

APPENDIX H

ITEM RESPONSE THEORY PARAMETERS

**Table H-1. 2013 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 3**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
276946	0.68533	0.01594	-1.35641	0.05327	0.51296	0.01282	296948	1.24674	0.01750	-1.49540	0.01740	0.24186	0.00891
276949	0.78523	0.01506	-1.12466	0.03532	0.42140	0.01094	284956	0.84313	0.01340	-0.86091	0.02371	0.28123	0.00911
276955	0.48617	0.00579	-2.09424	0.02196	0.00000	0.00000	284958	1.23036	0.01993	-1.95597	0.02281	0.27340	0.01062
276958	1.26134	0.01831	-1.54434	0.01820	0.26445	0.00923	284959	0.89776	0.01666	-1.97059	0.03787	0.38993	0.01327
276960	1.28769	0.02270	0.02693	0.01262	0.38072	0.00509	284961	0.66909	0.01293	-0.60274	0.03160	0.28917	0.01005
276961	1.17296	0.01593	-0.77055	0.01449	0.24844	0.00708	284963	1.10253	0.01800	-1.32780	0.02339	0.39157	0.00974
276966	1.31246	0.01898	-0.41248	0.01233	0.29843	0.00592	284966	1.30302	0.01941	-1.74566	0.01863	0.24172	0.00947
276969	1.12728	0.01510	-1.10448	0.01638	0.23067	0.00804	284968	0.59303	0.01285	-0.20046	0.03177	0.24216	0.00968
276972	1.10583	0.01646	-1.23475	0.02011	0.31542	0.00912	284971	0.97414	0.01501	-1.40740	0.02443	0.31122	0.01020
297166	1.05855	0.01612	-1.07531	0.02056	0.33062	0.00888	284974	0.92686	0.01238	-1.04203	0.01842	0.18322	0.00817
265934	1.10751	0.01705	-0.61260	0.01687	0.32830	0.00726	284972	1.76597	0.02320	-1.01701	0.01003	0.22029	0.00636
265939	1.41400	0.02196	-1.39367	0.01740	0.34421	0.00895	292631	0.71660	0.01281	-0.82600	0.03030	0.29293	0.01019
265942	1.19837	0.01949	-1.74479	0.02312	0.33596	0.01053	292634	0.82598	0.01351	-0.94764	0.02589	0.30242	0.00962
265940	0.61152	0.00670	-2.10650	0.01888	0.00000	0.00000	292630	1.22766	0.01747	-0.14381	0.01095	0.23263	0.00517
265946	1.32944	0.01730	-0.82896	0.01252	0.23189	0.00669	292637	1.22227	0.01761	-0.11912	0.01100	0.23675	0.00515
268487	1.02553	0.01396	-0.77457	0.01608	0.21871	0.00739	292639	0.95629	0.01225	-1.17111	0.01753	0.15695	0.00798
296935	0.82298	0.01230	-0.65347	0.02004	0.20417	0.00803							
296938	1.18934	0.01770	-1.71403	0.02044	0.25682	0.00985							
296939	0.85053	0.01245	-0.96640	0.02178	0.22406	0.00889							
296940	1.43553	0.01800	-0.41537	0.00938	0.19822	0.00509							

**Table H-2. 2013 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 3**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
265953	0.43241	0.00227	-1.92545	0.01247	3.48645	0.03086	-3.48645	0.01256	0	0				
286598	0.51969	0.00243	-0.86087	0.00870	1.82070	0.01377	-1.82070	0.00994	0	0				
286599	0.31274	0.00154	-1.33793	0.01375	2.21715	0.02012	-2.21715	0.01518	0	0				
296952	0.45098	0.00270	-2.47847	0.01073	2.08524	0.02399	-2.08524	0.01055	0	0				
276979	0.67261	0.00254	0.1412	0.00628	3.40564	0.01595	0.90483	0.00768	-0.97582	0.00839	-3.33464	0.02163	0	0

**Table H-3. 2013 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 4**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
298610	0.41133	0.00506	-1.42185	0.01947	0.00000	0.00000	285439	0.43515	0.00907	-1.55559	0.08224	0.08993	0.02581
298613	1.06804	0.01745	-0.88622	0.02290	0.35164	0.00953	297762	0.62979	0.01165	-0.85110	0.04141	0.19984	0.01442
298614	0.88435	0.01341	-1.58835	0.03182	0.16432	0.01560	297767	0.74656	0.01253	-0.76696	0.03074	0.22524	0.01158
298609	0.68038	0.01203	-0.70561	0.03442	0.21217	0.01229	297763	0.71062	0.01169	-1.23702	0.03788	0.16883	0.01539
298621	0.92678	0.01333	-1.22508	0.02483	0.17220	0.01176	297773	0.71494	0.01078	-0.72557	0.02654	0.11834	0.01053
298618	0.73112	0.01223	-1.07873	0.03560	0.20540	0.01398	297776	0.42784	0.01460	-0.55744	0.10481	0.37537	0.02125
291300	0.59420	0.00622	-1.62782	0.01587	0.00000	0.00000	297777	0.63401	0.00710	-2.15983	0.01978	0.00000	0.00000
291304	1.28791	0.01870	-1.59636	0.01960	0.16850	0.01157	297766	0.46012	0.00532	-1.46519	0.01806	0.00000	0.00000
291306	0.84239	0.01211	-1.41575	0.02886	0.12452	0.01369	297783	0.47863	0.01204	0.04329	0.04918	0.19299	0.01345
291307	0.65104	0.00941	-0.84377	0.02777	0.06030	0.01080	297780	0.63890	0.00853	-2.90829	0.02941	0.00000	0.00000
291310	1.06293	0.01526	-0.47249	0.01623	0.24238	0.00717	297781	0.71622	0.01147	-1.80785	0.04470	0.11742	0.02061
291308	1.14985	0.01544	-1.25204	0.01825	0.15828	0.00975	291187	0.37442	0.00816	-1.64513	0.09671	0.07797	0.02708
291313	0.55648	0.00567	-1.11645	0.01306	0.00000	0.00000	291188	0.34610	0.00490	-1.84252	0.02748	0.00000	0.00000
291316	0.55409	0.00609	-1.80088	0.01826	0.00000	0.00000	291195	0.74677	0.01059	-1.90865	0.03620	0.06526	0.01751
291321	0.59406	0.00634	-1.76693	0.01701	0.00000	0.00000	291203	0.50160	0.00612	-2.24025	0.02449	0.00000	0.00000
291324	0.49766	0.00872	-1.16835	0.05068	0.06334	0.01718	291208	0.67148	0.01230	-0.86216	0.03919	0.23457	0.01378
285428	1.00194	0.01442	-0.89661	0.02049	0.22008	0.00938							
285434	0.82582	0.01217	-0.72155	0.02310	0.16940	0.00964							
285435	0.76943	0.01115	-0.93032	0.02598	0.12180	0.01098							
285438	0.70532	0.01059	-0.82649	0.02786	0.10889	0.01115							

**Table H-4. 2013 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 4**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
285443	0.76181	0.00292	0.34378	0.00574	3.47786	0.01603	0.93703	0.00717	-1.18770	0.00821	-3.22719	0.01955	0	0
291326	0.76363	0.00288	0.39918	0.00553	2.78053	0.01169	0.67495	0.00686	-0.92929	0.00774	-2.52619	0.01405	0	0
297788	0.79693	0.00302	0.51228	0.00532	2.64790	0.01052	0.76443	0.00663	-0.90761	0.00772	-2.50471	0.01472	0	0
298623	0.78654	0.00302	-0.23358	0.00560	3.37071	0.02012	1.09175	0.00816	-1.16101	0.00704	-3.30146	0.01512	0	0
299646C	0.90913	0.00380	-1.90913	0.00476	3.53738	0.07346	2.57513	0.03708	-0.22255	0.00853	-0.82062	0.00702	-2.24422	0.00589
299646T	0.86459	0.00299	0.45929	0.00475	4.58228	0.02844	3.96733	0.01984	2.24129	0.00896	1.70375	0.00753	0.23895	0.00608

Item Number	Parameters and Measures of Standard Error											
	D5	SE (D5)	D6	SE (D6)	D7	SE (D7)	D8	SE (D8)	D9	SE (D9)	D10	SE (D10)
285443												
291326												
297788												
298623												
299646C	-2.82511	0.00633	0	0								
299646T	-0.21105	0.00626	-1.50698	0.00885	-2.21662	0.01230	-3.81583	0.03225	-4.98311	0.07327	0	0

Table H-5. 2013 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 5

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
291605	1.00968	0.02166	-1.35591	0.03999	0.54584	0.01237	276287	0.92486	0.01407	-0.73035	0.02220	0.25951	0.00907
291606	0.74570	0.01620	0.25383	0.02558	0.36549	0.00739	296712	0.85554	0.01474	-1.64443	0.03990	0.27466	0.01726
291607	0.45330	0.01043	-0.29573	0.05271	0.11250	0.01509	296715	0.88422	0.01357	-0.73905	0.02341	0.24832	0.00942
291611	0.33380	0.01254	-0.40003	0.12968	0.18806	0.02714	296719	0.84673	0.01402	0.54167	0.01373	0.17685	0.00503
291613	0.77213	0.01345	-1.14893	0.03687	0.28317	0.01380	296726	0.63106	0.01264	-0.05618	0.03087	0.23573	0.00964
298382	0.75985	0.01275	-1.85784	0.04628	0.17770	0.02108	296729	0.73847	0.01220	-0.03303	0.02091	0.18275	0.00753
298397	0.34426	0.00465	-1.24324	0.02075	0.00000	0.00000	296727	0.32917	0.00480	-1.96699	0.02989	0.00000	0.00000
298388	0.70258	0.01148	-1.60005	0.04326	0.14672	0.01841	296730	0.66646	0.01178	-2.05737	0.05964	0.14851	0.02636
298390	0.75758	0.01151	-1.47054	0.03483	0.13331	0.01535	296737	0.65657	0.01154	-1.30225	0.04509	0.18741	0.01701
298394	0.80513	0.01542	0.47751	0.01799	0.27045	0.00599	296739	0.53934	0.01092	-2.01509	0.08272	0.15215	0.03088
298393	0.51251	0.00560	-1.62900	0.01760	0.00000	0.00000	296741	0.64308	0.01088	-1.34428	0.04404	0.14292	0.01711
298398	0.93463	0.01450	-1.54320	0.03049	0.21767	0.01444	284382	0.74115	0.01223	-0.25207	0.02345	0.20075	0.00847
298401	0.70944	0.01149	-2.02223	0.04903	0.11484	0.02297	284384	0.75347	0.01177	-0.14501	0.02021	0.16110	0.00754
298402	0.39081	0.00503	-1.78383	0.02374	0.00000	0.00000	284385	0.85230	0.01361	-1.69312	0.03661	0.19634	0.01713
298404	0.94818	0.01372	-0.65517	0.01962	0.22642	0.00831	284388	0.86734	0.01314	-1.12676	0.02728	0.21400	0.01171
276285	1.03705	0.01424	-0.25516	0.01417	0.20439	0.00613	284390	0.82590	0.01315	-0.95097	0.02847	0.24505	0.01130
276273	0.82244	0.01316	-1.51152	0.03563	0.20711	0.01572							
276276	0.81928	0.01344	-0.89011	0.02913	0.26898	0.01115							
276280	0.41823	0.01352	0.12455	0.07058	0.25206	0.01623							
276284	0.67534	0.01276	-1.42085	0.05107	0.26278	0.01850							

