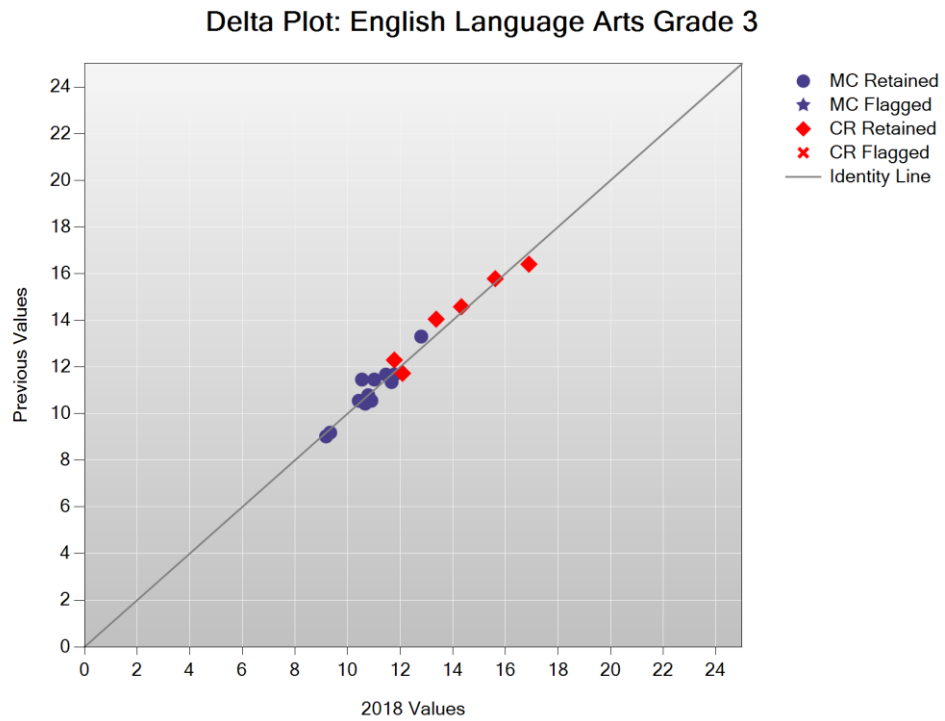


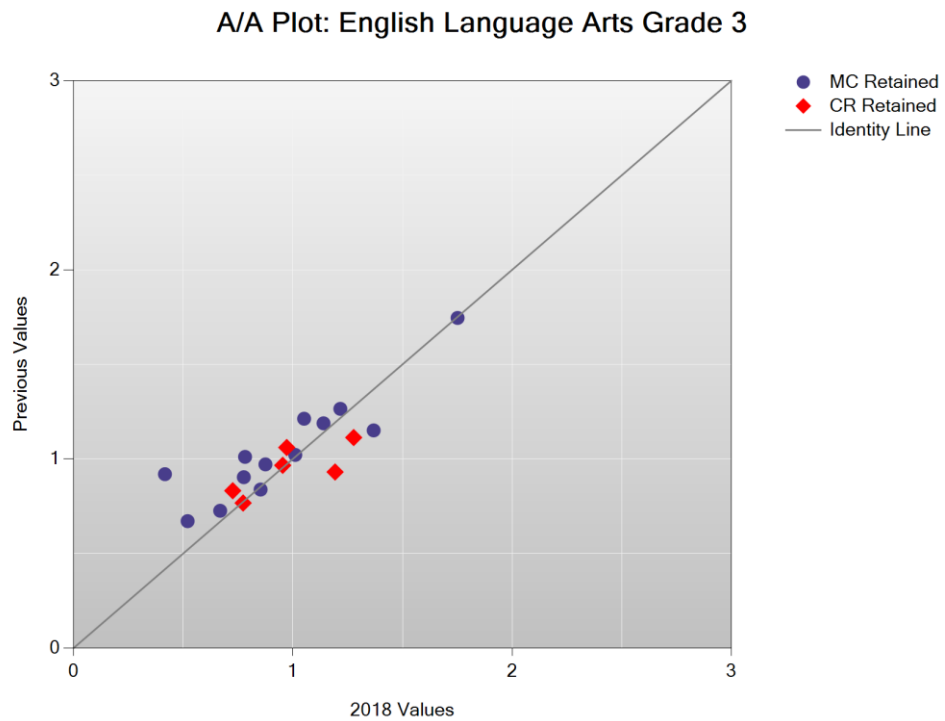
APPENDIX M

Plots AND IRT PARAMETERS

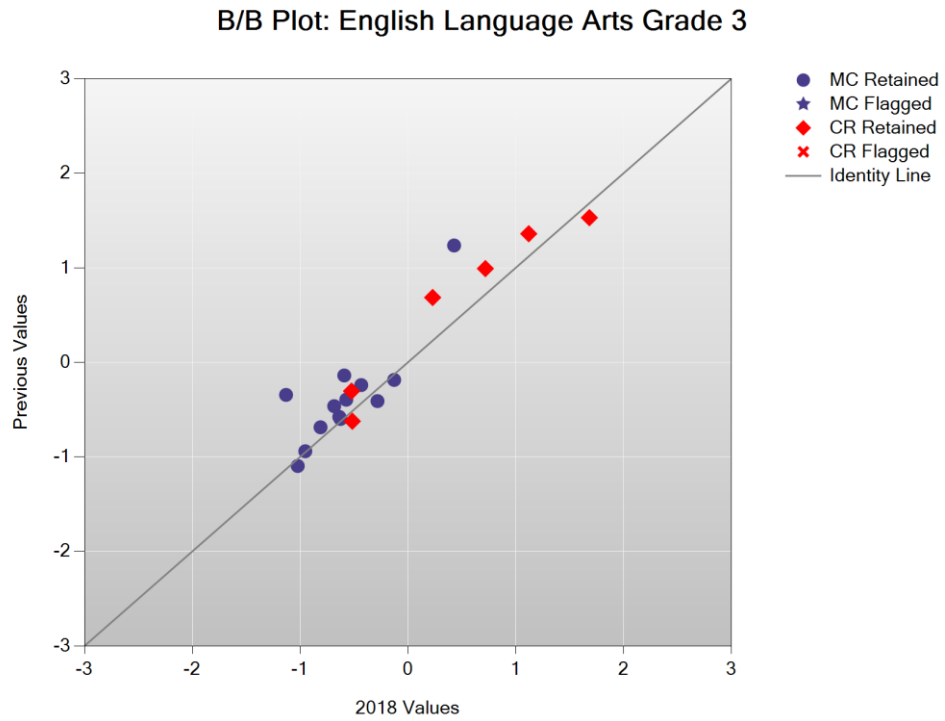
**Figure M-1. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 3**



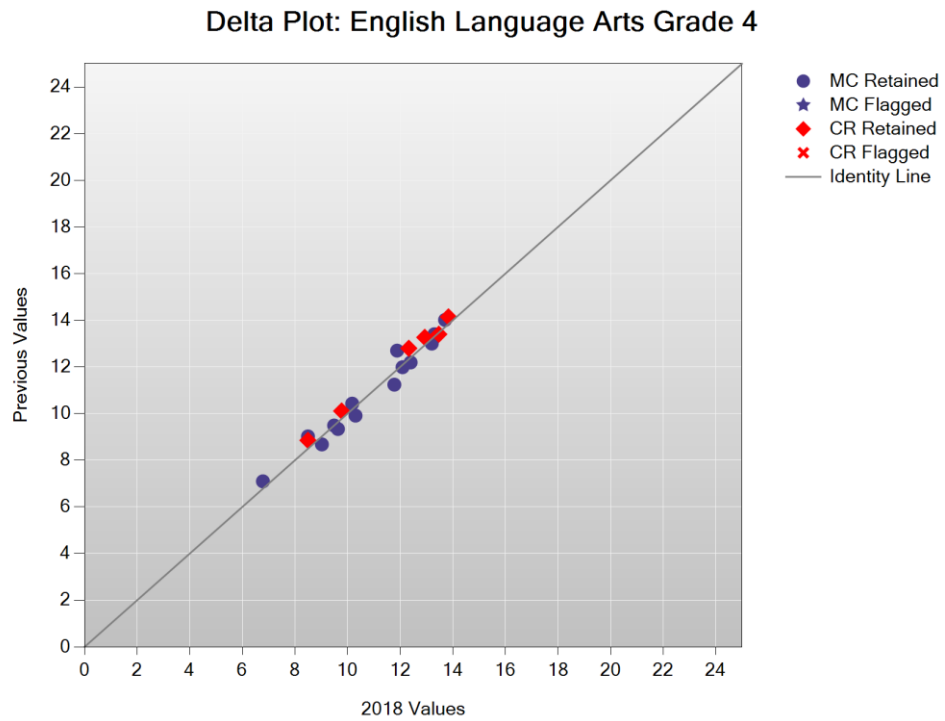
**Figure M-2. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–ELA Grade 3**



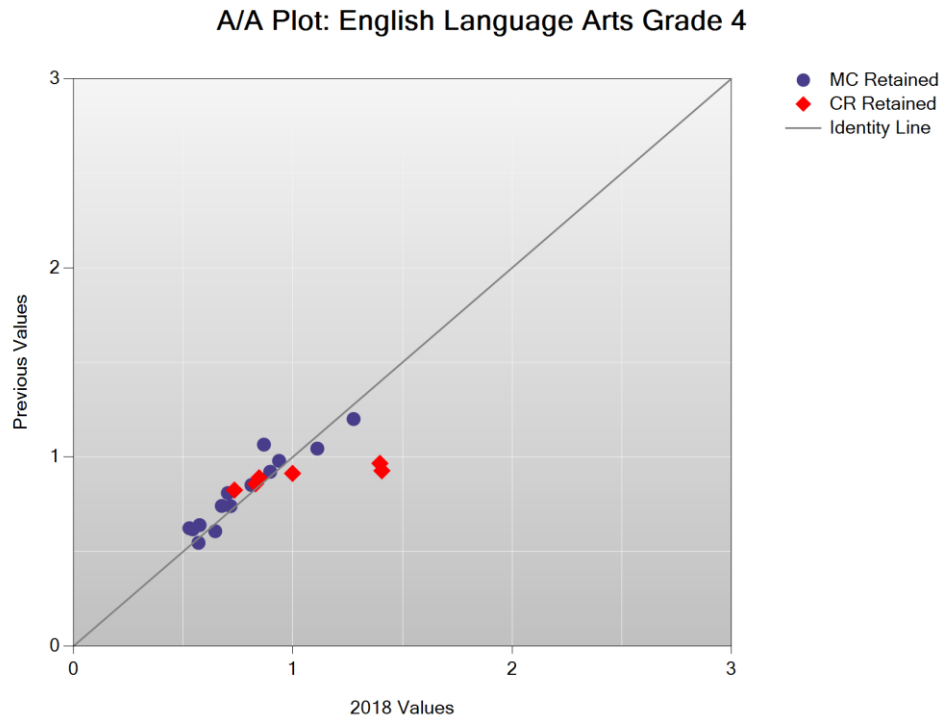
**Figure M-3. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
–ELA Grade 3**



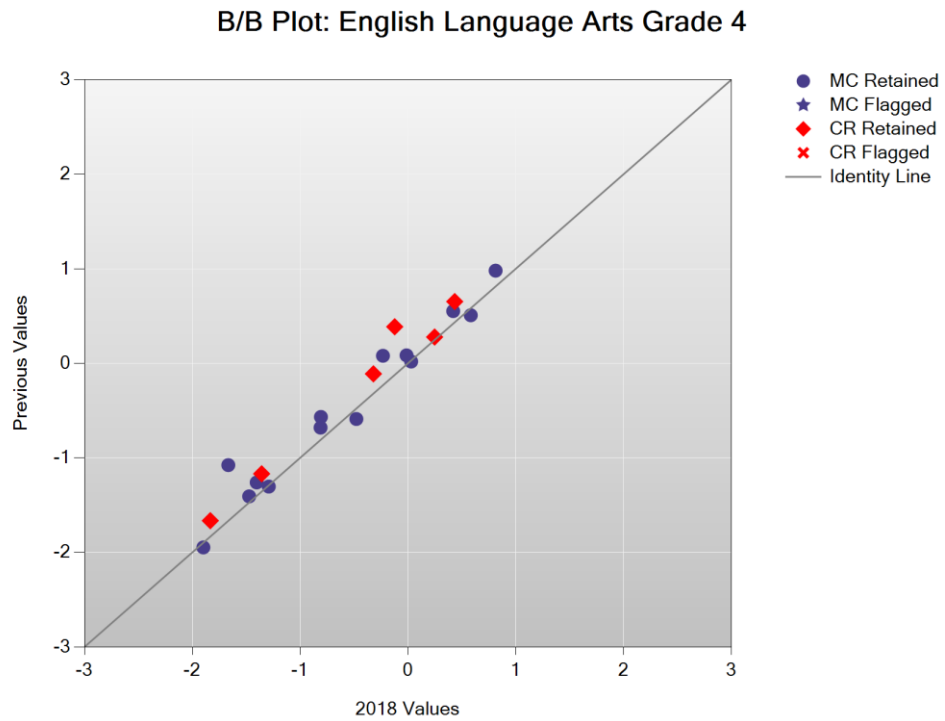
**Figure M-4. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 4**



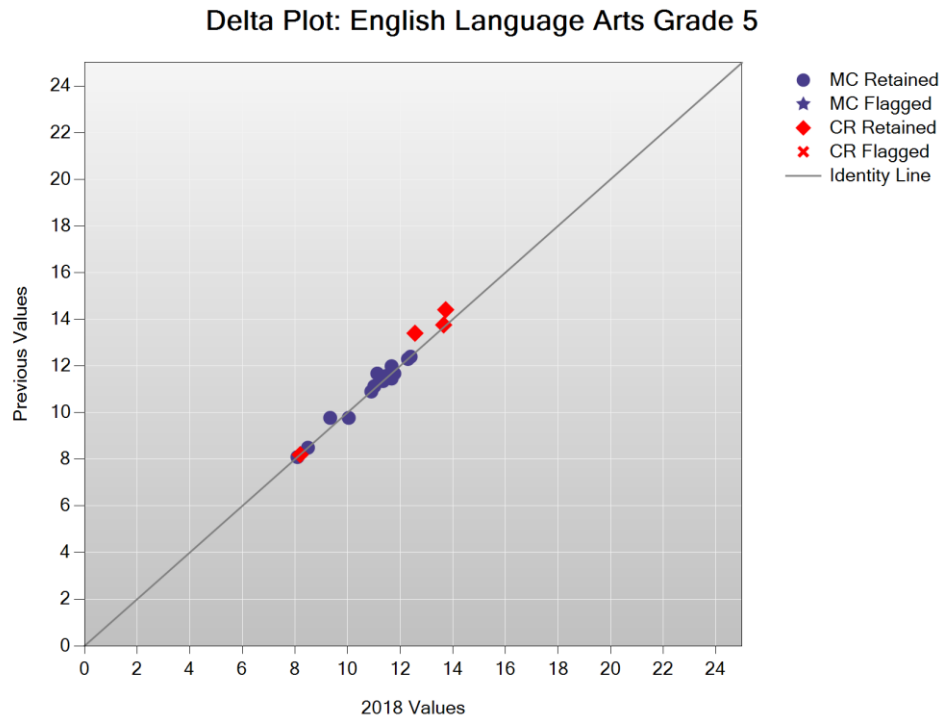
**Figure M-5. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–ELA Grade 4**



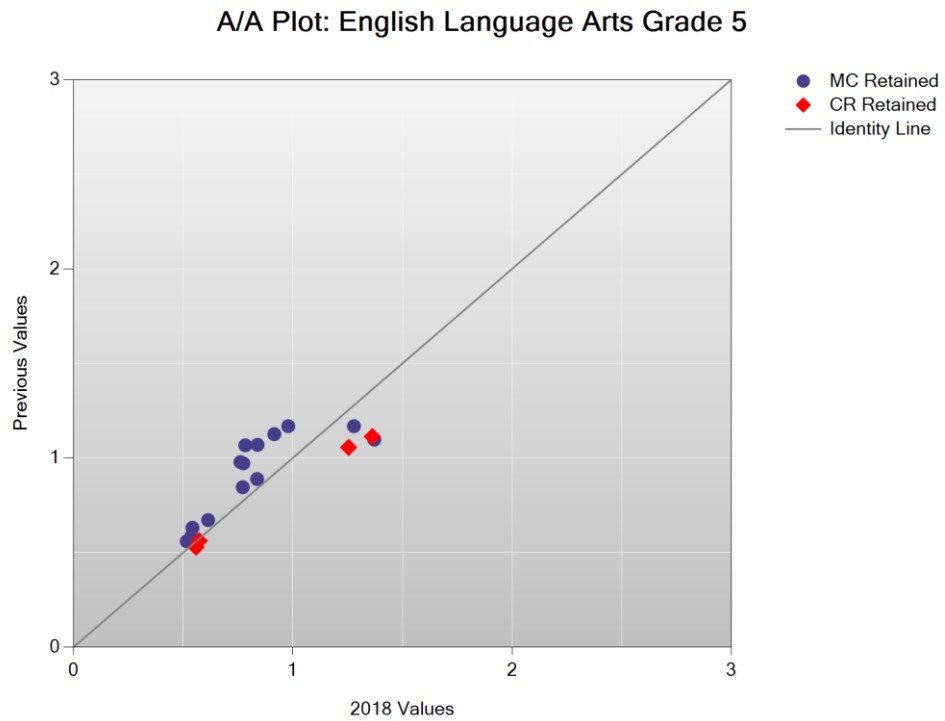
**Figure M-6. 2018 Next-Generation MCAS and MCAS Alt: b -Plot
–ELA Grade 4**



