.17059	-0.04626	False
282043	4	1.89268	2.08780	1.13111	1.14567	0.17250	False

**Table J-37. 2013 MCAS: Rescore Analysis Results –  
High School Biology**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
290009	4	1.82927	1.80976	1.05363	1.12665	-0.01852	False
296805	4	1.16585	1.09268	0.99966	0.93620	-0.07320	False
289132	4	1.85294	2.11275	1.01485	1.15273	0.25600	False
294798	4	2.13171	2.25854	1.30345	1.34018	0.09730	False
295308	4	2.39806	2.46602	0.99966	1.09247	0.06798	False

**Table J-38. 2013 MCAS: Rescore Analysis Results –  
High School Chemistry**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
273070	4	1.65196	1.58824	1.48312	1.51442	-0.04297	False
272994	4	1.30846	1.32338	1.04880	1.07020	0.01423	False
260794	4	1.15423	1.20398	1.14275	1.13491	0.04354	False
274045	4	1.70874	1.71845	1.22440	1.17817	0.00793	False
294716	4	1.36765	1.29902	1.12825	1.13979	-0.06083	False

**Table J-39. 2013 MCAS: Rescore Analysis Results –  
High School Introductory Physics**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
287066	4	2.02020	1.96465	1.30362	1.34720	-0.04262	False
280977	4	1.29756	1.24878	1.24816	1.23133	-0.03908	False
287330	4	2.33659	2.28780	1.28086	1.25435	-0.03808	False
295871	4	1.16832	1.23267	0.91347	0.97081	0.07045	False
287358	4	1.62069	1.71921	1.22029	1.26243	0.08074	False

**Table J-40. 2013 MCAS: Rescore Analysis Results –  
High School Technology/Engineering**

<i>Item Number</i>	<i>Max</i>	<i>Mean</i>		<i>StDev</i>		<i>Effect Size</i>	<i>Discard</i>
		<i>Old</i>	<i>New</i>	<i>Old</i>	<i>New</i>		
294424	4	2.07843	2.40196	1.24913	1.19737	0.25900	False
274622	4	1.33168	1.21782	1.01427	0.93153	-0.11226	False
260817	4	1.56863	1.53922	1.14479	1.15047	-0.02569	False
296472	4	1.29557	1.36453	1.00066	1.04603	0.06892	False
268441	4	1.42927	1.39024	1.25679	1.23824	-0.03105	False