**Table H-6. 2013 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 5**

<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>
276290	0.92037	0.00354	0.45722	0.00474	2.64296	0.01023	0.76864	0.00602	-1.05642	0.00725	-2.35518	0.01339	0	0
291620	0.89012	0.00345	-0.39527	0.00495	2.81340	0.01632	1.09137	0.00800	-1.06165	0.00616	-2.84311	0.01100	0	0
296745	0.90469	0.00347	-0.47623	0.0047	2.37647	0.01369	0.79953	0.00740	-0.81308	0.00590	-2.36292	0.00844	0	0
298405	0.89728	0.00344	-0.27607	0.00485	2.78546	0.01518	0.92481	0.00731	-1.00861	0.00616	-2.70166	0.01085	0	0

**Table H-7. 2013 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 6**

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>						<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>		<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
286528	0.80843	0.01420	-2.09091	0.05049	0.23192	0.02322	277439	0.77399	0.01183	-0.34962	0.02307	0.20249	0.00853
286530	0.69946	0.01155	-0.17513	0.02529	0.19718	0.00872	297890	0.32590	0.00476	-2.24989	0.03477	0.00000	0.00000
286531	0.84263	0.01575	-2.36190	0.05680	0.24666	0.02767	297891	0.62298	0.00625	-1.65095	0.01585	0.00000	0.00000
286536	0.47235	0.00580	-2.38495	0.02745	0.00000	0.00000	297895	0.46255	0.00538	-1.91218	0.02255	0.00000	0.00000
286526	0.67598	0.01151	-1.17834	0.04194	0.22194	0.01526	297896	0.74755	0.01218	-0.80439	0.03160	0.24881	0.01146
298523	0.77263	0.01261	-1.22896	0.03620	0.25338	0.01403	297900	0.63585	0.00795	-2.80361	0.02737	0.00000	0.00000
298532	0.60266	0.01459	1.14972	0.02137	0.20660	0.00640	297903	1.02017	0.01442	-0.47140	0.01766	0.25406	0.00740
298533	0.80191	0.01292	-0.72419	0.02855	0.27567	0.01045	297905	0.44569	0.00640	-3.17694	0.04086	0.00000	0.00000
298535	0.67329	0.01168	0.50986	0.01877	0.14395	0.00639	297906	0.48702	0.01431	0.11399	0.05974	0.36079	0.01312
298536	0.56381	0.01039	-0.01545	0.03105	0.13424	0.00985	297909	0.65752	0.01161	-1.20322	0.04545	0.23591	0.01605
298537	0.48763	0.00565	-2.06959	0.02322	0.00000	0.00000	297911	0.73662	0.01148	-0.61974	0.02777	0.20200	0.01023
298540	0.56070	0.01257	0.08540	0.03882	0.26390	0.01072	287623	0.77915	0.01159	-1.00553	0.02904	0.18729	0.01167
298541	0.52499	0.01086	0.17225	0.03450	0.14968	0.01029	280348	0.82178	0.01312	0.12737	0.01848	0.22705	0.00664
298528	0.81970	0.01286	-0.02013	0.01955	0.22756	0.00710	280351	0.48414	0.01356	0.38405	0.04877	0.28568	0.01182
298551	1.01501	0.01444	-0.61520	0.01893	0.25868	0.00801	280359	0.87784	0.01458	-1.25240	0.03331	0.31977	0.01308
277409	0.69009	0.01347	-0.54621	0.03822	0.35014	0.01137	280360	0.73321	0.01482	0.20355	0.02632	0.34398	0.00774
277411	1.15687	0.01489	0.20909	0.01026	0.17313	0.00444							
304479	0.71628	0.00829	-2.50578	0.02178	0.00000	0.00000							
277425	0.44062	0.01112	-0.54313	0.07240	0.20248	0.01861							
277435	1.02217	0.01361	-0.52355	0.01651	0.20464	0.00723							

**Table H-8. 2013 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 6**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
277458	0.81495	0.00310	-0.35209	0.00529	2.80446	0.01654	1.13761	0.00867	-1.01484	0.00648	-2.92724	0.01099	0	0
286541	0.75701	0.00296	-1.23415	0.00575	2.92091	0.02657	1.20478	0.01231	-0.90434	0.00708	-3.22135	0.00896	0	0
297918	0.69511	0.00261	-0.60459	0.00609	3.27421	0.02267	0.97376	0.00959	-0.95450	0.00726	-3.29347	0.01198	0	0
298553	0.92884	0.00353	0.30047	0.00462	2.54034	0.01092	0.83157	0.00633	-0.88061	0.00628	-2.49129	0.01208	0	0

**Table H-9. 2013 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 7**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
279203	0.75878	0.01257	-0.08583	0.02182	0.15550	0.00875	292183	0.76233	0.01541	-0.69124	0.03954	0.35110	0.01366
279211	0.45437	0.00553	-1.08071	0.01646	0.00000	0.00000	292184	0.49486	0.00625	-1.87363	0.02324	0.00000	0.00000
279213	1.02109	0.02019	-0.76477	0.03096	0.48032	0.01090	292190	0.73544	0.01307	-0.53296	0.03159	0.21274	0.01229
279215	0.93913	0.01449	-0.41999	0.02044	0.23071	0.00902	292188	0.47513	0.00606	-1.80018	0.02310	0.00000	0.00000
279217	0.75757	0.01509	-0.85158	0.04204	0.33469	0.01508	292193	1.02141	0.01520	-1.40394	0.02717	0.16565	0.01514
279219	0.74511	0.01283	0.01755	0.02196	0.16456	0.00858	292194	1.21997	0.01692	-0.39185	0.01399	0.23718	0.00712
279206	0.95497	0.01748	-1.68238	0.04320	0.29207	0.02169	292197	1.43199	0.01945	-0.65832	0.01307	0.24167	0.00749
292135	0.87483	0.01391	-1.73626	0.03892	0.13409	0.02141	292198	0.36715	0.00519	-1.15008	0.02062	0.00000	0.00000
292138	0.45513	0.00655	-2.45179	0.03328	0.00000	0.00000	292202	1.00906	0.01617	-0.71630	0.02340	0.29606	0.01050
292146	0.58611	0.01217	-1.02045	0.05760	0.17932	0.02080	292203	0.67522	0.00722	-1.60734	0.01583	0.00000	0.00000
293602	0.51866	0.01316	-0.19668	0.05408	0.20454	0.01613	292074	0.69781	0.01254	-1.04042	0.04243	0.18579	0.01735
292148	0.58284	0.00681	-1.82647	0.01997	0.00000	0.00000	292063	0.75340	0.01345	-0.78184	0.03532	0.23505	0.01405
292149	0.94841	0.01443	-0.39314	0.01962	0.22305	0.00874	292067	0.50177	0.01035	-0.45777	0.04757	0.07728	0.01585
292140	1.12609	0.01622	-1.16326	0.02163	0.19432	0.01203	292072	0.64267	0.01235	-0.86622	0.04547	0.18672	0.01714
293604	0.73058	0.01399	0.07236	0.02504	0.22562	0.00909	292071	0.70872	0.01216	-1.45593	0.04673	0.13869	0.02134
286374	1.11597	0.01942	-1.43084	0.03130	0.32423	0.01602	292073	0.90682	0.01381	-0.10671	0.01734	0.18695	0.00752
286375	0.91654	0.01522	-0.83130	0.02808	0.28190	0.01221							
286376	0.46434	0.00563	-1.19253	0.01713	0.00000	0.00000							
286382	0.36133	0.00524	-1.36956	0.02340	0.00000	0.00000							
286379	0.80412	0.01224	-0.65054	0.02513	0.14468	0.01110							

**Table H-10. 2013 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 7**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
279229	0.98518	0.00389	-0.88033	0.00451	2.21112	0.01755	1.04197	0.00936	-0.61594	0.00555	-2.63715	0.00758	0.00000	0.00000
286385	1.04984	0.00407	-0.22038	0.00419	2.59318	0.01502	0.87209	0.00655	-0.88120	0.00526	-2.58407	0.01026	0.00000	0.00000
292155	1.11924	0.00431	-0.10667	0.00389	2.24311	0.01146	0.80641	0.00594	-0.73353	0.00499	-2.31599	0.00923	0.00000	0.00000
292207	1.00598	0.00391	-0.55845	0.00436	2.48632	0.01716	0.91799	0.00769	-0.75060	0.00528	-2.65371	0.00885	0.00000	0.00000
299669C	1.13146	0.00478	-1.78656	0.00388	2.84427	0.06329	2.22497	0.03718	-0.04663	0.00836	-0.56250	0.00660	-1.93693	0.00480
299669T	1.09793	0.00382	0.41498	0.00375	4.00554	0.02623	3.61481	0.01980	2.14911	0.00836	1.65678	0.00672	0.30184	0.00489

Item Number	Parameters and Measures of Standard Error													
	D5	SE (D5)	D6	SE (D6)	D7	SE (D7)	D8	SE (D8)	D9	SE (D9)	D10	SE (D10)		
279229														
286385														
292155														
292207														
299669C	-2.52318	0.00503	0.00000	0.00000										
299669T	-0.24062	0.00502	-1.45266	0.00755	-2.17785	0.01189	-3.69352	0.04162	-4.16344	0.06339	0.00000	0.00000		