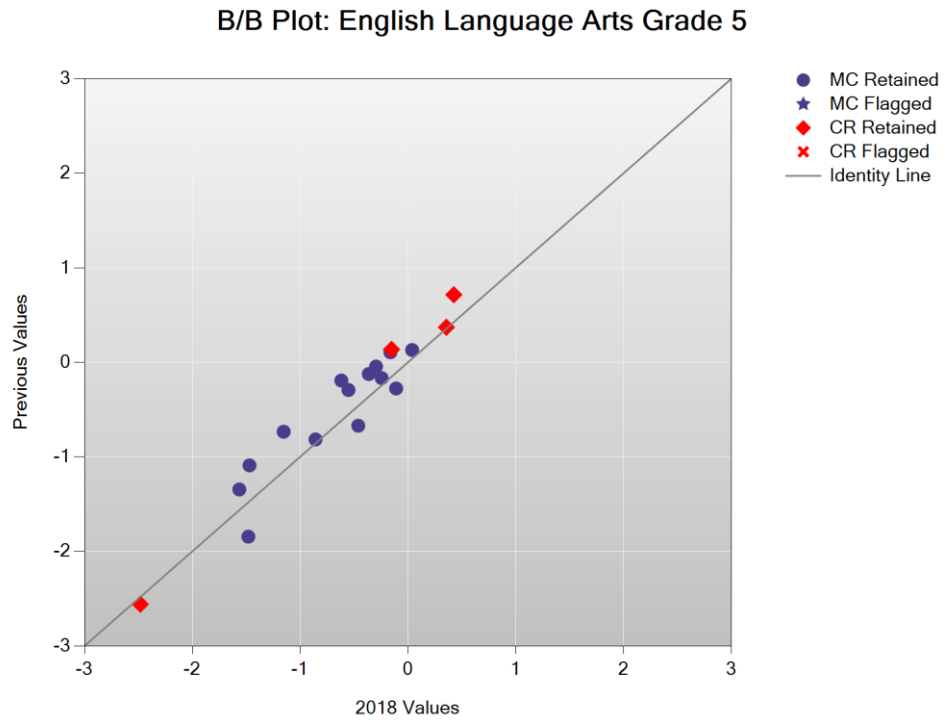
**Figure M-7. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 5**



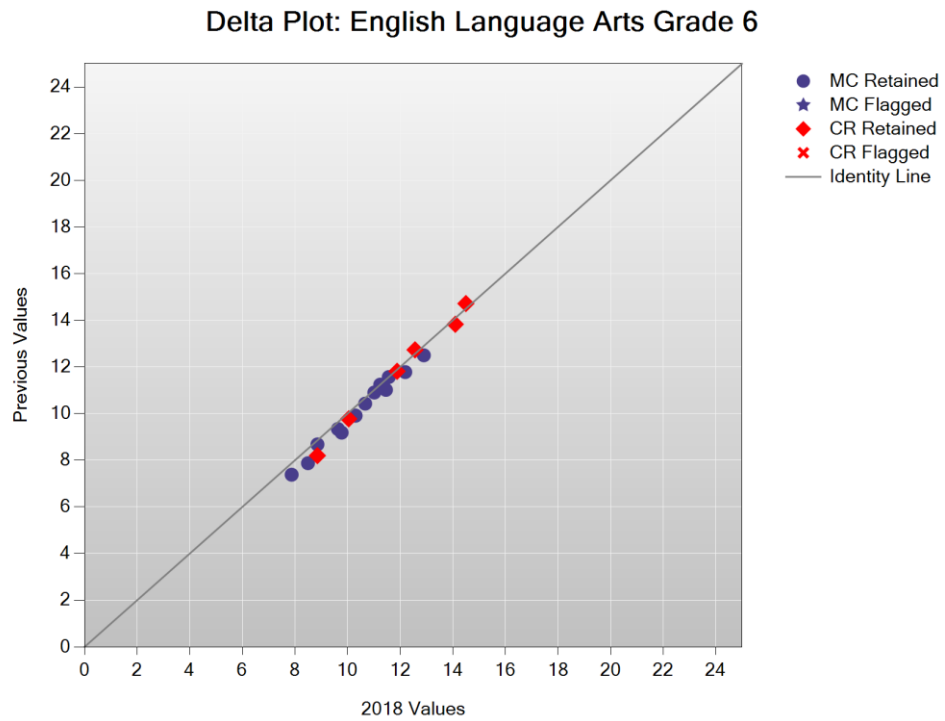
**Figure M-8. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–ELA Grade 5**



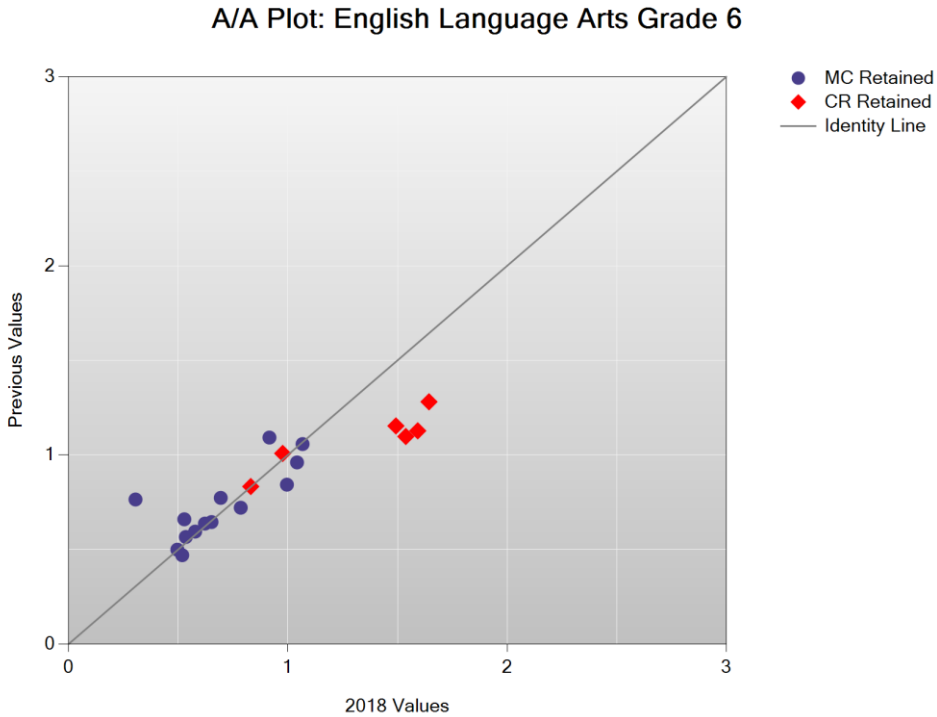
**Figure M-9. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
–ELA Grade 5**



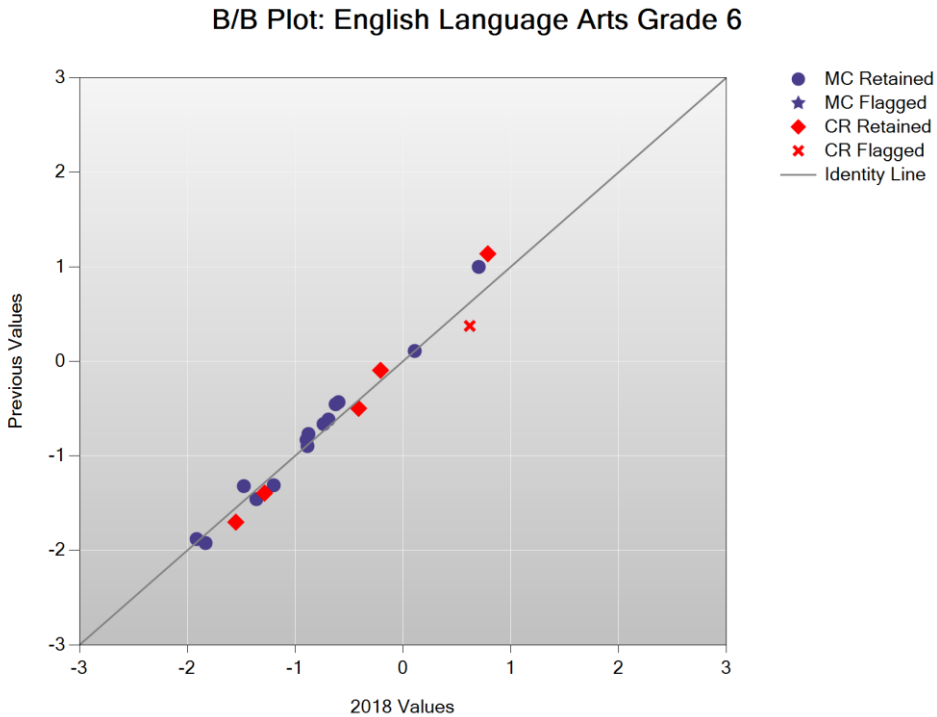
**Figure M-10. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 6**



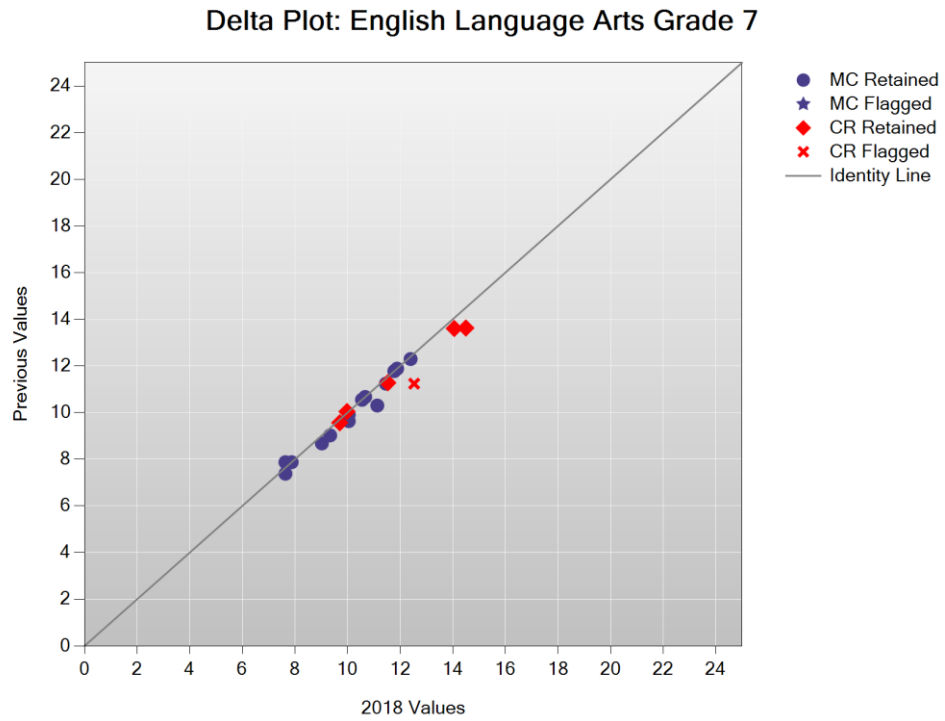
**Figure M-11. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
 –ELA Grade 6**



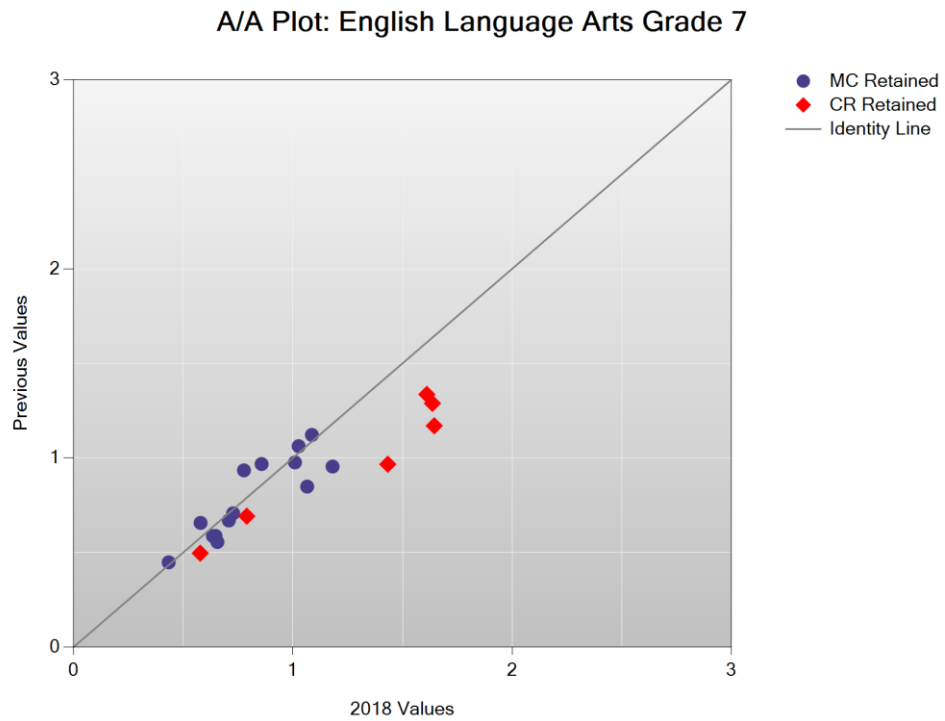
**Figure M-12. 2018 Next-Generation MCAS and MCAS Alt: b -Plot
 –ELA Grade 6**



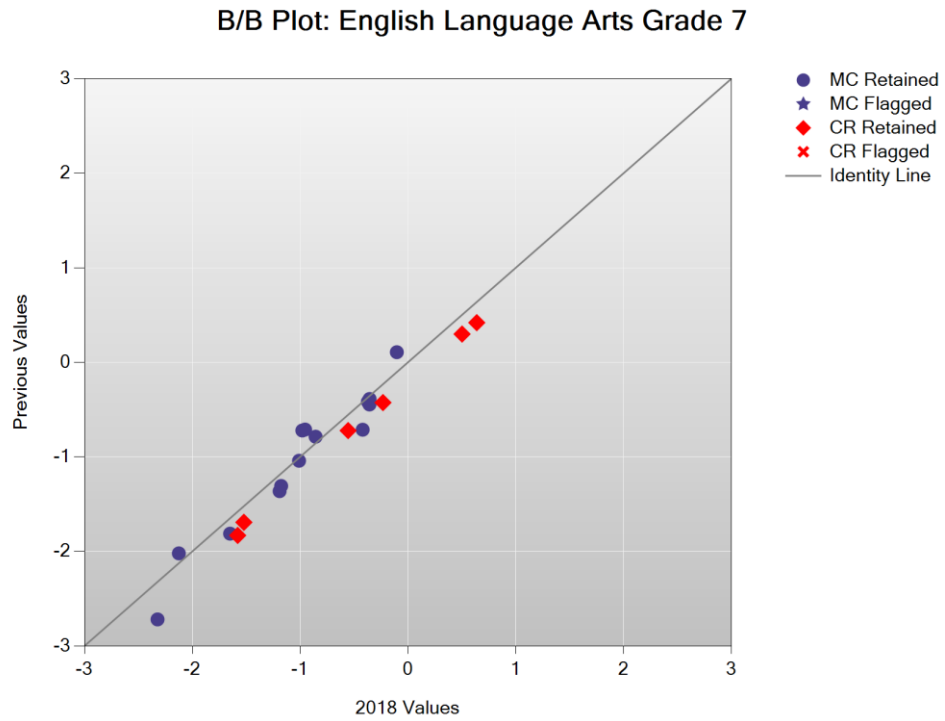
**Figure M-13. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 7**



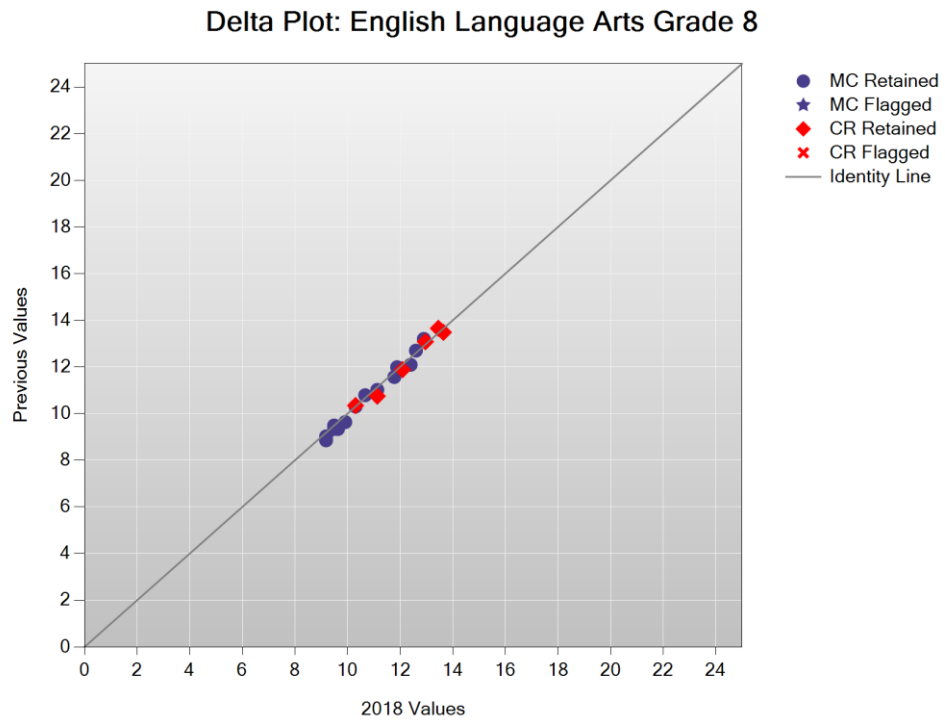
**Figure M-14. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–ELA Grade 7**



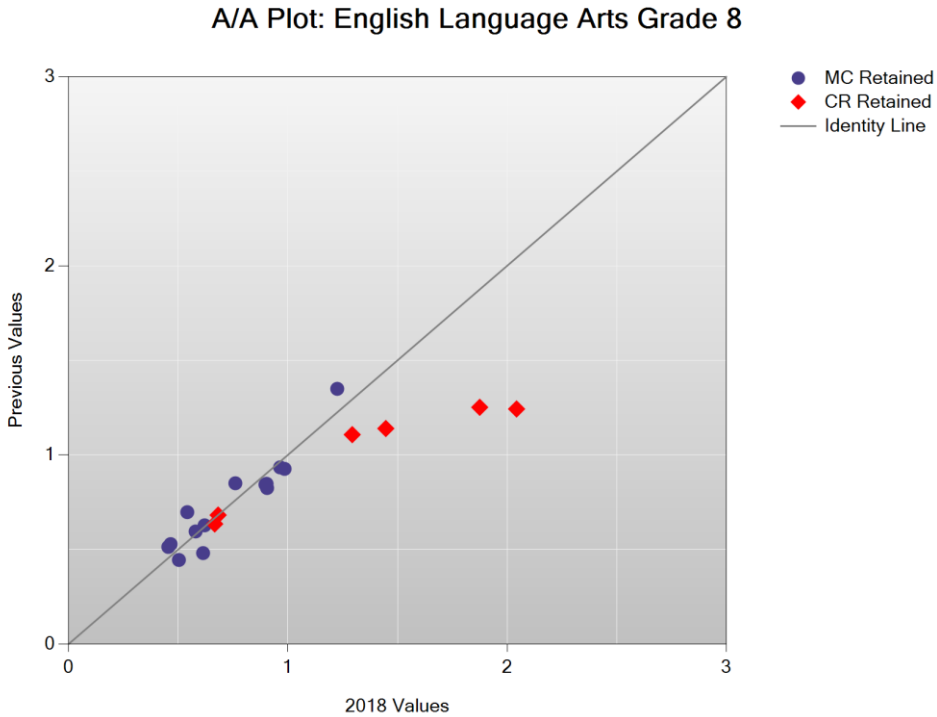
**Figure M-15. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
–ELA Grade 7**



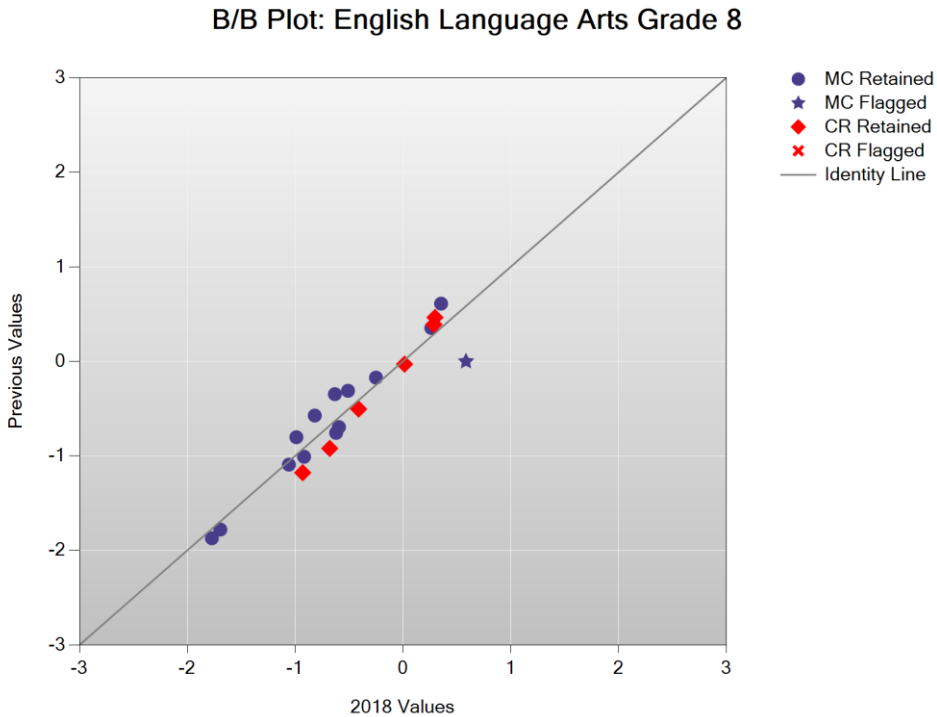
**Figure M-16. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–ELA Grade 8**



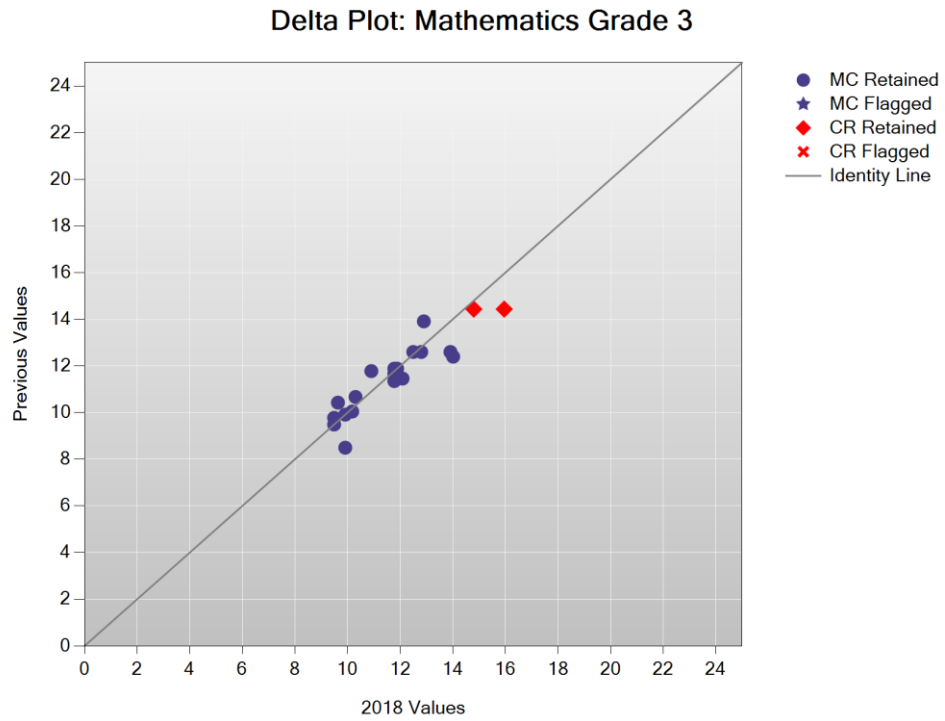
**Figure M-17. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
 –ELA Grade 8**



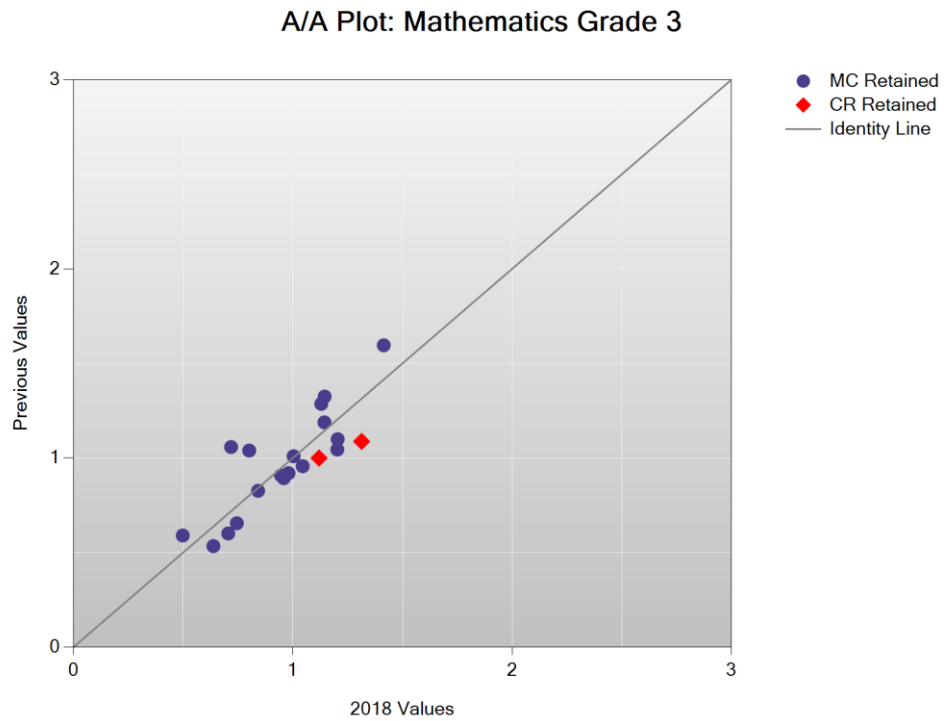
**Figure M-18. 2018 Next-Generation MCAS and MCAS Alt: b -Plot
 –ELA Grade 8**



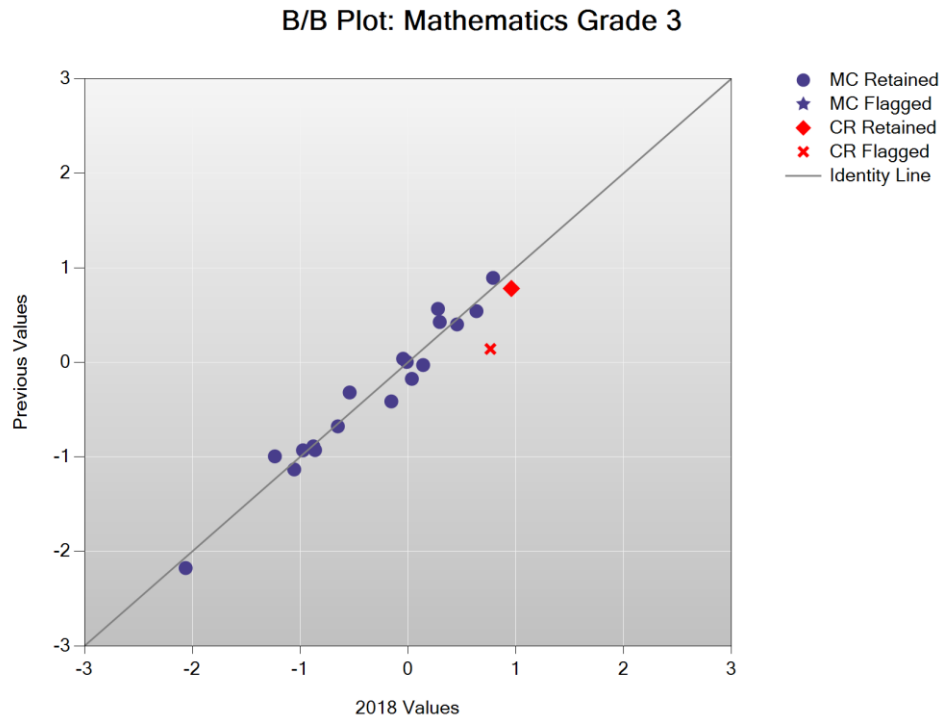
**Figure M-19. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–Mathematics Grade 3**



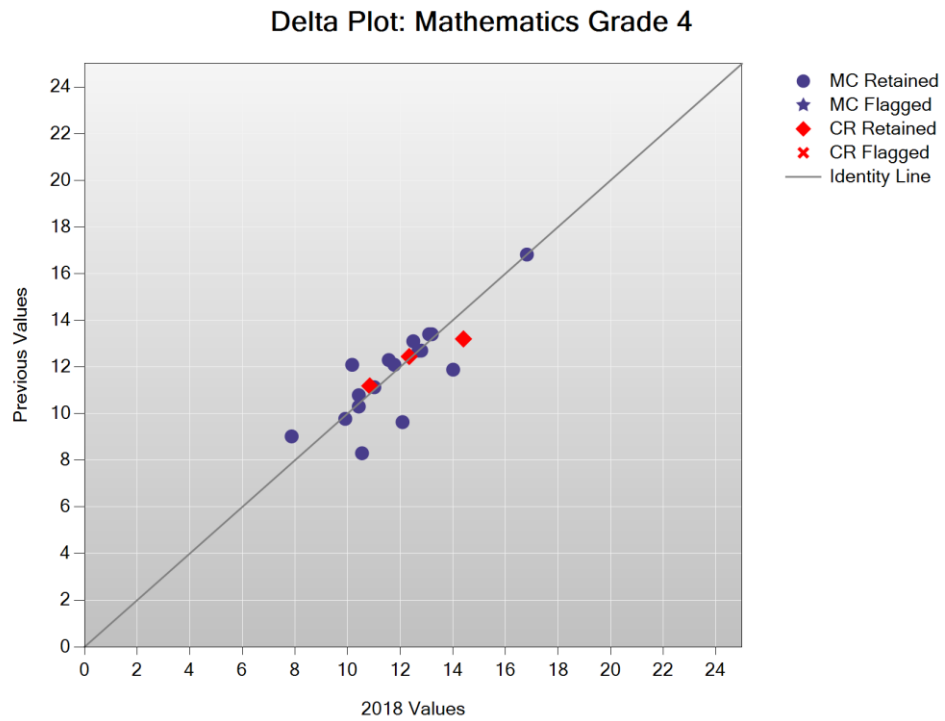
**Figure M-20. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–Mathematics Grade 3**



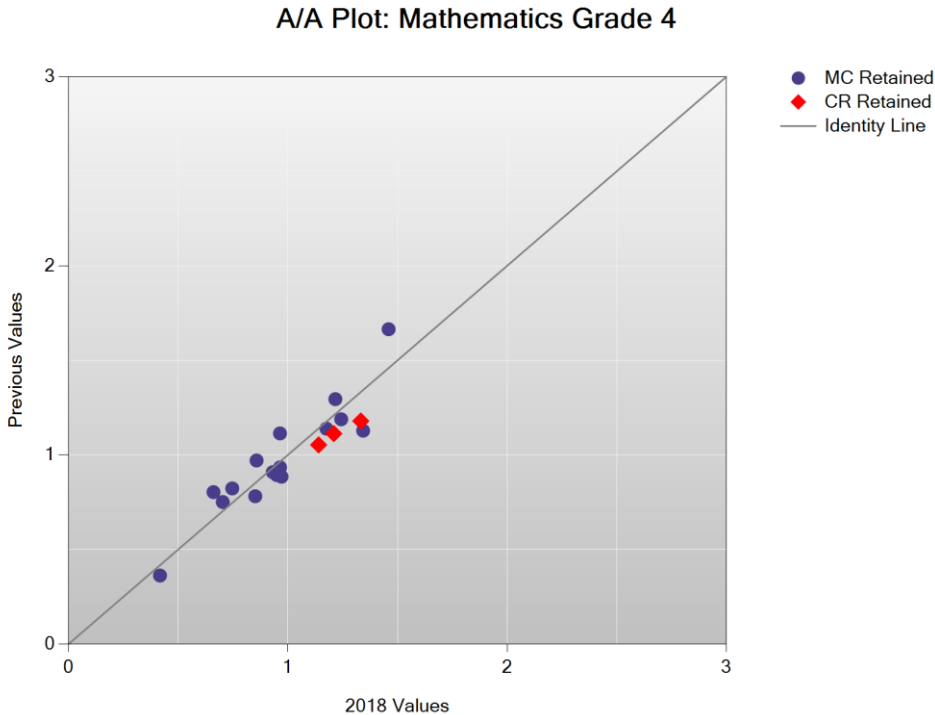
**Figure M-21. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
–Mathematics Grade 3**