**Table H-11. 2013 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 8**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
297280	0.51618	0.00570	-1.56002	0.01803	0.00000	0.00000	283152	0.62311	0.00684	-1.98863	0.01928	0.00000	0.00000
297283	0.59301	0.01207	-1.02563	0.05583	0.23288	0.01859	283158	0.84553	0.01467	-1.66414	0.04362	0.24867	0.02002
297318	1.09280	0.01624	-0.51011	0.01796	0.29884	0.00782	283154	0.84107	0.01364	-2.30169	0.04802	0.10884	0.02764
297302	0.74189	0.01140	0.21987	0.01720	0.11922	0.00652	283157	0.77136	0.01409	0.16566	0.02230	0.27033	0.00762
297314	0.64537	0.01304	-1.78193	0.07089	0.24382	0.02765	288162	0.91595	0.01430	-0.84515	0.02574	0.26994	0.01079
297321	0.81432	0.01287	-0.15010	0.02089	0.21568	0.00798	283164	0.88120	0.01298	0.26269	0.01422	0.16320	0.00568
297326	0.97054	0.01578	-0.74813	0.02484	0.33356	0.00996	283161	0.61992	0.01200	-0.46516	0.03917	0.21995	0.01288
283138	0.63694	0.01087	-1.20487	0.04493	0.13477	0.01765	271489	0.47594	0.00551	-1.62093	0.01985	0.00000	0.00000
283142	1.15520	0.01552	-0.10563	0.01247	0.22074	0.00571	271490	0.49584	0.01040	-1.30319	0.07319	0.12775	0.02441
283149	0.51112	0.01039	-0.89005	0.05778	0.12363	0.01891	271494	0.71629	0.01126	-0.89860	0.03225	0.14922	0.01299

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
272833	0.46796	0.00567	-1.93196	0.02337	0.00000	0.00000
283709	0.32840	0.00489	-1.91043	0.03111	0.00000	0.00000
283712	0.75638	0.01352	-1.92663	0.05548	0.19609	0.02612
283718	0.75359	0.01085	-3.03539	0.03073	0.00000	0.00000
283723	0.85612	0.01530	-0.83302	0.03253	0.36164	0.01172
285915	0.72491	0.00787	-2.08437	0.01818	0.00000	0.00000
283730	0.57358	0.01202	-0.49400	0.04657	0.22441	0.01448
283732	0.58198	0.00658	-2.04565	0.02088	0.00000	0.00000

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
283740	0.69053	0.01123	-1.61684	0.04643	0.11971	0.02068
283744	0.73754	0.01443	-0.09481	0.02911	0.32689	0.00922
283741	0.41742	0.01121	-1.65491	0.12856	0.17591	0.03690
298271	0.81504	0.01859	-1.82716	0.06811	0.46716	0.02335
298260	0.60940	0.01135	-0.17590	0.03232	0.16328	0.01088
298269	0.57924	0.01076	-0.22555	0.03410	0.13000	0.01147
298262	0.71910	0.01177	0.07395	0.02101	0.15647	0.00773
298273	0.42963	0.00502	-0.98939	0.01603	0.00000	0.00000

Table H-12. 2013 MCAS: IRT Parameters for Polytomous Items – ELA Grade 8

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
271501	1.00342	0.00390	-0.64174	0.00426	2.25674	0.01481	0.81312	0.00766	-0.72917	0.00539	-2.34069	0.00706	0.00000	0.00000
283753	0.94599	0.00376	-0.98924	0.00452	2.35333	0.01892	0.78553	0.00886	-0.77140	0.00578	-2.36746	0.00655	0.00000	0.00000
285914	1.06738	0.00417	-0.54287	0.00399	2.08638	0.01278	0.70514	0.00692	-0.71528	0.00512	-2.07624	0.00641	0.00000	0.00000
297338	0.96424	0.00372	-0.59835	0.00445	2.28292	0.01469	0.89431	0.00790	-0.68643	0.00556	-2.49080	0.00779	0.00000	0.00000

Table H-13. 2013 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 10

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
296572	1.02503	0.00000	0.05037	0.00000	0.23912	0.00000
296577	1.44702	0.00000	-0.04896	0.00000	0.17881	0.00000
296579	1.71757	0.00000	-0.24833	0.00000	0.27492	0.00000
296584	0.56198	0.00000	0.34910	0.00000	0.16813	0.00000
296576	1.07796	0.00000	0.09242	0.00000	0.19651	0.00000
296587	0.82725	0.00000	0.15792	0.00000	0.15690	0.00000
296569	1.08292	0.00000	0.18901	0.00000	0.17651	0.00000
296590	1.24835	0.00000	0.26216	0.00000	0.16818	0.00000
299007	0.80139	0.00000	0.42568	0.00000	0.17056	0.00000

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
299010	1.08945	0.00000	0.56084	0.00000	0.19187	0.00000
299014	1.36715	0.00000	0.57395	0.00000	0.22491	0.00000
299017	2.08258	0.00000	0.63402	0.00000	0.23130	0.00000
293543	0.77719	0.00000	0.00443	0.00000	0.15836	0.00000
293546	0.63609	0.00000	0.20236	0.00000	0.24357	0.00000
293553	1.34193	0.00000	0.86781	0.00000	0.35425	0.00000
293554	0.93220	0.00000	0.55210	0.00000	0.20625	0.00000
287071	0.53552	0.00000	0.35530	0.00000	0.22523	0.00000
287074	1.32551	0.00000	0.19569	0.00000	0.24991	0.00000

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
287078	0.92799	0.00000	-0.05100	0.00000	0.20615	0.00000
287079	1.80545	0.00000	0.52716	0.00000	0.24215	0.00000
287082	0.92685	0.00000	0.16708	0.00000	0.15613	0.00000
287086	0.93928	0.00000	0.28452	0.00000	0.15478	0.00000
287085	0.79535	0.00000	0.77616	0.00000	0.44951	0.00000
287077	2.02056	0.00000	0.58122	0.00000	0.20313	0.00000
298792	1.13137	0.00000	0.33716	0.00000	0.25206	0.00000
298794	1.77549	0.00000	0.77215	0.00000	0.26011	0.00000
298796	1.78670	0.00000	0.70572	0.00000	0.19152	0.00000

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
298798	1.42893	0.00000	0.80383	0.00000	0.29067	0.00000
298799	1.11240	0.00000	0.84767	0.00000	0.20633	0.00000
298800	1.85586	0.00000	0.78854	0.00000	0.24881	0.00000
298806	1.55503	0.00000	0.55232	0.00000	0.29939	0.00000
298495	1.49773	0.00000	0.56072	0.00000	0.16730	0.00000
298497	0.95081	0.00000	0.70850	0.00000	0.09457	0.00000
298491	1.55889	0.00000	0.47182	0.00000	0.22419	0.00000
298492	1.35167	0.00000	-0.10714	0.00000	0.18704	0.00000
298493	1.38855	0.00000	0.49556	0.00000	0.20013	0.00000

Table H-14. 2013 MCAS: IRT Parameters for Polytomous Items – ELA Grade 10

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
287089	1.72555	0.00000	0.79210	0.00000	1.26031	0.00000	0.56926	0.00000	-0.48059	0.00000	-1.34898	0.00000	0.00000	0.00000
293557	1.63381	0.00000	0.66535	0.00000	1.49412	0.00000	0.46743	0.00000	-0.51651	0.00000	-1.44505	0.00000	0.00000	0.00000
296592	1.55693	0.00000	0.69145	0.00000	1.18616	0.00000	0.48829	0.00000	-0.42938	0.00000	-1.24508	0.00000	0.00000	0.00000
298808	1.65706	0.00000	0.78576	0.00000	1.09708	0.00000	0.44266	0.00000	-0.23647	0.00000	-1.30328	0.00000	0.00000	0.00000
305208C	1.98106	0.00000	-0.28609	0.00000	1.56969	0.00000	1.30093	0.00000	0.05330	0.00000	-0.25616	0.00000	-1.13686	0.00000
305208T	1.87451	0.00000	1.11308	0.00000	2.50800	0.00000	2.32815	0.00000	1.50790	0.00000	1.21964	0.00000	0.30558	0.00000

Item Number	Parameters and Measures of Standard Error											
	D5	SE (D5)	D6	SE (D6)	D7	SE (D7)	D8	SE (D8)	D9	SE (D9)	D10	SE (D10)
287089												
293557												
296592												
298808												
305208C	-1.53091	0.00000	0.00000	0.00000								
305208T	-0.07354	0.00000	-0.96275	0.00000	-1.44435	0.00000	-2.54117	0.00000	-2.84745	0.00000	0.00000	0.00000

**Table H-15. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 3**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
203703	1.16119	0.01571	-0.51302	0.01573	0.21744	0.00783	260547	0.91416	0.01448	-1.01408	0.02934	0.26036	0.01294
260962	0.77185	0.01522	0.00807	0.02908	0.35676	0.00924	253644	0.91551	0.01291	0.06574	0.01567	0.16901	0.00666
297632	0.52359	0.00833	-3.30136	0.04652	0.00000	0.00000	297409	1.02666	0.01385	-0.27886	0.01588	0.18896	0.00735
225833	0.67883	0.01161	-0.64161	0.03568	0.19188	0.01327	286760	0.83690	0.01134	-0.31748	0.01885	0.11998	0.00810
206978	0.68509	0.01400	-2.28459	0.08250	0.21306	0.03751	297406	0.99246	0.01582	-0.28058	0.02072	0.31825	0.00838
297411	0.91104	0.01406	-0.89887	0.02723	0.24441	0.01201	279718	0.88213	0.01510	0.42355	0.01742	0.26182	0.00648
297456	1.07103	0.01348	-0.15050	0.01305	0.14612	0.00621	207136	0.59205	0.00741	-2.34849	0.02670	0.00000	0.00000
281983	1.09068	0.01515	0.19339	0.01267	0.20859	0.00566	293490	0.32392	0.02749	2.97225	0.07889	0.29930	0.01392
287171	0.85334	0.01557	-0.12892	0.02609	0.35898	0.00896	283001	1.14681	0.01870	1.08477	0.00942	0.18777	0.00358
297444	0.64793	0.01359	0.33859	0.02973	0.25651	0.00934	287166	0.83451	0.01635	-0.90995	0.04057	0.42159	0.01365
304526	0.67490	0.01264	-1.56217	0.05801	0.22135	0.02326	297407	0.76468	0.00790	-1.61413	0.01535	0.00000	0.00000
218450	0.96632	0.02048	-0.08661	0.02780	0.52873	0.00785	281997	0.88215	0.01148	-0.83575	0.02096	0.09958	0.00975
297631	1.34536	0.02480	0.37264	0.01422	0.47238	0.00508	207827	0.63630	0.00836	-0.62530	0.02376	0.03299	0.00890
283002	0.75203	0.01727	-1.66027	0.07109	0.45575	0.02301	293510	0.43998	0.00559	-1.73413	0.02465	0.00000	0.00000
203523	0.82388	0.01682	-0.68886	0.03956	0.45439	0.01222	297453	0.91943	0.01238	-1.11157	0.02347	0.11447	0.01147
198151	0.64184	0.00658	-1.30185	0.01484	0.00000	0.00000	287152	1.02165	0.01259	1.53732	0.00845	0.00900	0.00120