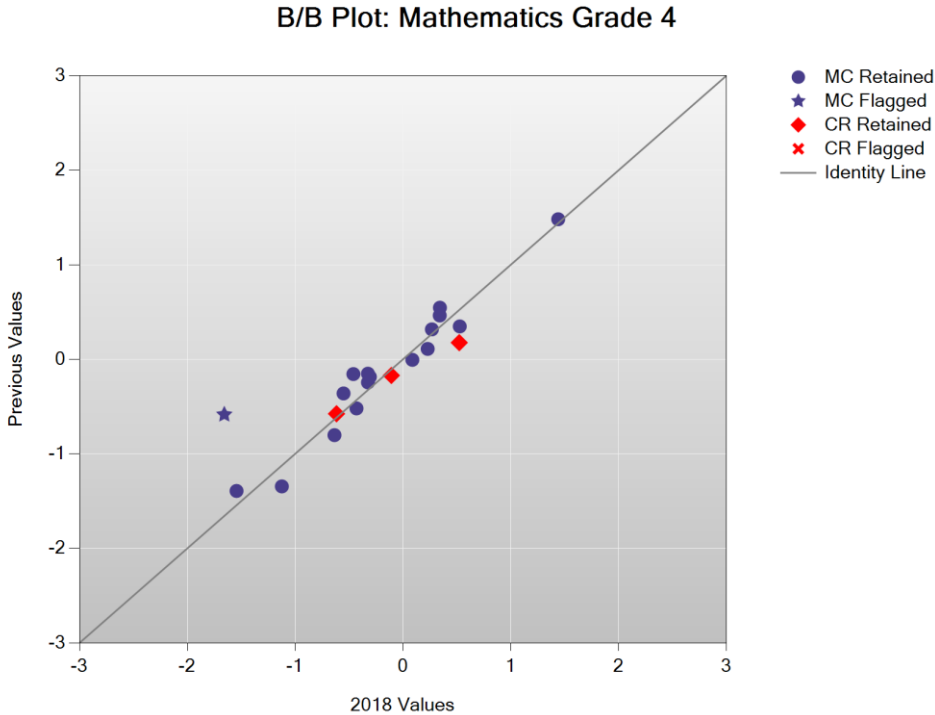
**Figure M-22. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–Mathematics Grade 4**



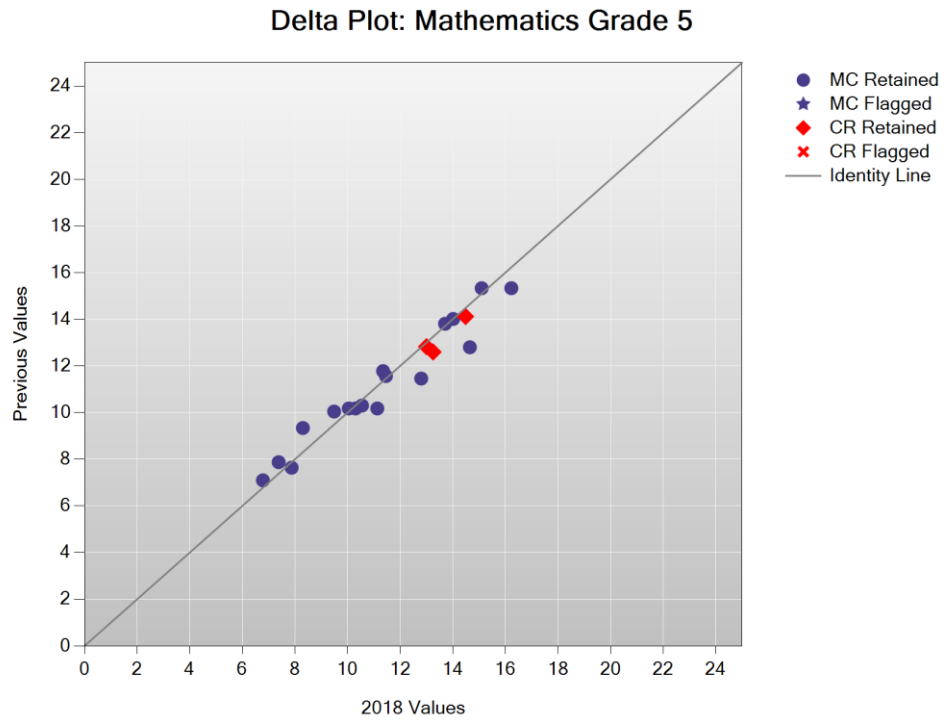
**Figure M-23. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
 –Mathematics Grade 4**



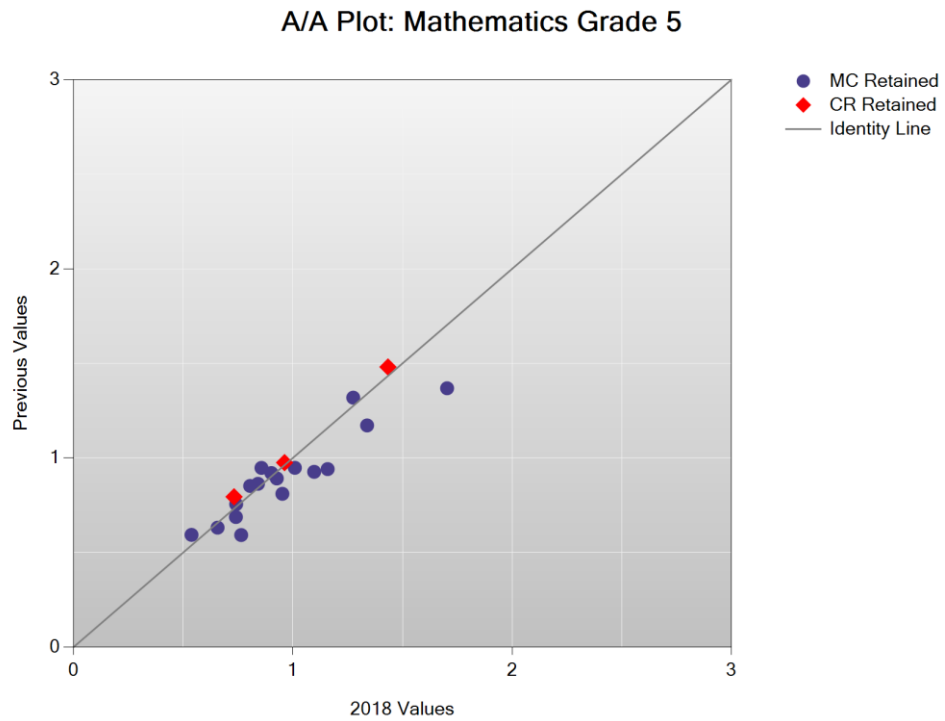
**Figure M-24. 2018 Next-Generation MCAS and MCAS Alt: β -Plot
 –Mathematics Grade 4**



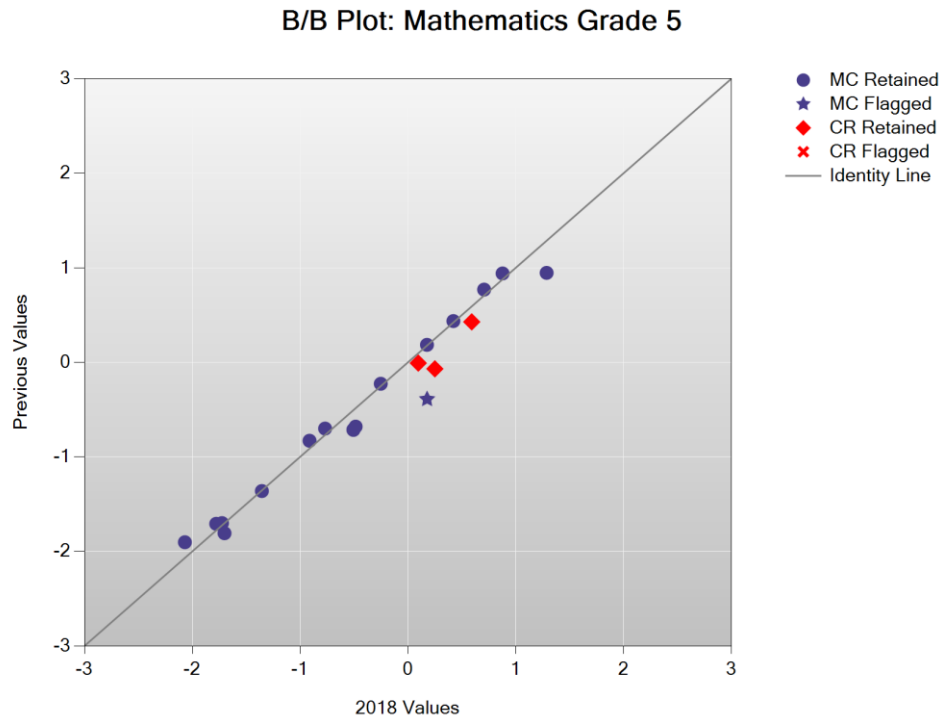
**Figure M-25. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–Mathematics Grade 5**



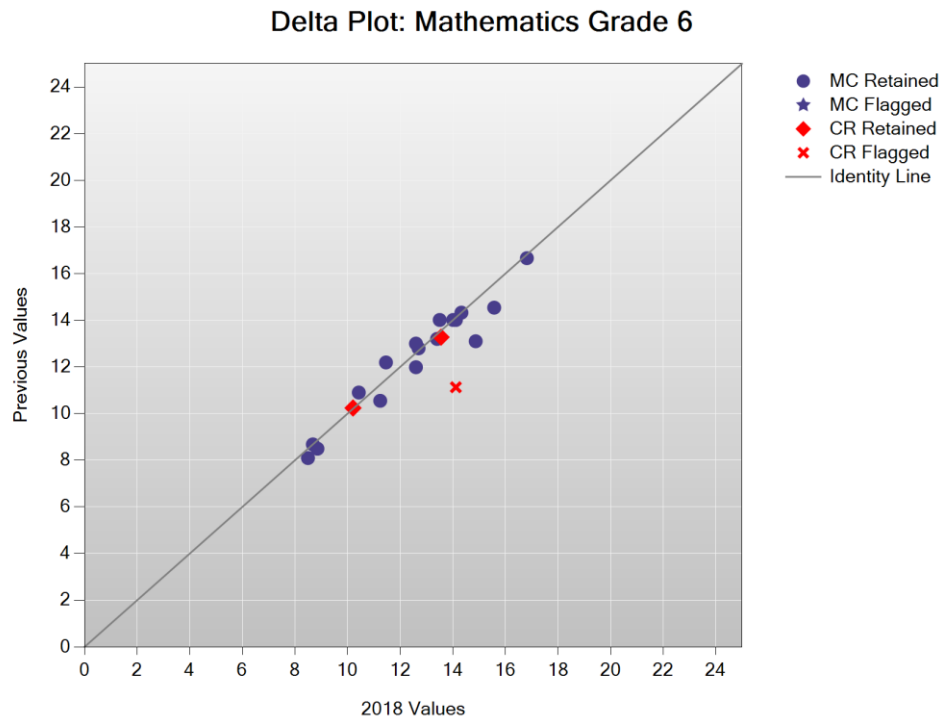
**Figure M-26. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–Mathematics Grade 5**



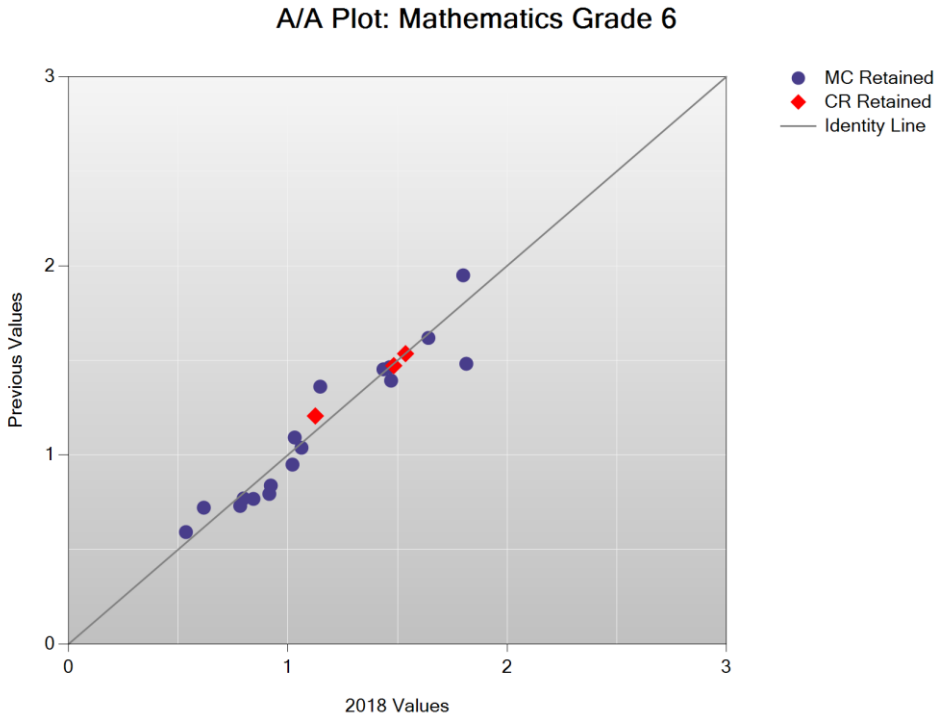
**Figure M-27. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
 –Mathematics Grade 5**



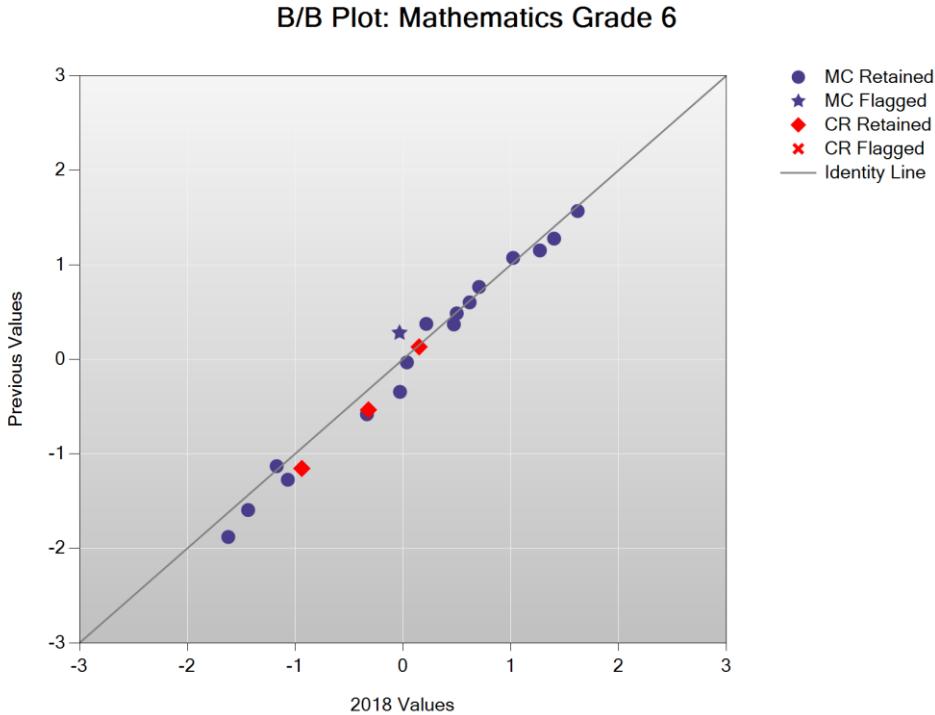
**Figure M-28. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
 –Mathematics Grade 6**



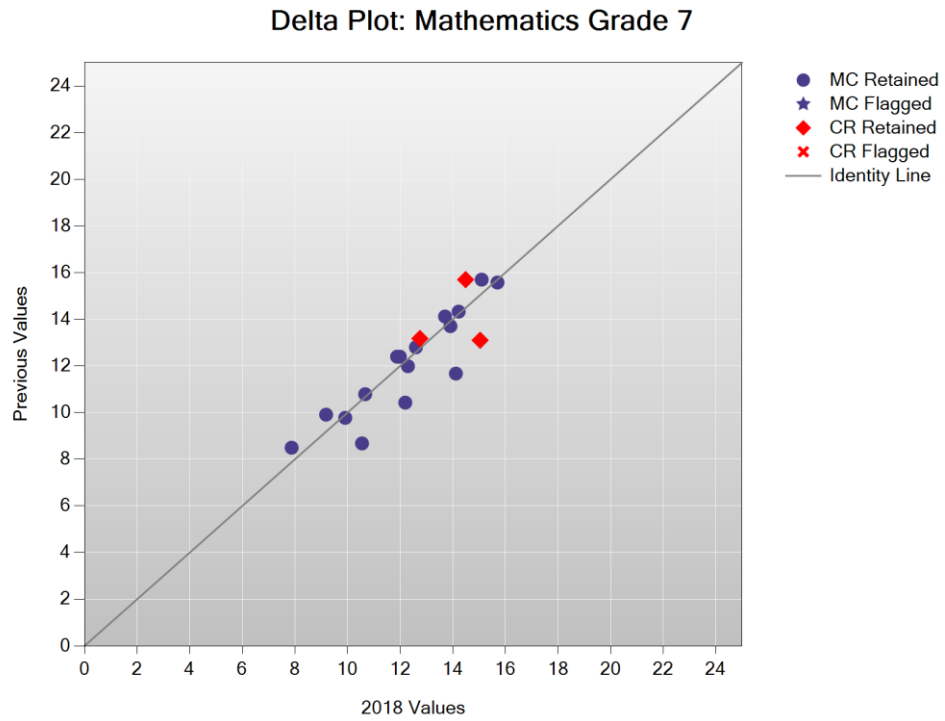
**Figure M-29. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
 –Mathematics Grade 6**



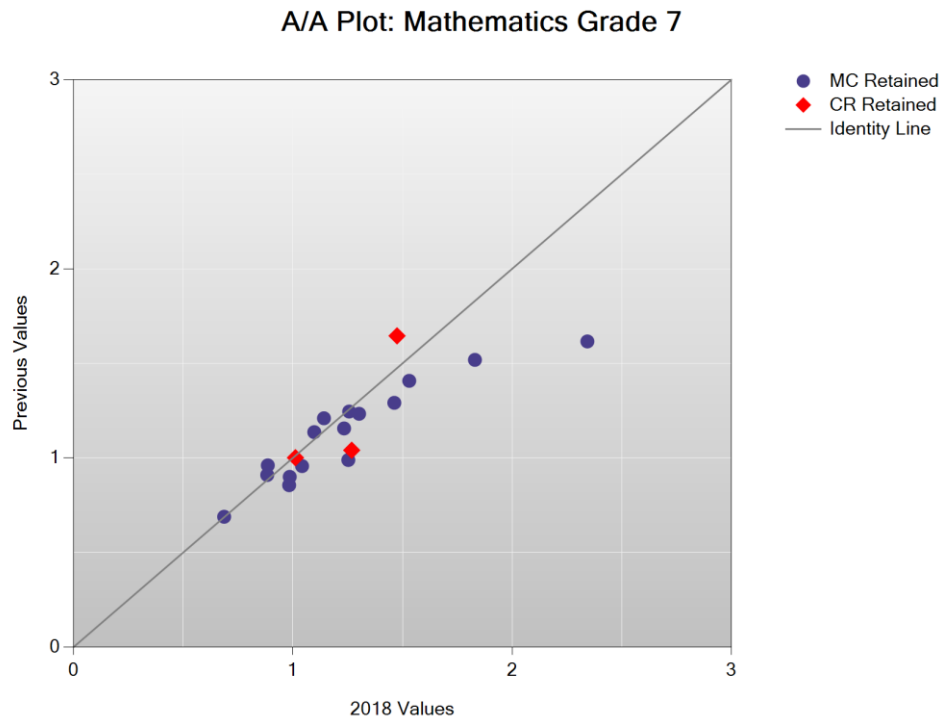
**Figure M-30. 2018 Next-Generation MCAS and MCAS Alt: β -Plot
 –Mathematics Grade 6**



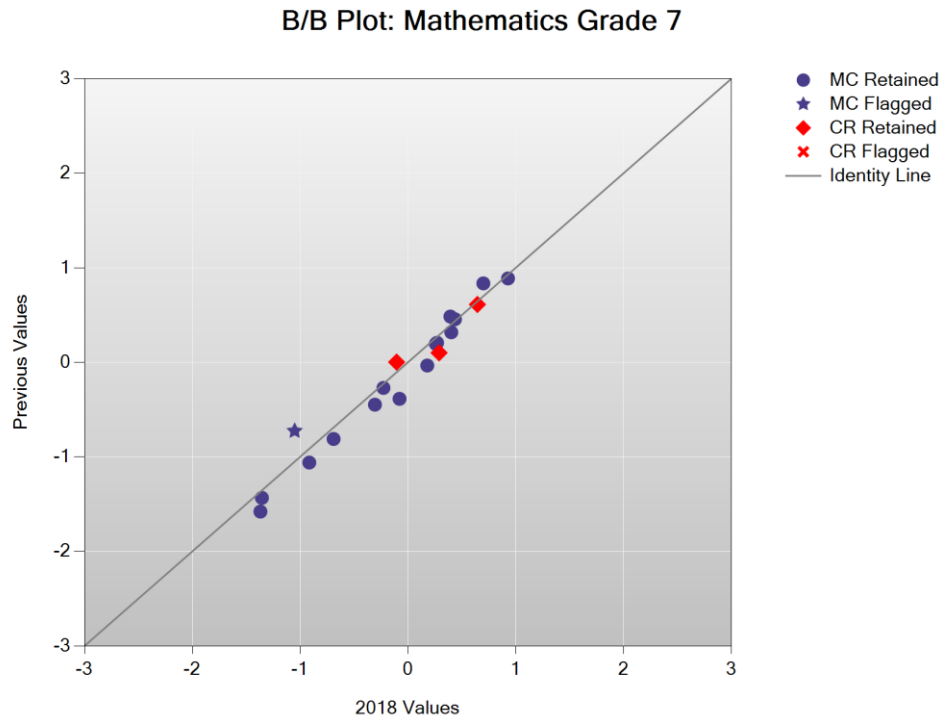
**Figure M-31. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–Mathematics Grade 7**



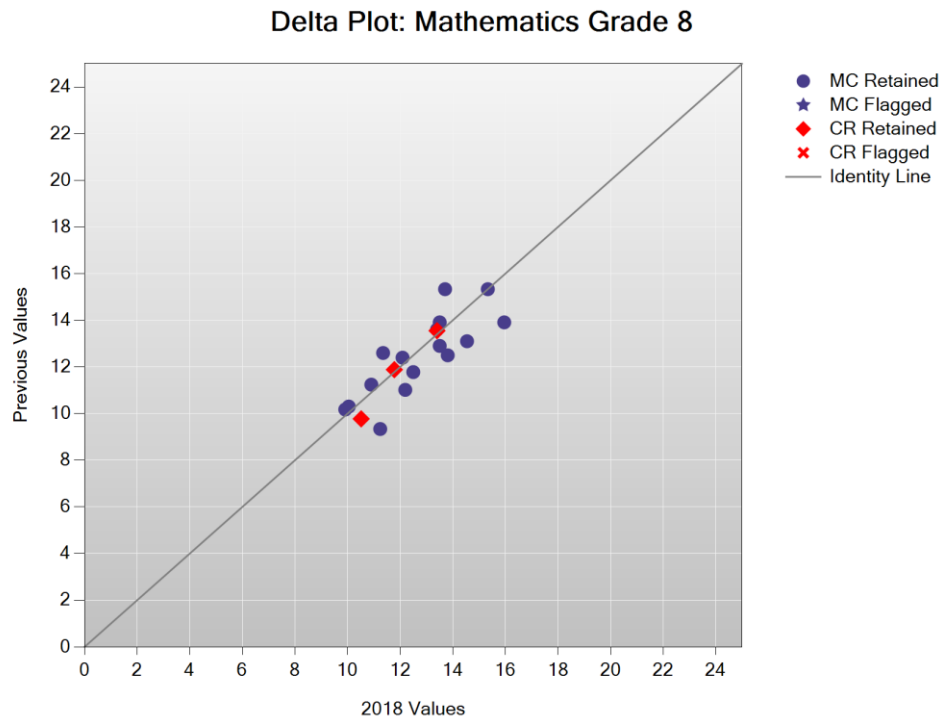
**Figure M-32. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
–Mathematics Grade 7**



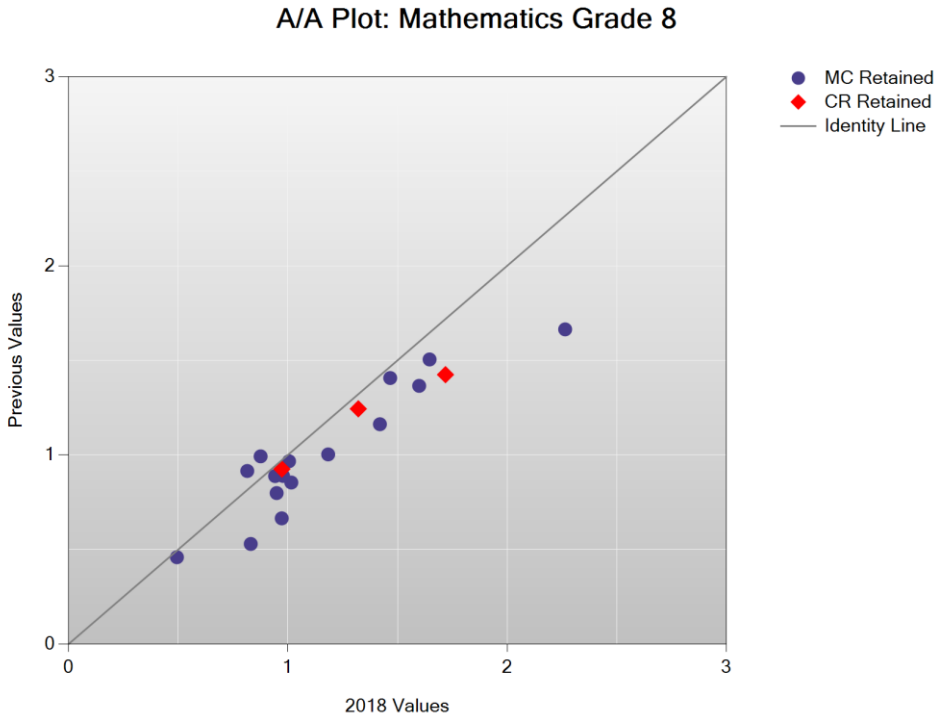
**Figure M-33. 2018 Next-Generation MCAS and MCAS Alt: *b*-Plot
–Mathematics Grade 7**



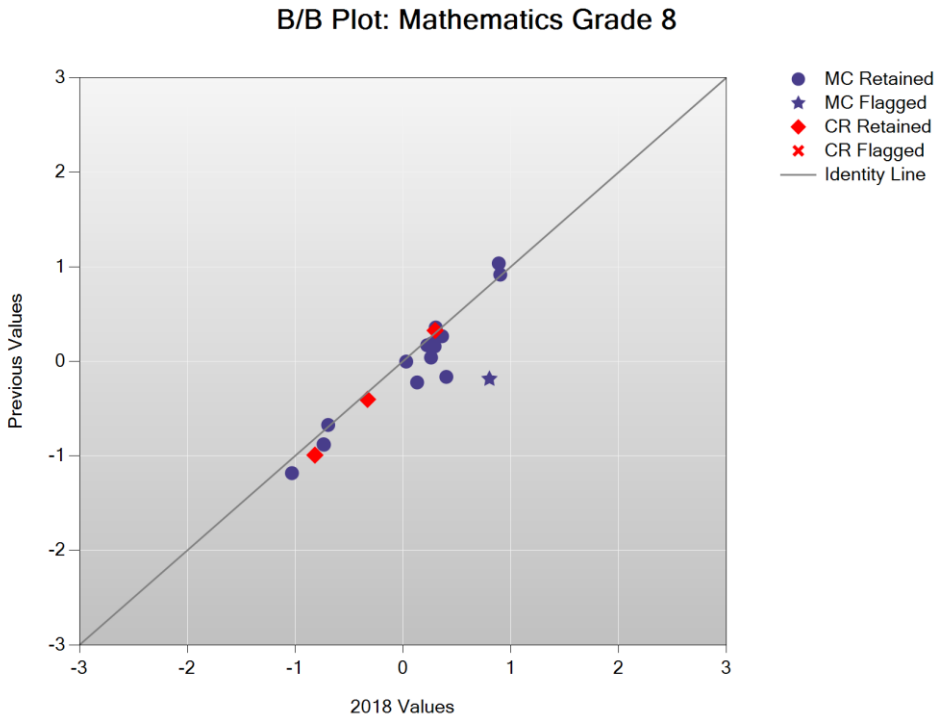
**Figure M-34. 2018 Next-Generation MCAS and MCAS Alt: Delta Plot
–Mathematics Grade 8**



**Figure M-35. 2018 Next-Generation MCAS and MCAS Alt: α -Plot
 –Mathematics Grade 8**



**Figure M-36. 2018 Next-Generation MCAS and MCAS Alt: β -Plot
 –Mathematics Grade 8**



**Table M-1: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 3 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00323	1.28729	0.02939	-0.66751	0.02527	0.20740	0.01440
IA00326	1.21339	0.02814	-0.50336	0.02556	0.23990	0.01310
IA00325	0.58813	0.01967	-0.87339	0.09628	0.15530	0.03700
IA00327	0.99257	0.01824	-1.07711	0.03222	0.02610	0.02050
IA00332	1.27493	0.03173	-1.48632	0.04466	0.13170	0.03540
IA00101	0.68764	0.01782	-1.03754	0.06709	0.07160	0.03250
IA00103	1.15903	0.03125	-1.50395	0.05808	0.24780	0.03930
IA00105	0.74097	0.02028	-1.39258	0.08227	0.12770	0.04350
IA00114	1.64374	0.03791	-0.84322	0.02096	0.18100	0.01410
IA00108	0.61878	0.01565	-1.04861	0.07101	0.04610	0.03240
IA00432	0.51110	0.02460	-0.58426	0.14025	0.30860	0.03830
IA00423	0.92910	0.02700	-0.25057	0.03702	0.29970	0.01480
IA00431	1.22094	0.03083	-1.10551	0.03957	0.23280	0.02460
IA00426	1.07865	0.02345	-0.27711	0.02311	0.17570	0.01120
IA00429	1.70703	0.03989	-1.12951	0.02439	0.16700	0.01890

**Table M-2: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 3 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00099	0.92639	0.00989	-0.37412	0.00753	0.58653	0.01214	-0.58653	0.00891	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00106	0.41380	0.00660	-1.03250	0.02216	1.57262	0.04104	-1.57262	0.01675	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00331	0.58417	0.00726	-0.33147	0.01150	0.96582	0.01881	-0.96582	0.01322	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00333	0.42388	0.00720	-1.68034	0.03241	2.27238	0.06259	-2.27238	0.01685	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00338A	1.03828	0.01458	0.68322	0.00951	1.33996	0.01332	-0.13830	0.01283	-1.20167	0.02174	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00338D	0.93288	0.01331	1.17221	0.01226	2.14755	0.01596	0.26685	0.01391	-0.65715	0.02214	-1.75725	0.03830	0.00000	0.00000	n/a	n/a
IA00433	1.23738	0.01464	-0.68279	0.00673	0.16024	0.01009	-0.16024	0.00891	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00434	0.46293	0.00762	-2.34449	0.03630	1.92713	0.07091	-1.92713	0.01557	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00438	0.75657	0.00840	0.83810	0.01247	2.39983	0.01734	-0.29987	0.01371	-2.09997	0.03017	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00640A	0.99688	0.01446	1.22926	0.01274	1.55387	0.01205	-0.13467	0.01665	-1.41920	0.03222	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00640D	0.91578	0.01373	1.97938	0.01863	1.98294	0.01175	0.64875	0.01734	-0.75880	0.03497	-1.87289	0.06239	0.00000	0.00000	n/a	n/a

**Table M-3: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 3 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00323	1.06404	0.02880	-0.76098	0.04292	0.13650	0.02450
IA00326	1.02188	0.02661	-0.50333	0.03820	0.15100	0.01980
IA00325	0.48066	0.01560	-1.31728	0.13113	0.07240	0.04940
IA00327	0.85566	0.01894	-1.12369	0.04861	0.02740	0.02830
IA00332	1.14677	0.03296	-1.57558	0.06117	0.10960	0.04680
IA00334	0.46101	0.01506	-0.30673	0.08918	0.02950	0.02970
IA00337	0.53339	0.02206	-0.20425	0.10420	0.16500	0.03400
IA00101	0.63873	0.01834	-0.96498	0.08091	0.05800	0.03720
IA00103	1.03623	0.02798	-1.54714	0.06439	0.09940	0.04660
IA00105	0.72847	0.02026	-1.47256	0.08467	0.07190	0.04670
IA00114	1.45787	0.04095	-0.72128	0.03123	0.20590	0.01910
IA00108	0.58546	0.01571	-1.07197	0.08134	0.03950	0.03580
IA00102	0.68286	0.02250	-0.45772	0.07351	0.15740	0.02980
IA00109	0.55923	0.01747	-0.67524	0.08757	0.05250	0.03480
IA00691	0.60719	0.01402	-0.60849	0.05205	0.01350	0.02170
IA00432	0.56575	0.02480	-1.00286	0.13983	0.11760	0.05530
IA00423	0.92815	0.04013	-0.58370	0.07415	0.23820	0.03420
IA00424	0.43768	0.02885	0.53179	0.13747	0.11400	0.03890
IA00431	1.21307	0.04451	-1.03613	0.05677	0.13380	0.03780
IA00426	0.89546	0.02283	-0.45096	0.04121	0.11520	0.02010
IA00429	1.41324	0.03761	-1.21394	0.03852	0.11580	0.02900

**Table M-4: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 3 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00338A	1.18959	0.01637	0.39673	0.01095	1.35334	0.01696	-0.11200	0.01459	-1.24134	0.02404	0.00000	0.00000	nan	nan		
IA00640A	1.06716	0.01434	1.22370	0.01291	1.62176	0.01406	-0.02579	0.01653	-1.59597	0.03209	0.00000	0.00000	nan	nan		
IA00338D	1.07198	0.01484	1.10840	0.01201	2.04344	0.01738	0.44794	0.01588	-0.51507	0.02490	-1.97632	0.03370	0.00000	0.00000		
IA00640D	1.00162	0.01380	2.10278	0.01755	1.94228	0.01277	0.80317	0.01738	-0.65969	0.03209	-2.08575	0.05859	0.00000	0.00000		
IA00331	0.52162	0.00849	-0.36280	0.01784	1.05975	0.03091	-1.05975	0.01781	0.00000	0.00000	nan	nan	nan	nan		
IA00099	0.96439	0.01314	-0.39800	0.01070	0.51343	0.01749	-0.51343	0.01234	0.00000	0.00000	nan	nan	nan	nan		
IA00433	1.08030	0.01604	-0.58826	0.01056	0.25202	0.01631	-0.25202	0.01341	0.00000	0.00000	nan	nan	nan	nan		
IA00438	0.57451	0.00925	1.23540	0.02532	3.45206	0.03734	-0.36919	0.02329	-3.08287	0.06192	0.00000	0.00000	nan	nan		