**Table H-16. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 3**

<i>Parameters and Measures of Standard Error</i>										
<i>Item Number</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>
207955	0.69891	0.00508	-0.63842	0.00843	0.28390	0.00846	-0.28390	0.00763	0.00000	0.00000
264572	0.86007	0.00493	-0.27338	0.00575	0.55936	0.00728	-0.55936	0.00612	0.00000	0.00000
285972	0.90243	0.00547	-0.85813	0.00646	0.62525	0.00878	-0.62525	0.00622	0.00000	0.00000
287136	0.56365	0.00325	-1.27164	0.00894	1.27687	0.01467	-1.27687	0.00876	0.00000	0.00000

**Table H-17. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 4**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
293449	0.73637	0.01579	-1.28130	0.06532	0.31859	0.02658	272128	0.84602	0.01266	-0.19782	0.02153	0.13617	0.00986
279764	1.22767	0.01636	-0.22195	0.01366	0.19098	0.00746	297619	1.40413	0.02018	-0.69100	0.01601	0.23548	0.00978
228997	0.74306	0.01653	-2.66052	0.10501	0.20781	0.06126	247682	0.29978	0.00510	-0.86395	0.02486	0.00000	0.00000
286777	1.01885	0.01518	-0.59507	0.02240	0.20611	0.01152	298082	1.13978	0.01856	0.92608	0.01004	0.19820	0.00425
247745	0.98105	0.01501	-0.15832	0.01957	0.22513	0.00909	293523	0.98555	0.01739	0.31127	0.01827	0.31086	0.00729
222183	0.85214	0.01588	-1.18233	0.04603	0.27516	0.02167	286768	1.03343	0.02042	-0.21613	0.02700	0.46660	0.00959
297611	1.24155	0.01769	0.17850	0.01227	0.24102	0.00610	297625	0.82913	0.01355	-1.94538	0.04823	0.09770	0.02907
279727	0.71532	0.02020	-0.75396	0.07335	0.55774	0.01797	227380	0.93373	0.01286	-0.68094	0.02211	0.10659	0.01162
279778	1.09472	0.01426	-0.34396	0.01536	0.13584	0.00827	258274	1.19228	0.01474	0.29795	0.00958	0.11591	0.00487
218882	0.84423	0.01174	-0.55862	0.02291	0.08455	0.01126	270627	0.74998	0.01188	-0.75520	0.03348	0.11155	0.01558
286771	1.08525	0.01717	-0.39894	0.02114	0.29459	0.01010	247734	0.79312	0.01216	-0.45917	0.02666	0.12123	0.01226
229016	0.76595	0.01417	0.07258	0.02698	0.22822	0.01040	258212	0.65377	0.00649	-0.48149	0.01017	0.00000	0.00000
222213	1.22419	0.02649	0.68758	0.01587	0.49388	0.00510	293519	0.81455	0.00840	-1.25725	0.01333	0.00000	0.00000
247590	0.68567	0.01125	-0.61426	0.03506	0.09597	0.01521	297623	1.30591	0.02429	0.58415	0.01333	0.41904	0.00511
297982	0.79613	0.01185	-1.63999	0.03921	0.07162	0.02183	293719	1.05353	0.01043	-0.13848	0.00881	0.01507	0.00382
227367	0.84965	0.01657	-1.90042	0.06399	0.21618	0.03647	227864	0.43642	0.00634	-1.90250	0.03067	0.00000	0.00000
218933	0.98428	0.02343	-1.47648	0.06126	0.50320	0.02418	219073	0.98497	0.00809	0.46179	0.00546	0.00000	0.00000
229063	0.79327	0.02175	-1.57104	0.09296	0.54342	0.02918							
293689	0.79477	0.01380	-0.49674	0.03259	0.21848	0.01393							
286788	1.53379	0.02602	0.09249	0.01335	0.44147	0.00600							
218902	0.82912	0.01270	-0.23260	0.02304	0.14325	0.01042							

**Table H-18. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 4**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
250313	1.05743	0.00434	0.70036	0.00398	1.16820	0.00578	0.36935	0.00503	-0.30179	0.00525	-1.23576	0.00714	0.00000	0.00000
272227	0.91317	0.00348	0.20998	0.00452	1.87395	0.00963	0.55889	0.00614	-0.64725	0.00577	-1.78559	0.00785	0.00000	0.00000
297615	0.93228	0.00379	0.48758	0.00447	1.62883	0.00772	0.14828	0.00556	-0.60297	0.00586	-1.17414	0.00683	0.00000	0.00000
297617	1.32589	0.00530	0.47691	0.00321	1.22715	0.00560	0.35567	0.00436	-0.37017	0.00437	-1.21265	0.00571	0.00000	0.00000

**Table H-19. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 5**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
280678	0.93460	0.01513	-1.76077	0.03808	0.18903	0.02094	298024	1.28437	0.02313	0.28742	0.01554	0.45731	0.00552
280733	0.70451	0.01361	-1.25776	0.05550	0.30981	0.02075	297999	0.93447	0.01519	-0.52656	0.02632	0.31377	0.01072
204722	1.59868	0.01793	-0.21257	0.00824	0.11830	0.00467	217318	1.48826	0.01877	-0.54848	0.01165	0.17991	0.00686
206953	0.90492	0.01360	-0.25605	0.02143	0.22505	0.00900	207200	0.31185	0.00483	-1.23281	0.02695	0.00000	0.00000
198669	0.74411	0.01280	-0.83587	0.03873	0.24873	0.01521	299558	0.45942	0.00615	-2.14471	0.02986	0.00000	0.00000
305027	0.86982	0.01552	-2.03724	0.05052	0.21460	0.02695	248907	1.30045	0.04165	0.98577	0.01902	0.68625	0.00369
298102	1.08450	0.01627	-0.08598	0.01709	0.28914	0.00730	272886	0.64087	0.01322	0.42005	0.02782	0.19070	0.00930
298029	1.12528	0.01602	-0.28138	0.01686	0.26373	0.00778	204718	0.88378	0.01359	-0.03669	0.02008	0.21716	0.00814
207149	1.20514	0.01875	-0.12396	0.01670	0.35581	0.00706	272909	0.80884	0.02571	1.23381	0.02175	0.44901	0.00573
287174	0.50430	0.01561	-0.34184	0.08446	0.40403	0.01889	204721	1.17705	0.01325	-0.15595	0.01079	0.09398	0.00535
298000	0.73768	0.01078	-1.42381	0.03715	0.09943	0.01760	298028	0.58946	0.01162	0.32165	0.02936	0.12375	0.00996
293822	0.97117	0.01791	0.50552	0.01721	0.32943	0.00613	260839	0.82000	0.00684	0.07644	0.00679	0.00000	0.00000
280732	1.18380	0.02506	1.27006	0.01034	0.28298	0.00370	207523	0.81497	0.00684	-0.15820	0.00734	0.00000	0.00000
217312	0.95263	0.01220	-1.08179	0.02191	0.09812	0.01148	293831	0.67221	0.00776	-1.94187	0.02060	0.00000	0.00000
287252	0.60374	0.01205	0.08511	0.03420	0.16966	0.01140	287421	0.75046	0.00774	-1.51121	0.01501	0.00000	0.00000
287175	0.82577	0.01204	-0.43277	0.02379	0.16450	0.01018	298016	0.92540	0.00770	-0.50258	0.00765	0.00000	0.00000
262202	0.94254	0.01125	0.18405	0.01156	0.06413	0.00496	249114	0.73375	0.00684	-0.91903	0.01114	0.00000	0.00000
248873	1.24409	0.01692	-1.10490	0.01828	0.16342	0.01090							
204713	0.68848	0.00959	-1.82431	0.03799	0.05418	0.01752							
217354	0.73001	0.01256	-0.66206	0.03647	0.23540	0.01398							
260827	1.29565	0.02146	-0.42330	0.01901	0.42344	0.00808							

**Table H-20. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 5**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
261989	1.43486	0.00632	0.40683	0.00314	0.86536	0.00495	0.14464	0.00422	0.00691	0.00418	-1.01691	0.00478	0.00000	0.00000
296353	1.21545	0.00516	0.11378	0.00357	1.56591	0.00782	0.05176	0.00484	-0.50767	0.00463	-1.11000	0.00501	0.00000	0.00000
298005	0.80180	0.00337	-0.35468	0.00540	1.91829	0.01258	1.12718	0.00921	-1.19757	0.00648	-1.84791	0.00718	0.00000	0.00000
298019	1.18642	0.00507	0.17469	0.00363	1.13112	0.00641	0.22697	0.00497	-0.35092	0.00470	-1.00718	0.00505	0.00000	0.00000