**Table M-5: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 4 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00656	0.49297	0.01277	-1.05750	0.08968	0.05880	0.03310
IA00647	0.40082	0.00984	-0.67723	0.08018	0.01810	0.02450
IA00651	0.46237	0.01122	-0.24884	0.05699	0.01660	0.01900
IA00646	0.60865	0.01674	-1.54768	0.10480	0.19130	0.04380
IA00643	0.52161	0.01283	-0.39695	0.05710	0.04900	0.02040
IA00157	0.64281	0.01444	-1.76422	0.08815	0.10160	0.04450
IA00165	0.98680	0.01772	-0.86854	0.02901	0.17010	0.01510
IA00161	0.61434	0.01202	-1.04984	0.05281	0.02560	0.02370
IA00163	1.30300	0.02439	-0.89693	0.02237	0.21940	0.01290
IA00171	0.73238	0.01703	-0.31605	0.03789	0.20180	0.01450
IA00396	0.78329	0.01605	-1.31775	0.05444	0.13380	0.02840
IA00399	0.45431	0.01041	-0.43229	0.05934	0.01420	0.01970
IA00391	0.89166	0.01726	-1.42766	0.04842	0.15240	0.02800
IA00398	1.11795	0.01973	-0.50930	0.02022	0.19780	0.01000
IA00400	1.16029	0.01875	-1.79281	0.03401	0.03630	0.02820

**Table M-6: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 4 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00160	0.97345	0.00966	-1.83071	0.01295	0.93827	0.02411	-0.93827	0.00950	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00162	0.75072	0.00736	-0.59081	0.00705	0.25944	0.01093	-0.25944	0.00889	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00172A	1.01815	0.01104	-0.11858	0.00748	1.37700	0.01583	0.08634	0.00919	-1.46335	0.01297	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00172D	1.02465	0.01093	0.32872	0.00936	2.63081	0.02237	0.70207	0.00960	-0.90962	0.01226	-2.42326	0.02564	0.00000	0.00000	n/a	n/a
IA00395	0.89275	0.00932	-1.17721	0.00818	0.12083	0.01226	-0.12083	0.01083	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00397	0.30683	0.00484	0.92267	0.02561	1.96862	0.02298	-1.96862	0.04576	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00401	0.70453	0.00632	-0.19164	0.01016	2.32147	0.02053	0.32910	0.00929	-2.65057	0.02053	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00652	0.52507	0.00604	-0.42831	0.00851	0.31398	0.01338	-0.31398	0.01052	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00660	0.66652	0.00760	-1.72755	0.01357	0.54584	0.02339	-0.54584	0.01379	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00684A	0.96207	0.01047	-0.35913	0.00833	1.56739	0.01992	-0.16033	0.00950	-1.40707	0.01175	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00684D	0.83736	0.00949	0.70500	0.00869	1.53289	0.01297	0.96192	0.01072	-0.48390	0.01348	-2.01091	0.02727	0.00000	0.00000	n/a	n/a

**Table M-7: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 5 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00044	0.84703	0.01599	-1.04642	0.03997	0.12820	0.02060
IA00045	1.25007	0.02884	-1.62657	0.04524	0.25620	0.03080
IA00049	0.78930	0.01656	-0.43497	0.03429	0.20090	0.01400
IA00053	0.92810	0.02497	0.19475	0.02716	0.43910	0.00820
IA00052	0.49525	0.01923	1.59281	0.02892	0.14410	0.00910
IA00484	0.44507	0.01359	-0.39077	0.08624	0.07230	0.02690
IA00490	1.10097	0.01610	-1.33303	0.02582	0.03280	0.01750
IA00479	0.93190	0.01490	-1.02442	0.02871	0.05580	0.01630
IA00480	1.10143	0.01667	-0.52876	0.01735	0.11600	0.00890
IA00483	0.70101	0.01240	-0.61861	0.03367	0.03520	0.01510
IA00459	0.42875	0.00615	-0.66809	0.02510	0.00090	0.00670
IA00461	1.25280	0.01968	-1.18255	0.02241	0.07580	0.01510
IA00463	0.91928	0.01775	-0.65435	0.03109	0.23690	0.01390
IA00472	0.53752	0.01047	-0.75237	0.05133	0.01760	0.02000
IA00465	1.18129	0.02127	-0.90048	0.02448	0.20220	0.01360

**Table M-8: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 5 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00054A	1.11183	0.01132	-0.14137	0.00726	1.58187	0.01632	-0.15289	0.00847	-1.42897	0.01167	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00054D	0.92161	0.00979	0.85157	0.00857	1.53876	0.01136	1.01015	0.00992	-0.47797	0.01301	-2.07092	0.02789	0.00000	0.00000	n/a	n/a
IA00471	0.43723	0.00518	-1.00784	0.01575	1.41835	0.02913	-1.41835	0.01198	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00474A	1.26839	0.01297	0.04248	0.00695	1.57082	0.01405	0.00803	0.00806	-1.57883	0.01312	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00474D	1.22186	0.01246	0.87193	0.01139	2.55562	0.01518	0.86506	0.00826	-0.77355	0.01343	-2.64712	0.03997	0.00000	0.00000	n/a	n/a
IA00476	0.92935	0.00882	-1.27266	0.00836	0.37580	0.01374	-0.37580	0.00950	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00489	1.02532	0.00865	-0.56078	0.00574	0.36872	0.00909	-0.36872	0.00702	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00491A	1.06172	0.01092	-0.21725	0.00746	1.45342	0.01663	-0.00692	0.00909	-1.44650	0.01188	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00491D	0.98578	0.01029	0.45038	0.01159	3.00929	0.02551	0.73414	0.00971	-0.81089	0.01250	-2.93255	0.03532	0.00000	0.00000	n/a	n/a
IA00493	0.95409	0.00933	-1.65817	0.01095	0.71380	0.01962	-0.71380	0.00971	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00513	0.58929	0.00586	-0.24875	0.00805	0.64150	0.01291	-0.64150	0.00961	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00514	0.56715	0.00625	-0.77623	0.00924	0.27143	0.01467	-0.27143	0.01126	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a

**Table M-9: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 6 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00607	0.50362	0.01366	-1.75346	0.12160	0.11300	0.04640
IA00602	0.75013	0.01835	-0.69580	0.04760	0.28390	0.01690
IA00611	0.83816	0.01922	-1.09300	0.04703	0.22550	0.02060
IA00613	0.90744	0.01774	-1.51429	0.04484	0.10340	0.02600
IA00549	0.22897	0.00994	-1.27050	0.27652	0.06260	0.04980
IA00559	0.68514	0.01789	0.52243	0.02755	0.20910	0.00870
IA00556	0.79851	0.01402	-0.88667	0.03204	0.05240	0.01490
IA00557	0.60394	0.00907	-1.46000	0.04219	0.00930	0.01870
IA00552	0.72174	0.01621	-0.44199	0.03827	0.18320	0.01410
IA00671	0.73076	0.01498	-0.79204	0.04103	0.12340	0.01710
IA00667	0.61617	0.01815	0.48347	0.03631	0.24210	0.01060
IA00668	0.56403	0.01183	-0.77049	0.05210	0.03870	0.01970
IA00685	0.68295	0.01422	-0.27554	0.03273	0.09560	0.01230
IA00673	0.77862	0.01779	0.22389	0.02444	0.17650	0.00860
IA00674	1.03028	0.02243	-0.87941	0.03250	0.28570	0.01420

**Table M-10: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 6 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00561	0.67948	0.00775	-1.34104	0.01103	0.23952	0.01717	-0.23952	0.01383	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00562	0.46672	0.00566	-0.61384	0.01669	1.76458	0.02870	-1.76458	0.01706	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00565A	1.16429	0.01310	-0.02196	0.00757	1.37429	0.01464	0.04576	0.01003	-1.42005	0.01418	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00565D	1.13116	0.01208	1.24633	0.01276	2.91495	0.01602	1.25354	0.01014	-0.14104	0.01395	-1.35338	0.02444	-2.67408	0.05406	0.00000	0.00000
IA00612	0.88225	0.00973	-1.37130	0.00951	0.11428	0.01406	-0.11428	0.01279	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00615	0.47839	0.00560	-0.70582	0.01385	1.37475	0.02374	-1.37475	0.01429	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00617A	1.18544	0.01320	-0.19616	0.00701	1.21577	0.01441	-0.07957	0.00991	-1.13619	0.01164	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00617D	1.04644	0.01117	0.97237	0.00889	2.11435	0.01372	1.25022	0.01083	0.02370	0.01210	-1.16375	0.01971	-2.22452	0.03366	0.00000	0.00000
IA00676	0.75502	0.00780	-0.44931	0.00734	0.20776	0.01072	-0.20776	0.01003	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00680	0.69518	0.00678	-0.42885	0.00961	1.11771	0.01579	-1.11771	0.01095	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00682A	1.09982	0.01248	0.17283	0.00783	1.42420	0.01418	-0.04219	0.01026	-1.38201	0.01568	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00682D	1.14242	0.01234	1.36676	0.01296	2.74987	0.01429	1.39276	0.01003	-0.15881	0.01487	-1.44804	0.02755	-2.53578	0.05394	0.00000	0.00000

**Table M-11: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 6 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00607	0.45113	0.01859	-1.72468	0.18084	0.11250	0.06030
IA00611	0.71125	0.02779	-0.99407	0.09330	0.18470	0.03680
IA00608	0.46517	0.01634	-1.32609	0.12457	0.05050	0.04230
IA00609	0.33176	0.02655	0.76605	0.18710	0.13570	0.04090
IA00613	0.85626	0.02856	-1.37685	0.07503	0.11140	0.03790
IA00602	0.56375	0.02430	-0.80563	0.11795	0.15520	0.03980
IA00559	0.55464	0.03115	0.97276	0.06657	0.22510	0.01800
IA00564	0.33329	0.01864	-0.67052	0.22400	0.09250	0.05290
IA00560	0.46671	0.02339	0.12997	0.10569	0.10820	0.03000
IA00549	0.27972	0.01500	-0.74347	0.23687	0.06200	0.04940
IA00556	0.68418	0.02152	-0.57452	0.06008	0.05480	0.02320
IA00557	0.55162	0.01620	-1.31027	0.08791	0.03210	0.03400
IA00552	0.66184	0.02511	-0.30111	0.06903	0.14250	0.02410
IA00671	0.57535	0.02257	-0.93326	0.10875	0.11130	0.03950
IA00667	0.44471	0.02966	0.67164	0.11807	0.21360	0.02900
IA00668	0.56476	0.02569	-0.66427	0.10728	0.06220	0.03750
IA00666	0.55043	0.02434	-1.51331	0.13830	0.07540	0.05250
IA00685	0.62892	0.02842	-0.39883	0.08460	0.05940	0.03030
IA00673	0.60817	0.04203	0.63964	0.08791	0.21510	0.02560

**Table M-12: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 6 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00617A	1.18299	0.02458	-0.43524	0.01484	1.21931	0.03237	-0.08325	0.02256	-1.13606	0.02060	0.00000	0.00000	nan	nan	nan	nan
IA00565A	1.42816	0.03067	-0.10044	0.01406	1.23962	0.02722	0.05525	0.02048	-1.29488	0.02489	0.00000	0.00000	nan	nan	nan	nan
IA00682A	1.40971	0.02300	-0.01487	0.01165	1.34384	0.02182	0.03833	0.01655	-1.38217	0.02170	0.00000	0.00000	nan	nan	nan	nan
IA00617D	1.02801	0.01548	1.04078	0.01450	2.19400	0.02268	1.53107	0.01913	0.28516	0.01729	-1.32649	0.02967	-2.68373	0.05652	0.00000	0.00000
IA00565D	1.31425	0.01965	1.21885	0.01526	2.72113	0.02317	1.33924	0.01643	-0.02229	0.01974	-1.43703	0.03090	-2.60105	0.06057	0.00000	0.00000
IA00682D	1.45499	0.02319	1.27793	0.01515	2.58710	0.02097	1.50743	0.01655	-0.13585	0.02170	-1.53110	0.03372	-2.42759	0.05848	0.00000	0.00000
IA00612	0.76545	0.01567	-1.30096	0.02057	0.11733	0.03028	-0.11733	0.02783	0.00000	0.00000	nan	nan	nan	nan	nan	nan
IA00561	0.68360	0.01438	-1.25473	0.02184	0.21885	0.03347	-0.21885	0.02808	0.00000	0.00000	nan	nan	nan	nan	nan	nan
IA00676	0.60281	0.01256	-0.49047	0.01768	0.23412	0.02648	-0.23412	0.02342	0.00000	0.00000	nan	nan	nan	nan	nan	nan
IA00679	0.66764	0.01270	-0.80036	0.01844	0.46676	0.02992	-0.46676	0.02158	0.00000	0.00000	nan	nan	nan	nan	nan	nan

**Table M-13: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 7 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00629	0.72560	0.01612	-0.72137	0.03868	0.24260	0.01360
IA00623	0.63354	0.01407	-0.77939	0.04543	0.18050	0.01580
IA00626	0.54134	0.01309	-1.62224	0.08606	0.12210	0.03230
IA00631	0.60562	0.01171	-0.85011	0.04040	0.04840	0.01540
IA00542	0.75358	0.01550	0.28090	0.01877	0.14330	0.00650
IA00538	1.02764	0.01730	-0.44728	0.01705	0.17300	0.00710
IA00543	0.59453	0.01257	-1.35239	0.05985	0.08320	0.02390
IA00693	0.81796	0.01201	-1.48571	0.03033	0.03170	0.01540
IA00692	0.45190	0.00919	-2.05013	0.08995	0.03170	0.03310
IA00359	0.83588	0.01222	-1.14377	0.02449	0.02440	0.01150
IA00360	1.11584	0.01946	-0.95734	0.02129	0.21070	0.00990
IA00362	0.65100	0.00934	-1.68965	0.03822	0.00970	0.01770
IA00357	0.36960	0.01638	0.88835	0.06500	0.14010	0.01670
IA00355	0.78408	0.01448	-1.45253	0.04189	0.14270	0.01930
IA00358	0.63585	0.01355	-0.55737	0.03788	0.13780	0.01340

**Table M-14: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 7 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00364	0.67513	0.00637	-1.71837	0.01171	1.04999	0.02129	-1.04999	0.00973	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00365	0.90837	0.00878	-2.21544	0.01213	0.88274	0.02186	-0.88274	0.01053	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00366A	1.21154	0.01253	-0.43484	0.00628	1.17058	0.01293	-0.04043	0.00893	-1.13013	0.01041	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00366D	1.22591	0.01181	0.73601	0.00736	2.04365	0.01133	1.12115	0.00893	0.04221	0.01019	-1.15049	0.01694	-2.05652	0.02747	0.00000	0.00000
IA00540	0.77848	0.00744	-1.35239	0.00834	0.27500	0.01305	-0.27500	0.01041	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00546	0.67847	0.00678	-1.45642	0.00951	0.29789	0.01511	-0.29789	0.01156	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00548A	1.14730	0.01222	-1.24791	0.00831	1.29009	0.02014	-0.00378	0.01144	-1.28631	0.00916	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00548D	1.13237	0.01093	0.06292	0.00778	2.77188	0.02129	1.30899	0.01144	-0.05113	0.00927	-1.46058	0.01465	-2.56916	0.02506	0.00000	0.00000
IA00621	0.43562	0.00523	-2.95988	0.02700	2.03263	0.05207	-2.03263	0.01431	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00628	0.52167	0.00555	-1.11716	0.01029	0.51996	0.01717	-0.51996	0.01133	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00635A	1.12210	0.01145	-0.84630	0.00698	1.14879	0.01579	-0.03029	0.00996	-1.11851	0.00950	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00635D	1.04683	0.01007	0.46458	0.00777	2.23479	0.01453	1.29215	0.01030	0.10117	0.00984	-1.23836	0.01625	-2.38974	0.02884	0.00000	0.00000

**Table M-15: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–ELA Grade 8 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA00586	0.71581	0.01602	-0.75515	0.04344	0.29890	0.01420
IA00572	0.72464	0.01956	0.87644	0.02155	0.27450	0.00630
IA00571	0.53287	0.01492	-0.08805	0.05310	0.26630	0.01410
IA00583	0.45052	0.00574	-1.85810	0.02626	0.00050	0.00510
IA00568	0.56421	0.01602	1.02409	0.02543	0.17140	0.00760
IA00590	0.39399	0.00903	-0.98238	0.08041	0.02440	0.02350
IA00579	0.55577	0.00943	-0.70334	0.03626	0.01270	0.01300
IA00578	0.65862	0.01632	-0.46363	0.04486	0.29890	0.01350
IA00587	0.33585	0.00868	-1.87058	0.14187	0.04390	0.03860
IA00576	0.54320	0.00963	-1.78993	0.06370	0.02680	0.02650
IA00308	0.69800	0.01168	-2.16916	0.05604	0.03280	0.03010
IA00311	0.92625	0.02001	0.95639	0.01366	0.17420	0.00410
IA00313	0.53621	0.01317	-0.77198	0.06322	0.18520	0.01960
IA00316	0.62579	0.01088	-0.88301	0.03709	0.04910	0.01430
IA00317	0.69740	0.01338	-1.11071	0.04309	0.13530	0.01740

**Table M-16: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–ELA Grade 8 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00319A	1.14199	0.01153	-0.65908	0.00692	1.19820	0.01542	0.06311	0.01001	-1.26131	0.00965	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00319D	1.15352	0.01083	0.55241	0.00719	2.38214	0.01483	1.28142	0.01001	-0.04147	0.00954	-1.32797	0.01542	-2.29412	0.02543	0.00000	0.00000
IA00569	0.66900	0.00659	-2.43696	0.01655	1.24300	0.03085	-1.24300	0.01201	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00591A	1.17877	0.01198	-0.70052	0.00688	1.23282	0.01566	-0.05251	0.00965	-1.18031	0.00930	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00591D	1.10281	0.01028	0.53282	0.00863	2.46816	0.01589	1.41783	0.01071	0.18183	0.00930	-1.22076	0.01472	-2.84706	0.03450	0.00000	0.00000
IA00593	0.32447	0.00439	0.54301	0.01463	1.03526	0.01672	-1.03526	0.02402	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00596	0.59550	0.00549	-0.23605	0.01011	1.41343	0.01554	-1.41343	0.01295	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00599A	1.29205	0.01373	-0.96978	0.00675	1.03926	0.01542	-0.09207	0.01013	-0.94719	0.00836	0.00000	0.00000	n/a	n/a	n/a	n/a
IA00599D	1.19713	0.01138	0.28465	0.00585	1.66227	0.01213	1.18485	0.01060	0.28876	0.00871	-1.06533	0.01201	-2.07056	0.01943	0.00000	0.00000
IA00600	0.46844	0.00509	-0.77410	0.01020	0.52699	0.01672	-0.52699	0.01166	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00689	0.49464	0.00519	-0.67903	0.00943	0.47501	0.01519	-0.47501	0.01118	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA00695	0.64370	0.00589	-1.42736	0.01187	1.36086	0.02190	-1.36086	0.00918	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a

**Table M-17: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 3 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02198	1.00982	0.02223	-0.95466	0.03322	0.15160	0.01740
IA00886	1.10838	0.02034	-1.24169	0.02807	0.06770	0.01730
IA02052	1.30525	0.02360	-0.46145	0.01676	0.17560	0.00840
IA02370	1.07753	0.01577	-1.42721	0.02478	0.01060	0.01570
IA00836	1.15345	0.01977	-0.46423	0.01687	0.09440	0.00830
IA00856	1.14214	0.02126	0.32032	0.01255	0.09710	0.00490
IA00996	0.66206	0.02537	1.76119	0.02900	0.09590	0.00540
IA02379	1.29732	0.03085	0.72417	0.01285	0.18380	0.00440
IA02348	1.08181	0.02434	0.60693	0.01440	0.16370	0.00520
IA02506	1.29051	0.01994	-0.45137	0.01316	0.05790	0.00630
IA02299	0.84214	0.04107	1.23723	0.02828	0.43690	0.00660
IA02179	0.86477	0.01645	0.02312	0.01841	0.06790	0.00750
IA02048	0.71845	0.01965	0.48312	0.02561	0.15960	0.00920
IA02295	0.79614	0.01720	-0.66374	0.03507	0.10340	0.01570
IA02029	1.06221	0.02126	-0.54208	0.02304	0.16360	0.01110
IA00927	0.53002	0.01959	0.62318	0.04309	0.12880	0.01410
IA02017	1.23104	0.01943	-0.88052	0.01728	0.04650	0.00950
IA02297	0.74501	0.01782	-0.81223	0.04648	0.12470	0.02040
IA02608	0.47100	0.02245	1.21419	0.04288	0.13650	0.01380
IA02103	0.65908	0.01766	-0.09576	0.03887	0.10870	0.01460
IA00925	0.77643	0.02308	-0.77521	0.05666	0.31420	0.02070
IA00999	1.00531	0.01251	-1.12610	0.01213	0.00000	0.00000
IA01991	0.84540	0.01011	-0.23727	0.00987	0.00000	0.00000
IA01979	0.69588	0.00942	-0.96248	0.01388	0.00000	0.00000
IA01074	0.55402	0.00800	0.67121	0.01491	0.00000	0.00000
IA00851	0.71154	0.00908	0.04194	0.01059	0.00000	0.00000
IA01001	0.81351	0.01109	1.06641	0.01388	0.00000	0.00000
IA02516	1.07022	0.01206	-0.39996	0.00884	0.00000	0.00000
IA01981	0.80808	0.01257	-1.72359	0.01985	0.00000	0.00000
IA01000	0.99583	0.01137	0.16699	0.00895	0.00000	0.00000
IA00997	0.42872	0.00755	0.35776	0.01594	0.00000	0.00000
IA00998	0.84397	0.01011	-0.45868	0.01028	0.00000	0.00000
IA01993	1.02342	0.01166	-0.22482	0.00895	0.00000	0.00000
IA01076	0.64897	0.01051	-2.10584	0.02787	0.00000	0.00000
IA01070	1.51099	0.01920	0.62061	0.00843	0.00000	0.00000
IA02382	0.65018	0.00920	-1.21783	0.01717	0.00000	0.00000

**Table M-18: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 3 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA01252	0.58755	0.00691	0.04212	0.01689	2.99616	0.03270	0.25028	0.01193	-3.24643	0.03682	0.00000	0.00000	n/a	n/a	n/a	n/a
IA02205	1.10175	0.00994	0.29842	0.00607	1.16187	0.00987	-0.09410	0.00874	-1.06777	0.01255	0.00000	0.00000	n/a	n/a	n/a	n/a
IA02375	1.09912	0.00994	-0.09538	0.00582	1.09931	0.01111	-0.06544	0.00833	-1.03386	0.01059	0.00000	0.00000	n/a	n/a	n/a	n/a
IA03471	0.89322	0.00868	0.35742	0.00819	1.23948	0.01121	0.54851	0.00915	-1.78798	0.01985	0.00000	0.00000	n/a	n/a	n/a	n/a

**Table M-19: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 3 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02198	1.22062	0.03769	-0.59302	0.03437	0.24050	0.01680
IA00886	1.14262	0.02886	-1.19675	0.04004	0.08490	0.02540
IA02081	0.91694	0.02790	-1.54341	0.07358	0.13830	0.04350
IA02052	1.24208	0.02966	-0.46516	0.02456	0.16370	0.01240
IA02196	1.53949	0.04754	1.01517	0.01445	0.12620	0.00420
IA02370	1.20781	0.02471	-1.41296	0.03313	0.01990	0.02330
IA00836	1.12224	0.02539	-0.39766	0.02384	0.09760	0.01170
IA02301	1.20006	0.03809	0.33383	0.02250	0.26990	0.00890
IA00856	1.14894	0.02755	0.27088	0.01693	0.08220	0.00710
IA00996	0.79608	0.03154	1.55326	0.02632	0.08610	0.00590
IA02033	1.12292	0.02921	-0.63028	0.03251	0.18920	0.01630
IA02379	1.13476	0.03666	0.73828	0.01981	0.20530	0.00710
IA02348	1.09275	0.03097	0.61619	0.01847	0.14230	0.00700
IA02506	1.17416	0.02528	-0.42615	0.02105	0.05370	0.01050
IA02299	1.31410	0.06354	1.07471	0.02270	0.40630	0.00630
IA02179	0.87703	0.02101	-0.06917	0.02590	0.05760	0.01110
IA02048	0.77592	0.02431	0.49255	0.02879	0.12720	0.01080
IA02295	0.80217	0.02437	-0.60768	0.05160	0.14530	0.02270
IA02029	1.02323	0.02613	-0.57042	0.03241	0.12250	0.01610
IA02230	1.13926	0.03467	-0.50644	0.03540	0.21770	0.01670
IA02368	0.94843	0.02408	-0.55112	0.03385	0.08370	0.01660
IA00927	0.54376	0.02391	0.52496	0.05686	0.11130	0.01900
IA02017	1.31899	0.02943	-0.82306	0.02487	0.08350	0.01430
IA02297	0.82665	0.02551	-0.59777	0.05243	0.19480	0.02250
IA02608	0.55822	0.03245	1.26780	0.04613	0.19300	0.01470
IA00928	1.25130	0.02516	-0.10694	0.01589	0.04840	0.00680
IA02103	0.68381	0.02249	-0.13151	0.05088	0.10050	0.01950
IA02200	1.02978	0.03205	-0.07155	0.03271	0.29280	0.01300
IA00925	0.78293	0.02921	-0.43316	0.06223	0.29180	0.02260
IA00999	0.92673	0.01452	-0.78209	0.01507	0.00000	0.00000
IA01001	0.82357	0.01492	1.05283	0.01682	0.00000	0.00000
IA02516	1.05586	0.01554	-0.14048	0.01146	0.00000	0.00000
IA01000	1.01959	0.01543	0.28976	0.01166	0.00000	0.00000
IA00998	0.84811	0.01332	-0.25937	0.01331	0.00000	0.00000
IA02177	0.53886	0.01082	-0.93730	0.02363	0.00000	0.00000
IA02382	0.60649	0.01161	-1.16022	0.02456	0.00000	0.00000

**Table M-20: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 3 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA03471	0.94820	0.01173	-0.02232	0.00933	1.09858	0.01620	0.52168	0.01280	-1.62026	0.01889	0.00000	0.00000				
IA02205	0.99249	0.01207	0.05897	0.00834	1.19256	0.01589	-0.01964	0.01146	-1.17292	0.01558	0.00000	0.00000				
IA01252	0.56818	0.00900	-0.32074	0.02224	2.83993	0.04995	0.28043	0.01858	-3.12037	0.04015	0.00000	0.00000				
IA02375	0.93869	0.01190	0.00255	0.01021	1.63378	0.01961	0.01104	0.01187	-1.64483	0.02033	0.00000	0.00000				

**Table M-21: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 4 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02137	0.98564	0.01584	-1.20273	0.02805	0.10590	0.01600
IA02247	1.52001	0.02038	0.00194	0.00848	0.10450	0.00370
IA02054	0.88135	0.02061	-1.43451	0.05711	0.38170	0.02380
IA02286	0.53594	0.01153	-0.64575	0.05085	0.03100	0.01900
IA02175	1.06774	0.01717	-0.94805	0.02270	0.16300	0.01220
IA02072	0.73205	0.01351	-0.07999	0.02260	0.08930	0.00910
IA01050	1.02407	0.01677	0.00780	0.01423	0.15680	0.00610
IA00867	0.72978	0.01561	-0.15768	0.02906	0.16960	0.01120
IA02207	1.31603	0.02183	-0.39309	0.01413	0.21000	0.00700
IA01045	0.77456	0.01456	0.76971	0.01332	0.07510	0.00460
IA02429	1.02186	0.01438	-0.24133	0.01382	0.11150	0.00630
IA02328	0.42047	0.00903	-2.71950	0.12320	0.05130	0.04680
IA02261	1.20836	0.02050	0.52169	0.01049	0.18600	0.00390
IA00840	0.94185	0.01642	0.04049	0.01614	0.16200	0.00670
IA02436	1.01935	0.01840	-0.87036	0.02613	0.22160	0.01280
IA02215	0.96928	0.01578	0.20516	0.01292	0.10840	0.00540
IA01046	0.67015	0.01316	-0.86683	0.04379	0.12170	0.01830
IA02086	0.74230	0.00792	-1.47012	0.01382	0.00000	0.00000
IA01084	0.97959	0.00897	-0.50792	0.00747	0.00000	0.00000
IA01085	1.48903	0.01264	-0.02520	0.00585	0.00000	0.00000
IA01995	0.96433	0.01019	-1.49979	0.01201	0.00000	0.00000
IA00913	0.84938	0.00832	0.33169	0.00777	0.00000	0.00000
IA01985	0.98745	0.00891	-0.48067	0.00726	0.00000	0.00000
IA01086	1.15258	0.01019	0.09720	0.00656	0.00000	0.00000
IA03467	1.08410	0.00938	-0.27261	0.00676	0.00000	0.00000
IA02046	0.75249	0.00745	-0.74423	0.00948	0.00000	0.00000
IA01082	0.77723	0.00780	-0.88550	0.00989	0.00000	0.00000
IA01089	0.96799	0.00938	0.95487	0.00938	0.00000	0.00000
IA02583	0.55504	0.00640	0.47054	0.01070	0.00000	0.00000
IA02580	1.12597	0.01007	0.01567	0.00666	0.00000	0.00000
IA02458	0.58415	0.00646	-0.06496	0.00938	0.00000	0.00000
IA01989	1.08259	0.01124	-1.41574	0.01059	0.00000	0.00000
IA01053	1.11106	0.01002	0.33906	0.00676	0.00000	0.00000
IA02585	1.03251	0.00903	-0.01612	0.00676	0.00000	0.00000

**Table M-22: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 4 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00794	0.89975	0.00717	-1.08148	0.00525	0.85128	0.01392	0.47643	0.01170	-0.55166	0.00757	-0.77607	0.00726	0.00000	0.00000	n/a	n/a
IA01056	1.10681	0.00751	0.17869	0.00400	1.24037	0.00827	0.27110	0.00646	-0.39456	0.00716	-1.11691	0.00969	0.00000	0.00000	n/a	n/a
IA01240	0.77456	0.00658	-0.97187	0.00788	0.82387	0.01372	-0.82387	0.00777	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA01242	1.38258	0.01043	-0.50983	0.00466	0.42490	0.00716	-0.42490	0.00595	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA02244	1.14577	0.00780	-0.48357	0.00392	1.13014	0.01029	0.23180	0.00706	-0.38582	0.00636	-0.97610	0.00696	0.00000	0.00000	n/a	n/a
IA02589	1.02844	0.00699	-0.08838	0.00456	1.51655	0.01049	0.54052	0.00716	-0.43441	0.00696	-1.62264	0.01110	0.00000	0.00000	n/a	n/a

**Table M-23: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 5 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02181	1.30278	0.01904	-1.73513	0.02625	0.02890	0.02280
IA02021	1.58657	0.02038	-0.78205	0.01056	0.06510	0.00630
IA02074	1.39158	0.02250	-1.43316	0.02248	0.08590	0.01760
IA02131	0.60352	0.01164	-2.05143	0.08109	0.05350	0.04240
IA02306	1.83819	0.03227	0.74396	0.00785	0.16660	0.00240
IA02388	1.02926	0.02432	0.37641	0.01753	0.36220	0.00590
IA02027	1.16475	0.02038	-0.32799	0.01744	0.28690	0.00780
IA02183	0.53267	0.01886	1.39817	0.02432	0.10080	0.00810
IA00873	1.31377	0.01965	0.04954	0.00998	0.13760	0.00460
IA02392	1.03515	0.01807	-1.34365	0.03429	0.16090	0.02140
IA02101	0.85496	0.01595	-0.95168	0.03526	0.15550	0.01760
IA02342	1.02131	0.01631	-0.72945	0.02131	0.13020	0.01130
IA02035	0.83749	0.01238	-0.98481	0.02713	0.02980	0.01460
IA01024	1.09173	0.01965	0.37350	0.01240	0.19380	0.00490
IA01021	0.98172	0.02444	1.24365	0.01366	0.14010	0.00350
IA02385	1.65770	0.03124	0.71199	0.00862	0.19950	0.00290
IA02127	0.58842	0.01674	0.40673	0.03352	0.14630	0.01170
IA02394	1.31820	0.01953	-0.89278	0.01618	0.11740	0.01010
IA02398	1.02095	0.01577	0.26064	0.01124	0.08870	0.00470
IA01022	0.98912	0.02905	0.89964	0.01657	0.35980	0.00480
IA02354	1.15450	0.01401	-0.59459	0.01182	0.02000	0.00600
IA01147	0.97092	0.00886	0.13838	0.00688	0.00000	0.00000
IA00891	0.97552	0.00892	-0.29030	0.00698	0.00000	0.00000
IA02264	0.80953	0.00801	0.26325	0.00785	0.00000	0.00000
IA03461	0.64081	0.00704	-0.82361	0.01095	0.00000	0.00000
IA01150	1.19471	0.01110	0.46912	0.00678	0.00000	0.00000
IA01987	0.77824	0.00801	-0.81169	0.00920	0.00000	0.00000
IA01148	1.22237	0.01061	0.00837	0.00610	0.00000	0.00000
IA01151	0.78170	0.00989	-1.87550	0.01783	0.00000	0.00000
IA02068	1.03369	0.00958	0.46224	0.00736	0.00000	0.00000
IA00890	0.90845	0.00940	-1.40604	0.01211	0.00000	0.00000
IA02015	0.61122	0.00661	-0.05131	0.00901	0.00000	0.00000
IA01146	0.93629	0.00837	-0.01943	0.00698	0.00000	0.00000
IA01983	1.01871	0.00952	-0.75192	0.00765	0.00000	0.00000

**Table M-24: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 5 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA01031	1.26100	0.00850	0.55287	0.00418	1.27272	0.00678	0.34425	0.00610	-0.37961	0.00765	-1.23736	0.01172	0.00000	0.00000	n/a	n/a
IA01238	1.07712	0.00850	-0.45126	0.00510	0.46322	0.00785	-0.46322	0.00649	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA01254	0.97486	0.00782	-0.49709	0.00567	0.58276	0.00901	-0.58276	0.00688	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA02251	0.96400	0.00698	-0.52477	0.00492	1.41535	0.01240	0.89831	0.00978	-0.79664	0.00707	-1.51703	0.00940	0.00000	0.00000	n/a	n/a
IA02493	1.16493	0.00855	0.53836	0.00374	0.84930	0.00630	0.06363	0.00659	-0.23001	0.00746	-0.68292	0.00920	0.00000	0.00000	n/a	n/a
IA02553	0.91003	0.00685	0.53071	0.00478	1.21724	0.00794	0.50907	0.00688	-0.58536	0.00969	-1.14094	0.01269	0.00000	0.00000	n/a	n/a