**Table H-21. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 6**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
282234	0.67109	0.01756	-0.63060	0.06791	0.46696	0.01854	280489	0.90217	0.01209	-0.59334	0.02139	0.08884	0.01088
221615	0.74123	0.01140	0.63078	0.01488	0.06072	0.00607	266118	0.92780	0.01178	-1.12101	0.02298	0.05332	0.01264
282262	1.29768	0.01590	-0.27582	0.01190	0.13509	0.00684	227704	1.21080	0.01845	-1.16464	0.02447	0.18853	0.01539
266120	1.04032	0.01487	-0.21321	0.01776	0.19947	0.00876	282136	0.95505	0.01684	0.42816	0.01789	0.29340	0.00708
265878	1.62592	0.02166	-0.00992	0.00973	0.24755	0.00572	280989	1.44997	0.01916	0.37013	0.00901	0.21546	0.00478
229837	1.55044	0.02581	-0.31456	0.01555	0.42080	0.00774	298171	1.06471	0.01615	0.13497	0.01589	0.25066	0.00726
298256	1.43684	0.01973	0.58603	0.00858	0.21893	0.00430	298143	0.67059	0.01268	-0.37787	0.03979	0.18719	0.01531
298264	0.81182	0.01381	-1.03990	0.04057	0.19929	0.01943	281968	0.99414	0.01576	0.43306	0.01497	0.22801	0.00647
299676	0.75339	0.01265	-0.11661	0.02709	0.16336	0.01119	282260	1.23579	0.01732	-1.01944	0.02011	0.14565	0.01269
298136	1.43200	0.01968	0.86004	0.00742	0.16979	0.00350	266122	1.52292	0.01910	0.45850	0.00769	0.17625	0.00416
298152	1.01021	0.01532	-0.63479	0.02406	0.21946	0.01219	296376	1.20839	0.01721	0.42240	0.01125	0.22184	0.00540
281510	0.76153	0.01748	-0.91567	0.05983	0.43671	0.01982	248904	1.05040	0.00846	0.09371	0.00558	0.00000	0.00000
266127	1.27193	0.01870	0.04951	0.01371	0.29020	0.00675	282278	1.02653	0.00869	-0.41008	0.00707	0.00000	0.00000
251262	0.52270	0.00845	-2.75677	0.04337	0.00000	0.00000	299672	1.10294	0.01026	-0.95919	0.00914	0.00000	0.00000
264404	1.26365	0.01852	0.71364	0.00957	0.21432	0.00444	298255	0.51066	0.00589	0.98777	0.01058	0.00000	0.00000
282266	1.02480	0.01666	-1.07689	0.03130	0.23755	0.01695	217619	0.81808	0.00711	0.20200	0.00653	0.00000	0.00000
290243	0.78579	0.00798	-1.16132	0.01318	0.00000	0.00000	289758	1.07855	0.00903	0.98975	0.00558	0.00000	0.00000
282153	1.26612	0.01472	0.39966	0.00811	0.09463	0.00413							
299674	1.41020	0.05376	1.92514	0.01620	0.46016	0.00292							
288794	1.23360	0.01830	0.69676	0.01000	0.21943	0.00460							
229868	0.47776	0.00579	-0.88024	0.01680	0.00000	0.00000							

**Table H-22. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 6**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
251350	1.31964	0.00575	0.20099	0.00333	0.91617	0.00565	0.08814	0.00439	-0.10089	0.00429	-0.90342	0.00457	0.00000	0.00000
273841	1.34094	0.00603	-0.41693	0.00361	1.20995	0.00875	0.31683	0.00561	0.19871	0.00537	-1.72549	0.00483	0.00000	0.00000
298250	1.13989	0.00538	-0.81945	0.00424	1.07277	0.01048	0.32324	0.00710	-0.08350	0.00604	-1.31252	0.00481	0.00000	0.00000
298287	1.15651	0.00501	-0.27287	0.00384	1.11144	0.00802	0.21437	0.00552	0.01687	0.00523	-1.34269	0.00500	0.00000	0.00000

**Table H-23. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 7**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
272713	0.93300	0.01536	-0.71483	0.02780	0.28928	0.01220	208663	1.28996	0.03064	1.49105	0.01063	0.26688	0.00298
298188	0.83984	0.01515	-0.66372	0.03356	0.31637	0.01317	219523	0.64209	0.01757	0.29778	0.04070	0.38816	0.01076
272464	1.07168	0.01610	-0.25056	0.01751	0.27069	0.00788	298221	0.70351	0.01624	0.45855	0.02758	0.29721	0.00871
228056	1.58243	0.01965	-0.91806	0.01111	0.11351	0.00746	272768	0.94969	0.01068	-0.47600	0.01353	0.03903	0.00650
249216	0.90492	0.01199	-0.08548	0.01510	0.09944	0.00684	281679	1.45784	0.02247	0.93683	0.00746	0.19795	0.00305
295746	1.21568	0.01862	0.47552	0.01087	0.25449	0.00464	250204	0.89749	0.01368	-0.12695	0.01923	0.19593	0.00823
272445	1.53692	0.01897	0.69112	0.00617	0.11582	0.00275	250347	1.14171	0.01570	0.64985	0.00878	0.12893	0.00377
295751	1.20361	0.01487	0.60685	0.00753	0.08737	0.00324	249122	1.23604	0.01930	-1.21669	0.02332	0.25351	0.01385
272452	0.97470	0.01710	0.67641	0.01324	0.23293	0.00512	295743	1.18983	0.02002	-0.62374	0.02181	0.40042	0.00957
250260	0.68597	0.01487	-0.27205	0.04068	0.31949	0.01304	298222	0.89889	0.01297	-0.46659	0.02117	0.16379	0.00979
259275	1.17703	0.02070	0.44292	0.01360	0.35954	0.00515	219425	1.24999	0.01888	-0.01067	0.01369	0.31347	0.00613
298210	1.62345	0.02146	0.44503	0.00730	0.20887	0.00360	219511	0.93578	0.00912	-1.39630	0.01125	0.00000	0.00000
205235	1.04379	0.01423	-0.39247	0.01668	0.18194	0.00818	205420	1.00360	0.00786	0.05128	0.00557	0.00000	0.00000
208391	0.95969	0.01477	0.08781	0.01640	0.21845	0.00692	298193	1.20859	0.01191	-1.39984	0.00942	0.00000	0.00000
228088	0.93743	0.01341	-0.27945	0.01842	0.17393	0.00841	295742	0.74997	0.00651	0.10115	0.00688	0.00000	0.00000
249215	0.95331	0.01520	-0.55225	0.02426	0.27511	0.01066	281696	1.10202	0.01027	-1.23936	0.00909	0.00000	0.00000
250243	0.83569	0.01641	-1.04454	0.04457	0.37531	0.01719	219536	0.80718	0.00731	-0.92081	0.00959	0.00000	0.00000
205493	1.23752	0.01575	-0.56983	0.01389	0.16782	0.00775							
228035	0.92801	0.01261	-1.68306	0.02846	0.06432	0.01706							
288412	1.13830	0.01641	0.17549	0.01254	0.22809	0.00562							
208381	1.06953	0.01576	-1.29449	0.02590	0.17035	0.01536							

**Table H-24. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 7**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
228042	1.20153	0.00546	0.22982	0.00367	0.85005	0.00534	-0.00589	0.00463	-0.08588	0.00462	-0.75827	0.00498	0.00000	0.00000
259293	1.53899	0.00637	-0.00578	0.00284	1.15660	0.00571	0.21827	0.00414	-0.28041	0.00391	-1.09446	0.00436	0.00000	0.00000
261081	1.29977	0.00577	-0.78666	0.00359	1.26334	0.00959	0.37183	0.00605	-0.41390	0.00473	-1.22127	0.00444	0.00000	0.00000
298185	0.98203	0.00386	-0.39790	0.00428	1.56725	0.00978	0.58761	0.00658	-0.30106	0.00549	-1.85380	0.00648	0.00000	0.00000

**Table H-25. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 8**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
283277	0.97580	0.01439	-0.83458	0.02538	0.20935	0.01260	264788	0.42842	0.00753	-3.40177	0.05859	0.00000	0.00000
299575	1.06601	0.01223	-0.35320	0.01308	0.07339	0.00658	298197	0.81676	0.01299	-1.52107	0.04165	0.19264	0.02087
253767	0.75396	0.01322	-0.09455	0.02930	0.26196	0.01062	304571	1.16725	0.01704	-0.58829	0.01905	0.26025	0.00965
265920	0.61984	0.01189	0.16705	0.03334	0.19438	0.01113	264721	1.37447	0.02114	0.89331	0.00923	0.26887	0.00384
260370	1.21521	0.01837	0.19454	0.01411	0.32609	0.00610	298045	0.83458	0.01342	-1.36457	0.03994	0.21551	0.01949
296752	1.83486	0.03474	1.45356	0.00745	0.29476	0.00265	297647	0.72776	0.01535	1.30895	0.01704	0.20406	0.00559
263841	1.12808	0.01489	0.04067	0.01330	0.19690	0.00634	264787	1.10378	0.02179	0.48502	0.01867	0.48281	0.00581
228313	0.83936	0.01250	-0.93601	0.03067	0.17286	0.01453	253770	0.99776	0.01410	-0.89691	0.02382	0.17303	0.01242
297650	0.78182	0.01612	1.53901	0.01424	0.17339	0.00451	297649	0.70757	0.01508	-0.15253	0.04081	0.39044	0.01207
296749	1.19648	0.01701	0.64749	0.01051	0.22191	0.00455	253754	1.76346	0.02526	1.10005	0.00634	0.19466	0.00274
297513	1.03565	0.01424	-0.80209	0.02129	0.16514	0.01120	297657	1.50375	0.01739	0.26584	0.00775	0.14232	0.00411
226946	0.84264	0.01236	0.77691	0.01289	0.11324	0.00507	265348	0.99965	0.00838	-0.51541	0.00746	0.00000	0.00000
283255	0.93210	0.01281	-0.51313	0.02103	0.15810	0.01004	296114	0.61806	0.00617	-0.86850	0.01288	0.00000	0.00000
298201	0.78632	0.01367	0.08329	0.02567	0.26924	0.00929	219701	1.00401	0.00795	0.01426	0.00600	0.00000	0.00000
287512	0.91756	0.01576	0.58396	0.01712	0.28568	0.00627	299554	1.03944	0.00903	-0.75360	0.00817	0.00000	0.00000
297511	0.95320	0.01376	0.68934	0.01229	0.15707	0.00503	297651	0.75524	0.00646	0.12751	0.00719	0.00000	0.00000
253752	0.35893	0.00915	-2.77312	0.18674	0.15975	0.05402	297664	1.37761	0.01035	0.49050	0.00442	0.00000	0.00000
219587	1.23768	0.01769	-0.32556	0.01582	0.27610	0.00787							
284908	1.25734	0.01755	-0.32932	0.01508	0.25725	0.00769							
287601	0.72288	0.01419	0.39338	0.02722	0.28986	0.00885							
299548	1.10136	0.01594	-0.28286	0.01776	0.26347	0.00832							

**Table H-26. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 8**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
228175	1.03945	0.00457	0.17475	0.00420	1.46642	0.00793	-0.09164	0.00526	-0.42987	0.00519	-0.94491	0.00546	0.00000	0.00000
284769	1.01628	0.00440	-0.30090	0.00431	1.41682	0.00957	0.15004	0.00598	-0.32743	0.00545	-1.23943	0.00543	0.00000	0.00000
297645	1.10607	0.00495	0.68446	0.00395	0.97136	0.00554	-0.02146	0.00497	-0.10939	0.00499	-0.84051	0.00572	0.00000	0.00000
298054	0.92183	0.00353	0.55703	0.00451	2.15526	0.00940	0.30991	0.00576	-0.70585	0.00604	-1.75931	0.00842	0.00000	0.00000

**Table H-27. 2013 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 10**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
273329	0.98764	0.00000	0.37731	0.00000	0.21526	0.00000	281729	0.94247	0.00000	0.18022	0.00000	0.17480	0.00000
294006	1.11505	0.00000	0.77137	0.00000	0.27725	0.00000	294180	0.88305	0.00000	1.79953	0.00000	0.30250	0.00000
292914	1.64816	0.00000	0.62606	0.00000	0.18343	0.00000	294645	1.21745	0.00000	0.22570	0.00000	0.13152	0.00000
281587	1.35560	0.00000	1.03082	0.00000	0.28899	0.00000	294298	1.14469	0.00000	0.67034	0.00000	0.20482	0.00000
282172	1.14498	0.00000	0.99015	0.00000	0.18827	0.00000	294139	0.95004	0.00000	0.69269	0.00000	0.22340	0.00000
288121	1.02420	0.00000	0.53921	0.00000	0.11115	0.00000	288069	0.97899	0.00000	-0.07165	0.00000	0.19990	0.00000
293986	1.12258	0.00000	0.23871	0.00000	0.22663	0.00000	299949	1.97785	0.00000	1.95415	0.00000	0.24226	0.00000
279246	1.78648	0.00000	0.79923	0.00000	0.27627	0.00000	294293	0.93411	0.00000	0.73625	0.00000	0.25764	0.00000
261532	1.29561	0.00000	0.55358	0.00000	0.08908	0.00000	294177	1.79728	0.00000	1.48715	0.00000	0.21407	0.00000
294637	1.26267	0.00000	0.28644	0.00000	0.14189	0.00000	294505	1.26693	0.00000	0.24822	0.00000	0.21743	0.00000
294682	1.08804	0.00000	1.23159	0.00000	0.25007	0.00000	294626	1.06538	0.00000	-0.14534	0.00000	0.16804	0.00000
299936	1.26310	0.00000	1.46149	0.00000	0.20481	0.00000	253197	1.95477	0.00000	1.27066	0.00000	0.27066	0.00000
294020	1.00866	0.00000	0.84365	0.00000	0.22820	0.00000	279302	1.38323	0.00000	0.33220	0.00000	0.00000	0.00000
278554	1.47448	0.00000	1.00325	0.00000	0.36751	0.00000	294026	0.85364	0.00000	0.91693	0.00000	0.00000	0.00000
294492	1.42267	0.00000	0.04088	0.00000	0.21249	0.00000	294025	1.19116	0.00000	0.35867	0.00000	0.00000	0.00000
299933	1.31266	0.00000	0.55534	0.00000	0.26573	0.00000	254560	1.26711	0.00000	0.73355	0.00000	0.00000	0.00000
293168	0.98942	0.00000	0.87642	0.00000	0.24190	0.00000							
299946	1.88349	0.00000	1.53583	0.00000	0.31470	0.00000							
294312	1.19000	0.00000	0.34952	0.00000	0.12110	0.00000							
294667	0.37224	0.00000	1.13807	0.00000	0.20947	0.00000							

**Table H-28. 2013 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 10**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
288045	2.09934	0.00000	0.28719	0.00000	0.81591	0.00000	0.21198	0.00000	-0.33353	0.00000	-0.69437	0.00000	0.00000	0.00000
288090	1.13721	0.00000	0.11162	0.00000	1.14194	0.00000	0.36681	0.00000	-0.39492	0.00000	-1.11383	0.00000	0.00000	0.00000
294030	1.32989	0.00000	1.03670	0.00000	0.88286	0.00000	0.25054	0.00000	-0.16533	0.00000	-0.96807	0.00000	0.00000	0.00000
294335	1.26032	0.00000	0.89650	0.00000	1.56960	0.00000	0.86113	0.00000	-0.70541	0.00000	-1.72532	0.00000	0.00000	0.00000
296368	1.46165	0.00000	0.87288	0.00000	0.97578	0.00000	0.48496	0.00000	-0.00466	0.00000	-1.45608	0.00000	0.00000	0.00000
296369	1.02361	0.00000	-0.05826	0.00000	1.34574	0.00000	0.04219	0.00000	-0.38521	0.00000	-1.00272	0.00000	0.00000	0.00000

**Table H-29. 2013 MCAS: IRT Parameters for Dichotomous Items –
STE Grade 5**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
291363	0.85764	0.01888	-1.70067	0.06052	0.45831	0.02284	291258	0.45006	0.00604	-2.15292	0.02736	0.00000	0.00000
291214	1.17142	0.01960	-1.49030	0.02813	0.29217	0.01594	289424	0.55781	0.00717	-2.30757	0.02556	0.00000	0.00000
291147	0.25925	0.00455	-1.03159	0.02554	0.00000	0.00000	304795	0.65953	0.01472	-0.10738	0.03785	0.32478	0.01131
289664	0.74735	0.01542	0.61683	0.02023	0.25126	0.00666	304796	0.67553	0.01223	-0.51238	0.03473	0.19544	0.01284
291420	0.57022	0.01042	-0.81420	0.04556	0.11218	0.01671	273757	0.68139	0.01184	-1.96941	0.05807	0.14409	0.02796
273767	0.73341	0.01438	-0.36181	0.03367	0.30763	0.01138	281840	0.44399	0.00631	-2.45495	0.03222	0.00000	0.00000
289442	0.75284	0.01541	0.60382	0.02007	0.25111	0.00664	304797	0.86969	0.01381	-0.84388	0.02770	0.22787	0.01231
288213	0.40678	0.00517	-1.21885	0.01849	0.00000	0.00000	273711	0.59865	0.01083	-1.86531	0.06557	0.12946	0.02836
289489	0.89197	0.01435	-0.13257	0.01956	0.23878	0.00782	291164	0.73843	0.01471	0.76706	0.01769	0.19461	0.00603
229048	0.47116	0.01147	-1.74866	0.11112	0.19384	0.03621	291383	0.52500	0.01593	-1.34317	0.11623	0.45902	0.02734
281855	0.95866	0.01559	0.61831	0.01239	0.19189	0.00470	289471	0.61347	0.01208	-1.05336	0.05371	0.20936	0.01961
245343	0.72723	0.01096	-2.05919	0.04306	0.07840	0.02237	291218	0.73067	0.01279	-0.31807	0.02832	0.20936	0.01061
273777	0.42555	0.01285	-0.60418	0.09775	0.23155	0.02465	281879	0.38789	0.01294	-0.11605	0.09435	0.19025	0.02253
304794	0.75371	0.00983	-0.63954	0.02066	0.05235	0.00905	304798	0.76192	0.01310	-1.31127	0.04213	0.21859	0.01866
288209	0.51455	0.01687	0.71758	0.04580	0.33101	0.01114	273721	0.51480	0.01021	-1.27452	0.06626	0.11682	0.02365
289673	0.83440	0.01289	-0.52287	0.02374	0.18789	0.01013	291050	0.98380	0.01346	-0.30765	0.01563	0.15918	0.00722
229326	0.42499	0.00923	-3.49061	0.13555	0.12278	0.04994	281872	0.80179	0.01373	-0.19621	0.02400	0.23882	0.00910
229219	0.58127	0.01167	-2.18640	0.08662	0.17070	0.03695							
288149	0.52793	0.00969	-2.52017	0.08339	0.10134	0.03543							
227848	0.94549	0.01301	-0.03949	0.01416	0.13912	0.00621							
281880	0.79189	0.01578	0.94188	0.01530	0.19696	0.00514							

**Table H-30. 2013 MCAS: IRT Parameters for Polytomous Items –
STE Grade 5**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
273773	0.83273	0.00346	-0.53468	0.00506	1.34236	0.00939	0.48531	0.00714	-0.22074	0.00634	-1.60692	0.00688	0.00000	0.00000
288159	0.73115	0.00293	0.44604	0.00571	2.02803	0.00908	0.04211	0.00694	-0.47066	0.00729	-1.59948	0.00971	0.00000	0.00000
288853	0.91711	0.00350	0.14744	0.00459	2.31361	0.01035	0.45397	0.00594	-0.80235	0.00622	-1.96522	0.00912	0.00000	0.00000
291642	0.68635	0.00273	0.00544	0.00592	1.72298	0.00971	0.50013	0.00750	-0.41767	0.00729	-1.80544	0.00931	0.00000	0.00000

**Table H-31. 2013 MCAS: IRT Parameters for Dichotomous Items –
STE Grade 8**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
290950	0.95653	0.01338	-1.10620	0.02496	0.10581	0.01393	282063	1.45991	0.01965	-0.24079	0.01111	0.23737	0.00642
282011	0.46356	0.00703	-2.37585	0.03538	0.00000	0.00000	273946	0.71760	0.00863	-1.92593	0.02043	0.00000	0.00000
291859	0.88455	0.01797	0.05073	0.02482	0.36459	0.00891	288334	0.87822	0.01614	-0.19178	0.02531	0.30122	0.01008
304800	0.78718	0.01297	-0.59252	0.02924	0.15970	0.01307	288341	1.03555	0.01877	0.84073	0.01122	0.20533	0.00467
288345	1.29611	0.01855	0.08502	0.01131	0.24604	0.00581	282052	0.87804	0.01544	-0.08697	0.02241	0.25615	0.00929
273991	0.58319	0.00668	-1.29078	0.01634	0.00000	0.00000	246315	1.04920	0.01549	-0.88637	0.02297	0.19421	0.01245
291843	1.27819	0.04152	1.63177	0.01488	0.36383	0.00320	265243	1.22082	0.01902	-1.07393	0.02314	0.25985	0.01336
304801	0.59491	0.01473	0.40842	0.03360	0.19076	0.01133	291945	1.00837	0.01470	-1.45138	0.02875	0.11411	0.01748
246328	1.04100	0.01498	-0.23670	0.01621	0.18905	0.00805	291764	1.18188	0.02179	0.88618	0.01029	0.25104	0.00421
304799	0.89402	0.01835	0.58761	0.01735	0.28688	0.00658	229440	1.31671	0.01934	0.10586	0.01145	0.27019	0.00578
282030	1.10193	0.01558	-1.24079	0.02348	0.12955	0.01435	246351	1.20012	0.01934	0.65414	0.00989	0.21947	0.00448
289702	1.05093	0.01939	0.71125	0.01242	0.25572	0.00513	289589	1.19958	0.03796	1.50488	0.01484	0.40017	0.00356
288332	1.18926	0.01763	0.52640	0.00963	0.18274	0.00458	282053	1.22844	0.01987	0.50475	0.01079	0.26283	0.00492
288296	1.17280	0.01925	0.53253	0.01115	0.25168	0.00501	265287	0.34062	0.00533	-0.74241	0.01924	0.00000	0.00000
229349	0.87610	0.01340	-0.67990	0.02541	0.15837	0.01231	290289	1.10205	0.02065	0.70299	0.01235	0.28849	0.00503
229385	0.97353	0.01544	-1.03412	0.02900	0.21570	0.01511	282028	1.00522	0.01542	-0.67156	0.02287	0.22524	0.01143
273950	0.89944	0.01456	-0.07689	0.01948	0.20291	0.00863	265247	1.12065	0.01886	0.68956	0.01070	0.21891	0.00469
281945	0.85598	0.01932	-0.61724	0.04198	0.47608	0.01339							
273917	1.10110	0.01711	-0.15436	0.01657	0.27295	0.00782							
273957	1.01723	0.01869	-1.50243	0.04116	0.30306	0.02188							
289772	1.73690	0.02776	1.05262	0.00634	0.17549	0.00260							