**Table M-25: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 6 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02050	1.36984	0.02558	-1.50099	0.02461	0.11360	0.01680
IA00846	0.86537	0.01403	-0.33236	0.01822	0.05680	0.00790
IA00882	1.47084	0.03030	0.97762	0.01037	0.11160	0.00260
IA02486	0.86285	0.01639	-0.84400	0.03079	0.14770	0.01430
IA02125	1.32798	0.02587	0.62505	0.01183	0.21470	0.00390
IA02467	1.05429	0.02098	-0.11948	0.01874	0.25780	0.00760
IA02146	0.70568	0.01470	-0.28472	0.02953	0.08130	0.01190
IA00967	1.49849	0.02806	-0.95050	0.01906	0.31960	0.01020
IA01060	0.70085	0.01397	-1.19197	0.04566	0.04090	0.02170
IA00964	0.96041	0.01885	-2.37955	0.05927	0.07170	0.04550
IA02465	1.62732	0.03871	1.26643	0.01141	0.14380	0.00230
IA02497	1.07291	0.02121	0.87982	0.01246	0.13180	0.00360
IA02123	1.50057	0.02278	-0.31969	0.01068	0.11520	0.00520
IA01997	0.76386	0.00853	-1.05794	0.01204	0.00000	0.00000
IA02445	1.04020	0.01105	-1.42852	0.01236	0.00000	0.00000
IA02499	0.78821	0.01050	1.40737	0.01592	0.00000	0.00000
IA02270	0.95491	0.00999	0.43289	0.00869	0.00000	0.00000
IA01123	0.68132	0.00886	-1.86906	0.01990	0.00000	0.00000
IA01127	1.03897	0.01071	-0.37142	0.00806	0.00000	0.00000
IA03469	0.63072	0.00814	-1.20454	0.01456	0.00000	0.00000
IA01129	0.56664	0.00701	-0.36598	0.01141	0.00000	0.00000
IA00974	1.21789	0.01251	-0.88484	0.00880	0.00000	0.00000
IA00966	1.15467	0.01200	0.47667	0.00806	0.00000	0.00000
IA02595	0.97433	0.00937	-0.08733	0.00806	0.00000	0.00000
IA01128	0.91766	0.00976	0.70767	0.00984	0.00000	0.00000
IA00896	0.95340	0.00970	-0.39477	0.00848	0.00000	0.00000
IA00965	0.98375	0.01010	-0.83803	0.00974	0.00000	0.00000
IA02460	1.17559	0.01206	0.45436	0.00796	0.00000	0.00000
IA01126	0.88231	0.00925	-0.31488	0.00859	0.00000	0.00000
IA02314	0.79405	0.00859	-0.63604	0.01005	0.00000	0.00000
IA02011	0.58274	0.00819	-2.12760	0.02545	0.00000	0.00000
IA02003	1.07050	0.01212	-1.45638	0.01215	0.00000	0.00000
IA02213	1.26918	0.01235	-0.14587	0.00723	0.00000	0.00000
IA01124	0.81032	0.00841	-0.38734	0.00911	0.00000	0.00000

**Table M-26: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 6 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA00788	1.20202	0.00876	-0.46506	0.00449	1.05194	0.01100	0.48889	0.00859	-0.32799	0.00723	-1.21283	0.00869	0.00000	0.00000	n/a	n/a
IA00977	1.44805	0.01089	0.59384	0.00432	1.20600	0.00743	0.09445	0.00733	-0.35676	0.00848	-0.94369	0.01089	0.00000	0.00000	n/a	n/a
IA02078	1.38533	0.01038	0.06783	0.00392	0.98984	0.00817	0.12636	0.00702	-0.17762	0.00712	-0.93859	0.00890	0.00000	0.00000	n/a	n/a
IA02501	1.34582	0.01145	1.14766	0.00533	0.83676	0.00712	0.37371	0.00817	-0.36181	0.01131	-0.84863	0.01445	0.00000	0.00000	n/a	n/a
IA03463	1.13182	0.00965	-0.14183	0.00562	0.47860	0.00806	-0.47860	0.00785	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA03465	0.97618	0.00903	-0.49446	0.00879	1.29962	0.01476	-1.29962	0.00953	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a

**Table M-27: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 6 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02050	1.31480	0.04772	-1.46083	0.04931	0.11970	0.03200
IA00846	0.79494	0.02397	-0.54025	0.04374	0.04120	0.01880
IA02273	0.80407	0.02566	-0.94929	0.05754	0.06840	0.02690
IA00882	1.43157	0.05617	0.96488	0.01992	0.13180	0.00550
IA02486	0.83754	0.02903	-0.87839	0.06144	0.14940	0.02740
IA02455	0.71919	0.04645	1.51694	0.04274	0.22270	0.01030
IA02153	1.09895	0.03210	-1.60018	0.05454	0.08250	0.03500
IA02125	1.30134	0.04344	0.59926	0.02182	0.18240	0.00710
IA02467	1.08797	0.04086	0.02494	0.03473	0.30000	0.01270
IA02146	0.82445	0.03199	-0.05720	0.04463	0.16420	0.01710
IA02449	1.30065	0.04893	-0.16517	0.03183	0.32730	0.01260
IA00967	1.20843	0.03843	-1.02675	0.04319	0.22900	0.02240
IA01060	0.67981	0.02476	-1.06437	0.08403	0.09010	0.03600
IA00964	0.81178	0.02729	-2.41336	0.10373	0.10810	0.06380
IA02465	1.64721	0.06804	1.24670	0.02037	0.13650	0.00440
IA02156	1.39467	0.03927	0.29173	0.02015	0.14980	0.00720
IA02497	1.22015	0.04492	0.81307	0.02182	0.14480	0.00660
IA02462	0.96244	0.03389	0.08549	0.03328	0.18530	0.01270
IA01061	1.17422	0.05976	0.65379	0.03205	0.40580	0.00930
IA02312	1.00556	0.03025	-0.62707	0.03940	0.14890	0.01800
IA02105	0.85797	0.02951	0.54160	0.02827	0.10940	0.00970
IA02123	1.56417	0.04762	-0.18409	0.02170	0.19350	0.00980
IA02275	1.17443	0.03906	0.48372	0.02315	0.17320	0.00810
IA02151	1.45902	0.03975	-0.58678	0.02426	0.14230	0.01200
IA02445	0.82666	0.01658	-1.30367	0.02560	0.00000	0.00000
IA02499	0.76986	0.01842	1.30858	0.02671	0.00000	0.00000
IA02270	0.92353	0.01863	0.61484	0.01759	0.00000	0.00000
IA02284	0.76263	0.01552	-0.51989	0.01992	0.00000	0.00000
IA02472	0.84530	0.02106	1.39573	0.02738	0.00000	0.00000
IA00974	0.95230	0.01795	-0.67949	0.01803	0.00000	0.00000
IA02595	1.02916	0.01842	0.08660	0.01536	0.00000	0.00000
IA00896	0.97410	0.01826	-0.22983	0.01614	0.00000	0.00000
IA00965	0.91218	0.01768	-0.68161	0.01903	0.00000	0.00000
IA02213	1.21735	0.02212	-0.07334	0.01447	0.00000	0.00000

**Table M-28: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 6 Paper**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA03463	1.06273	0.01726	-0.13011	0.01126	0.51266	0.01636	-0.51266	0.01547	0.00000	0.00000	nan	nan	nan	nan		
IA03465	1.04241	0.01758	-0.45633	0.01531	1.19739	0.02538	-1.19739	0.01714	0.00000	0.00000	nan	nan	nan	nan		
IA02078	1.35888	0.01932	-0.03928	0.00764	1.00194	0.01681	0.11765	0.01391	-0.14325	0.01380	-0.97634	0.01636	0.00000	0.00000		
IA00977	1.37218	0.01958	0.51923	0.00824	1.21275	0.01525	0.10128	0.01425	-0.34760	0.01580	-0.96644	0.02003	0.00000	0.00000		
IA00788	1.16129	0.01594	-0.57871	0.00904	1.02470	0.02237	0.54889	0.01825	-0.31871	0.01447	-1.25487	0.01625	0.00000	0.00000		
IA02501	1.20051	0.01863	1.14255	0.01013	0.84615	0.01436	0.37545	0.01603	-0.33655	0.02104	-0.88505	0.02716	0.00000	0.00000		

**Table M-29: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 7 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02149	0.83074	0.01385	-0.63745	0.02552	0.12560	0.01110
IA02407	1.11387	0.01861	-0.20882	0.01564	0.22480	0.00650
IA02415	0.50542	0.01488	1.37476	0.02346	0.07300	0.00710
IA02039	0.94956	0.01450	0.02803	0.01357	0.08160	0.00550
IA00954	1.07346	0.02288	0.49902	0.01412	0.26180	0.00490
IA02363	0.55450	0.01028	-0.79318	0.04442	0.01520	0.01710
IA02142	0.64961	0.01710	0.86315	0.02237	0.19770	0.00700
IA00843	1.27488	0.01964	0.46112	0.00999	0.15850	0.00350
IA02526	1.21033	0.02716	1.14171	0.01249	0.23170	0.00310
IA02135	1.26433	0.02175	0.45537	0.01086	0.19680	0.00390
IA02024	1.42994	0.02278	-0.70283	0.01433	0.19130	0.00740
IA02419	1.22900	0.01515	-0.00596	0.00923	0.05640	0.00340
IA02095	1.03579	0.03073	1.59293	0.01738	0.21400	0.00310
IA00911	0.91174	0.01586	0.41356	0.01325	0.10900	0.00490
IA00952	1.21510	0.03181	0.96252	0.01433	0.38430	0.00380
IA02612	1.51790	0.02251	0.81798	0.00858	0.09180	0.00210
IA01014	1.65446	0.04544	1.46359	0.01238	0.22370	0.00230
IA00944	2.01122	0.21252	2.38895	0.03931	0.31390	0.00210
IA02222	1.01605	0.01645	0.69211	0.01097	0.09680	0.00350
IA02423	0.99679	0.01374	-0.35684	0.01455	0.07560	0.00640
IA00948	1.41831	0.11205	-1.27981	0.09535	0.27180	0.05650
IA01099	0.95833	0.00866	-0.39094	0.00782	0.00000	0.00000
IA01104	0.88366	0.00822	-0.09924	0.00782	0.00000	0.00000
IA02005	1.26850	0.01131	-0.65559	0.00738	0.00000	0.00000
IA01999	1.08638	0.01022	-1.18761	0.00934	0.00000	0.00000
IA02528	1.23928	0.01093	-0.26952	0.00684	0.00000	0.00000
IA02013	0.92943	0.00941	-1.38439	0.01140	0.00000	0.00000
IA02413	0.85364	0.00817	0.21254	0.00804	0.00000	0.00000
IA01101	0.72492	0.00747	1.39029	0.01412	0.00000	0.00000
IA02530	0.94134	0.01142	1.60466	0.01466	0.00000	0.00000
IA02001	0.78720	0.00747	-0.36672	0.00847	0.00000	0.00000
IA02351	1.00187	0.00941	-0.90384	0.00891	0.00000	0.00000
IA01098	0.82794	0.00822	0.69732	0.00945	0.00000	0.00000
IA01103	0.84152	0.00903	0.99510	0.01086	0.00000	0.00000
IA01008	1.12447	0.01439	1.71021	0.01423	0.00000	0.00000

**Table M-30: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 7 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA01244	0.93230	0.00725	-0.05819	0.00599	0.73445	0.00836	-0.73445	0.00858	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA01246	1.03834	0.00785	0.13120	0.00573	0.74911	0.00760	-0.74911	0.00858	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA02118	1.32660	0.00903	0.25625	0.00399	1.16010	0.00749	0.60136	0.00652	-0.67412	0.00804	-1.08734	0.00956	0.00000	0.00000	n/a	n/a
IA02120	1.19800	0.00811	-0.16856	0.00447	1.77326	0.01129	0.24291	0.00684	-0.57809	0.00706	-1.43808	0.00977	0.00000	0.00000	n/a	n/a
IA02333	1.04262	0.00790	0.59595	0.00449	0.86308	0.00728	0.28404	0.00738	-0.22029	0.00858	-0.92683	0.01184	0.00000	0.00000	n/a	n/a
IA02421	1.29441	0.00909	0.33195	0.00376	0.91141	0.00684	0.17978	0.00662	-0.18315	0.00706	-0.90804	0.00923	0.00000	0.00000	n/a	n/a

**Table M-31: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Dichotomous Items
–Mathematics Grade 8 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>					
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
IA02091	0.92119	0.02208	-0.70401	0.03691	0.46320	0.01160
IA02185	1.09054	0.01839	-0.30981	0.01750	0.23580	0.00710
IA02239	1.36645	0.02775	0.82938	0.01078	0.24580	0.00330
IA02237	1.46636	0.02087	-0.11564	0.01078	0.22990	0.00470
IA02319	1.23539	0.02627	1.02749	0.01142	0.20750	0.00310
IA02559	1.14187	0.02225	0.73720	0.01142	0.19170	0.00380
IA02163	0.98420	0.01580	-0.21571	0.01686	0.15810	0.00680
IA02358	2.10460	0.04483	0.93052	0.00896	0.27150	0.00250
IA02282	1.18147	0.01481	-0.34651	0.01120	0.08920	0.00500
IA02561	1.92919	0.04571	1.15776	0.00992	0.25390	0.00240
IA02234	1.57556	0.02875	0.70733	0.00939	0.22330	0.00300
IA02480	1.01659	0.01906	-0.99686	0.02977	0.30970	0.01320
IA02113	0.45886	0.00760	-3.24398	0.08033	0.02320	0.03320
IA02563	0.81122	0.01388	0.02700	0.01824	0.11430	0.00720
IA02167	0.70890	0.01272	-0.79651	0.03531	0.10830	0.01490
IA02043	0.81518	0.01680	-0.51998	0.03126	0.26570	0.01170
IA02165	0.66929	0.01239	-1.08712	0.04331	0.04720	0.01950
IA02109	1.37670	0.02319	-0.37979	0.01376	0.26260	0.00630
IA02066	1.03861	0.01404	-1.31735	0.02230	0.02920	0.01340
IA02191	1.59253	0.02710	0.70712	0.00907	0.18800	0.00280
IA02325	1.16500	0.02197	0.63735	0.01152	0.21180	0.00390
IA02059	1.04869	0.04202	0.93084	0.02336	0.63480	0.00410
IA02482	0.59979	0.01911	0.45502	0.03894	0.33420	0.01040
IA02063	0.86640	0.00743	0.39240	0.00821	0.00000	0.00000
IA02360	0.92753	0.00986	1.09833	0.01056	0.00000	0.00000
IA02009	0.76237	0.00722	-0.83897	0.00982	0.00000	0.00000
IA01116	1.12882	0.01002	-0.41938	0.00704	0.00000	0.00000
IA03475	1.15509	0.00992	-0.71297	0.00757	0.00000	0.00000
IA01115	1.06973	0.00898	0.17508	0.00704	0.00000	0.00000
IA02225	0.81535	0.00782	-0.89157	0.00950	0.00000	0.00000
IA01120	0.82251	0.00815	0.65292	0.00928	0.00000	0.00000
IA03473	1.09688	0.01129	-1.52837	0.01120	0.00000	0.00000
IA02007	0.98194	0.00920	-0.95760	0.00896	0.00000	0.00000
IA02495	0.84597	0.00771	0.24613	0.00800	0.00000	0.00000

**Table M-32: 2018 Next-Generation MCAS and MCAS Alt: IRT Parameters for Polytomous Items
–Mathematics Grade 8 Online**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>															
	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>d0</i>	<i>SE (d0)</i>	<i>d1</i>	<i>SE(d1)</i>	<i>d2</i>	<i>SE(d2)</i>	<i>d3</i>	<i>SE(d3)</i>	<i>d4</i>	<i>SE(d4)</i>	<i>d5</i>	<i>SE(d5)</i>
IA01248	0.54621	0.00507	-0.25311	0.01080	1.39070	0.01664	-1.39070	0.01376	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA01250	0.82950	0.00666	-0.56319	0.00680	0.80814	0.01099	-0.80814	0.00800	0.00000	0.00000	n/a	n/a	n/a	n/a	n/a	n/a
IA02188	1.30346	0.00848	-0.59325	0.00431	1.57843	0.01259	0.16741	0.00693	-0.54066	0.00629	-1.20521	0.00715	0.00000	0.00000	n/a	n/a
IA02484	1.59782	0.01107	0.07042	0.00322	0.72738	0.00651	0.20324	0.00597	-0.18915	0.00608	-0.74146	0.00715	0.00000	0.00000	n/a	n/a
IA02557	1.40600	0.00904	0.03044	0.00379	1.26415	0.00811	0.44672	0.00629	-0.45125	0.00661	-1.25960	0.00896	0.00000	0.00000	n/a	n/a
IA02565	0.98629	0.00678	-0.01416	0.00462	1.46717	0.01014	0.42261	0.00715	-0.43087	0.00757	-1.45889	0.01142	0.00000	0.00000	n/a	n/a