**Table H-32. 2013 MCAS: IRT Parameters for Polytomous Items –
STE Grade 8**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
273986	1.09146	0.00431	0.71415	0.00383	1.39800	0.00570	0.31668	0.00479	-0.41375	0.00539	-1.30093	0.00803	0.00000	0.00000
282059	0.81208	0.00308	0.17404	0.00497	1.71816	0.00890	0.57879	0.00643	-0.56406	0.00623	-1.73289	0.00850	0.00000	0.00000
292022	0.95550	0.00388	-0.14911	0.00433	1.49298	0.00878	0.11777	0.00557	-0.29577	0.00533	-1.31498	0.00602	0.00000	0.00000
299004	0.96732	0.00379	0.00363	0.00422	1.31810	0.00757	0.52387	0.00580	-0.37820	0.00526	-1.46378	0.00656	0.00000	0.00000

**Table H-33. 2013 MCAS: IRT Parameters for Dichotomous Items –
High School Biology**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
243374	0.73809	0.00000	-0.29273	0.00000	0.40863	0.00000	295297	0.92216	0.00000	-0.39404	0.00000	0.27857	0.00000
222094	1.06169	0.00000	-0.24821	0.00000	0.29951	0.00000	281160	0.91297	0.00000	0.18070	0.00000	0.28332	0.00000
243456	0.96420	0.00000	-1.34293	0.00000	0.20467	0.00000	290933	0.98598	0.00000	0.57408	0.00000	0.26033	0.00000
296664	0.99054	0.00000	-0.14905	0.00000	0.47390	0.00000	294825	0.96037	0.00000	-1.04765	0.00000	0.38887	0.00000
296657	1.43918	0.00000	-1.00241	0.00000	0.29354	0.00000	235185	1.69819	0.00000	0.46585	0.00000	0.47023	0.00000
295292	0.75200	0.00000	-0.28306	0.00000	0.19580	0.00000	273463	0.90585	0.00000	0.37093	0.00000	0.31984	0.00000
281170	0.61241	0.00000	-0.51729	0.00000	0.20038	0.00000	275511	1.17276	0.00000	-0.68248	0.00000	0.24873	0.00000
290002	1.60201	0.00000	0.49202	0.00000	0.33690	0.00000	273525	1.65076	0.00000	0.12264	0.00000	0.24963	0.00000
290004	0.74232	0.00000	0.56233	0.00000	0.30554	0.00000	279797	0.91786	0.00000	-0.42915	0.00000	0.19194	0.00000
290007	1.54831	0.00000	1.04747	0.00000	0.20872	0.00000	296683	1.62088	0.00000	-0.86899	0.00000	0.21258	0.00000
290005	1.63594	0.00000	0.23169	0.00000	0.18596	0.00000	242937	0.86310	0.00000	-0.08316	0.00000	0.27802	0.00000
275472	1.31552	0.00000	-0.08366	0.00000	0.22091	0.00000	276736	0.99538	0.00000	0.40469	0.00000	0.27285	0.00000
299072	0.95565	0.00000	-0.21474	0.00000	0.32148	0.00000	290967	0.69248	0.00000	0.95150	0.00000	0.24781	0.00000
273469	1.64631	0.00000	-0.00960	0.00000	0.34221	0.00000	296800	0.79951	0.00000	-0.55067	0.00000	0.37497	0.00000
289226	0.56187	0.00000	0.59117	0.00000	0.25175	0.00000	275480	1.37072	0.00000	0.60170	0.00000	0.36843	0.00000
276503	1.24059	0.00000	-0.15519	0.00000	0.20323	0.00000	234812	0.80211	0.00000	-0.23400	0.00000	0.20636	0.00000
296766	0.92334	0.00000	-0.93624	0.00000	0.17158	0.00000	296714	0.73546	0.00000	0.52146	0.00000	0.38029	0.00000
290984	1.22537	0.00000	-0.50508	0.00000	0.15804	0.00000	296790	1.40499	0.00000	-0.69337	0.00000	0.24988	0.00000
283037	0.45087	0.00000	0.27970	0.00000	0.13058	0.00000							
293193	0.62169	0.00000	0.07616	0.00000	0.25844	0.00000							
296645	0.99186	0.00000	-0.60025	0.00000	0.27337	0.00000							
267507	1.07454	0.00000	0.54735	0.00000	0.45565	0.00000							

**Table H-34. 2013 MCAS: IRT Parameters for Polytomous Items –
High School Biology**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
289132	1.28163	0.00000	0.40005	0.00000	1.61619	0.00000	0.70331	0.00000	-0.70403	0.00000	-1.61547	0.00000	0.00000	0.00000
290009	1.39001	0.00000	0.49313	0.00000	1.53342	0.00000	0.52247	0.00000	-0.23084	0.00000	-1.82506	0.00000	0.00000	0.00000
294798	1.22966	0.00000	0.27105	0.00000	1.15133	0.00000	0.37148	0.00000	-0.30556	0.00000	-1.21725	0.00000	0.00000	0.00000
295308	1.11229	0.00000	-0.03898	0.00000	1.50662	0.00000	0.77295	0.00000	-0.44648	0.00000	-1.83309	0.00000	0.00000	0.00000
296805	0.97956	0.00000	1.45918	0.00000	2.21338	0.00000	0.36213	0.00000	-0.86107	0.00000	-1.71444	0.00000	0.00000	0.00000

**Table H-35. 2013 MCAS: IRT Parameters for Dichotomous Items –
High School Chemistry**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
281323	1.31855	0.00000	-0.30216	0.00000	0.20892	0.00000	281263	1.12350	0.00000	0.52750	0.00000	0.24027	0.00000
298325	1.30395	0.00000	-0.03295	0.00000	0.17832	0.00000	287272	1.08547	0.00000	0.00100	0.00000	0.21691	0.00000
281214	1.31028	0.00000	0.78650	0.00000	0.15020	0.00000	260920	0.95927	0.00000	0.87286	0.00000	0.25123	0.00000
273012	0.71404	0.00000	0.13731	0.00000	0.28963	0.00000	261469	1.00251	0.00000	1.10716	0.00000	0.44956	0.00000
244829	0.94943	0.00000	0.83199	0.00000	0.22183	0.00000	274067	1.52675	0.00000	-0.21493	0.00000	0.19794	0.00000
287594	1.07164	0.00000	0.68050	0.00000	0.22898	0.00000	261188	0.60985	0.00000	-0.18439	0.00000	0.19515	0.00000
229548	1.22081	0.00000	0.17267	0.00000	0.21373	0.00000	252651	1.00320	0.00000	-0.47207	0.00000	0.28940	0.00000
261464	1.10645	0.00000	0.89237	0.00000	0.37751	0.00000	294713	1.18706	0.00000	0.99074	0.00000	0.14998	0.00000
264320	1.43151	0.00000	1.03601	0.00000	0.34469	0.00000	260916	1.08043	0.00000	0.70654	0.00000	0.27644	0.00000
252675	1.13446	0.00000	-0.41904	0.00000	0.25966	0.00000	288269	0.87540	0.00000	0.84885	0.00000	0.16959	0.00000
244815	1.22826	0.00000	0.12245	0.00000	0.20316	0.00000	252565	0.87149	0.00000	-0.87371	0.00000	0.26238	0.00000
280897	1.22152	0.00000	-0.24649	0.00000	0.23563	0.00000	281218	1.25098	0.00000	-0.18620	0.00000	0.21328	0.00000
281317	1.14616	0.00000	-0.13772	0.00000	0.25488	0.00000	281919	1.32039	0.00000	0.24646	0.00000	0.17262	0.00000
258906	1.32535	0.00000	0.98731	0.00000	0.27736	0.00000	273186	1.31515	0.00000	-0.26728	0.00000	0.24892	0.00000
274049	1.33493	0.00000	0.45944	0.00000	0.14890	0.00000	294699	1.49074	0.00000	0.41671	0.00000	0.19975	0.00000
226997	0.88844	0.00000	0.25794	0.00000	0.21902	0.00000	216954	1.48371	0.00000	0.39699	0.00000	0.19580	0.00000
281282	1.08868	0.00000	0.23763	0.00000	0.28166	0.00000	287563	1.35194	0.00000	-0.35748	0.00000	0.20718	0.00000
229556	1.13790	0.00000	-1.16653	0.00000	0.18314	0.00000	264326	1.63365	0.00000	0.08487	0.00000	0.28155	0.00000
275910	1.31621	0.00000	0.37607	0.00000	0.22041	0.00000							
298323	1.58014	0.00000	-0.47633	0.00000	0.19127	0.00000							
287275	1.12639	0.00000	-0.62566	0.00000	0.27177	0.00000							
273221	1.18276	0.00000	0.01879	0.00000	0.23972	0.00000							

**Table H-36. 2013 MCAS: IRT Parameters for Polytomous Items –
High School Chemistry**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
260794	1.54017	0.00000	1.17070	0.00000	1.12450	0.00000	0.50786	0.00000	-0.34322	0.00000	-1.28914	0.00000	0.00000	0.00000
272994	1.13491	0.00000	0.97280	0.00000	1.67989	0.00000	0.37740	0.00000	-0.46226	0.00000	-1.59503	0.00000	0.00000	0.00000
273070	1.56844	0.00000	0.28344	0.00000	0.84749	0.00000	0.09984	0.00000	-0.21329	0.00000	-0.73405	0.00000	0.00000	0.00000
274045	1.38052	0.00000	0.07979	0.00000	1.57309	0.00000	0.42004	0.00000	-0.33470	0.00000	-1.65842	0.00000	0.00000	0.00000
294716	1.63764	0.00000	1.06789	0.00000	1.18123	0.00000	0.61949	0.00000	-0.45332	0.00000	-1.34739	0.00000	0.00000	0.00000

**Table H-37. 2013 MCAS: IRT Parameters for Dichotomous Items –
High School Introductory Physics**

<i>Parameters and Measures of Standard Error</i>							<i>Parameters and Measures of Standard Error</i>						
<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>	<i>Item Number</i>	<i>a</i>	<i>SE (a)</i>	<i>b</i>	<i>SE (b)</i>	<i>c</i>	<i>SE (c)</i>
235239	1.39115	0.00000	0.28496	0.00000	0.25816	0.00000	293935	1.13689	0.00000	0.89660	0.00000	0.40398	0.00000
287222	0.94308	0.00000	0.82640	0.00000	0.33576	0.00000	295881	0.83379	0.00000	0.54228	0.00000	0.51839	0.00000
287397	0.71375	0.00000	-0.22800	0.00000	0.26484	0.00000	293893	0.49390	0.00000	-0.08787	0.00000	0.21350	0.00000
280841	0.93567	0.00000	0.31495	0.00000	0.36254	0.00000	287357	0.83951	0.00000	0.57947	0.00000	0.34946	0.00000
280936	0.48842	0.00000	-0.34020	0.00000	0.16021	0.00000	293882	1.02547	0.00000	-0.17664	0.00000	0.36921	0.00000
287322	0.86265	0.00000	0.68335	0.00000	0.30383	0.00000	280854	0.80566	0.00000	0.60041	0.00000	0.33151	0.00000
246878	0.93899	0.00000	1.00007	0.00000	0.34784	0.00000	280938	0.54363	0.00000	-0.03208	0.00000	0.27297	0.00000
280765	0.51426	0.00000	0.80668	0.00000	0.23401	0.00000	295860	0.79220	0.00000	-0.42245	0.00000	0.28607	0.00000
287056	0.52378	0.00000	0.29734	0.00000	0.25980	0.00000	287326	1.23379	0.00000	-0.41380	0.00000	0.21907	0.00000
288396	1.05486	0.00000	-0.83103	0.00000	0.25039	0.00000	287387	1.08016	0.00000	-0.60660	0.00000	0.29117	0.00000
208382	1.27430	0.00000	-0.04443	0.00000	0.31217	0.00000	208336	1.43257	0.00000	0.47082	0.00000	0.39028	0.00000
297421	0.75702	0.00000	0.49411	0.00000	0.31986	0.00000	288366	1.29002	0.00000	-0.63018	0.00000	0.22215	0.00000
280801	0.69346	0.00000	-0.07590	0.00000	0.31607	0.00000	287350	1.10747	0.00000	-0.17041	0.00000	0.36679	0.00000
287041	0.35853	0.00000	-1.07818	0.00000	0.00000	0.00000	295924	1.30794	0.00000	0.57021	0.00000	0.41958	0.00000
287202	0.82202	0.00000	1.07103	0.00000	0.41567	0.00000	280946	2.00630	0.00000	1.28340	0.00000	0.25559	0.00000
287220	1.36181	0.00000	-0.29865	0.00000	0.27410	0.00000	287205	0.93866	0.00000	0.56353	0.00000	0.31755	0.00000
246873	0.87633	0.00000	0.44041	0.00000	0.23567	0.00000	295851	0.94459	0.00000	-0.42656	0.00000	0.21837	0.00000
287323	1.07133	0.00000	-0.77106	0.00000	0.22619	0.00000	272796	1.11078	0.00000	-0.20789	0.00000	0.20282	0.00000
272734	1.09166	0.00000	0.48073	0.00000	0.26767	0.00000							
287230	1.37321	0.00000	0.70627	0.00000	0.38148	0.00000							
208387	1.12158	0.00000	0.25950	0.00000	0.23043	0.00000							
293952	1.18676	0.00000	0.21322	0.00000	0.42118	0.00000							

**Table H-38. 2013 MCAS: IRT Parameters for Polytomous Items –
High School Introductory Physics**

<i>Parameters and Measures of Standard Error</i>														
<i>Item Number</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>
280977	1.78445	0.00000	0.68329	0.00000	1.03798	0.00000	0.36677	0.00000	-0.21832	0.00000	-1.18643	0.00000	0.00000	0.00000
287066	1.53508	0.00000	0.38034	0.00000	1.17410	0.00000	0.22747	0.00000	-0.38722	0.00000	-1.01435	0.00000	0.00000	0.00000
287330	1.33847	0.00000	0.02032	0.00000	1.32253	0.00000	0.43632	0.00000	-0.39797	0.00000	-1.36089	0.00000	0.00000	0.00000
287358	1.43184	0.00000	0.71061	0.00000	1.39942	0.00000	0.47903	0.00000	-0.44344	0.00000	-1.43502	0.00000	0.00000	0.00000
295871	1.39235	0.00000	1.31063	0.00000	1.61797	0.00000	0.67402	0.00000	-0.67240	0.00000	-1.61960	0.00000	0.00000	0.00000

**Table H-39. 2013 MCAS: IRT Parameters for Dichotomous Items –
High School Technology/Engineering**

Item Number	Parameters and Measures of Standard Error						Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)		a	SE (a)	b	SE (b)	c	SE (c)
265055	1.00000	0.00000	-0.37577	0.00000	0.00000	0.00000	293179	1.00000	0.00000	-1.16021	0.00000	0.00000	0.00000
274572	1.00000	0.00000	-0.29881	0.00000	0.00000	0.00000	215942	1.00000	0.00000	-0.75722	0.00000	0.00000	0.00000
240039	1.00000	0.00000	0.03689	0.00000	0.00000	0.00000	299110	1.00000	0.00000	-0.28037	0.00000	0.00000	0.00000
273138	1.00000	0.00000	-0.00100	0.00000	0.00000	0.00000	297429	1.00000	0.00000	-0.89389	0.00000	0.00000	0.00000
281428	1.00000	0.00000	0.09752	0.00000	0.00000	0.00000	251770	1.00000	0.00000	-0.38366	0.00000	0.00000	0.00000
274577	1.00000	0.00000	-0.83077	0.00000	0.00000	0.00000	292770	1.00000	0.00000	-0.35076	0.00000	0.00000	0.00000
271567	1.00000	0.00000	0.32395	0.00000	0.00000	0.00000	265122	1.00000	0.00000	-0.94784	0.00000	0.00000	0.00000
230788	1.00000	0.00000	-0.99538	0.00000	0.00000	0.00000	296469	1.00000	0.00000	-0.24081	0.00000	0.00000	0.00000
264191	1.00000	0.00000	-0.68741	0.00000	0.00000	0.00000	281364	1.00000	0.00000	-0.37235	0.00000	0.00000	0.00000
289903	1.00000	0.00000	-0.86797	0.00000	0.00000	0.00000	230878	1.00000	0.00000	0.08636	0.00000	0.00000	0.00000
273093	1.00000	0.00000	0.01980	0.00000	0.00000	0.00000	289918	1.00000	0.00000	-0.63221	0.00000	0.00000	0.00000
283383	1.00000	0.00000	-1.31744	0.00000	0.00000	0.00000	287810	1.00000	0.00000	-0.86027	0.00000	0.00000	0.00000
267206	1.00000	0.00000	0.07213	0.00000	0.00000	0.00000	281107	1.00000	0.00000	-0.50643	0.00000	0.00000	0.00000
287803	1.00000	0.00000	-0.02041	0.00000	0.00000	0.00000	287792	1.00000	0.00000	-0.51468	0.00000	0.00000	0.00000
296433	1.00000	0.00000	0.99275	0.00000	0.00000	0.00000	287845	1.00000	0.00000	-0.01230	0.00000	0.00000	0.00000
289914	1.00000	0.00000	-0.05738	0.00000	0.00000	0.00000	294384	1.00000	0.00000	-0.77481	0.00000	0.00000	0.00000
283453	1.00000	0.00000	-0.55533	0.00000	0.00000	0.00000	265035	1.00000	0.00000	-0.45099	0.00000	0.00000	0.00000
273153	1.00000	0.00000	-0.45057	0.00000	0.00000	0.00000	287844	1.00000	0.00000	-0.61461	0.00000	0.00000	0.00000
289938	1.00000	0.00000	-0.48903	0.00000	0.00000	0.00000							
283362	1.00000	0.00000	0.24043	0.00000	0.00000	0.00000							
283405	1.00000	0.00000	0.32432	0.00000	0.00000	0.00000							
265155	1.00000	0.00000	-0.61458	0.00000	0.00000	0.00000							

**Table H-40. 2013 MCAS: IRT Parameters for Polytomous Items –
High School Technology/Engineering**

Item Number	Parameters and Measures of Standard Error													
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
260817	1.00000	0.00000	0.73089	0.00000	1.49119	0.00000	0.47025	0.00000	-0.24832	0.00000	-1.65725	0.00000	0.00000	0.00000
268441	1.00000	0.00000	0.56954	0.00000	1.22152	0.00000	0.14086	0.00000	-0.45088	0.00000	-0.91151	0.00000	0.00000	0.00000
274622	1.00000	0.00000	1.06904	0.00000	1.74207	0.00000	0.70369	0.00000	-0.43772	0.00000	-2.00803	0.00000	0.00000	0.00000
294424	1.00000	0.00000	-0.00013	0.00000	1.26044	0.00000	0.42878	0.00000	-0.45841	0.00000	-1.23081	0.00000	0.00000	0.00000
296472	1.00000	0.00000	0.98801	0.00000	1.89434	0.00000	0.30239	0.00000	-0.67046	0.00000	-1.52627	0.00000	0.00000	0.00000

