

APPENDIX H

ITEM RESPONSE THEORY PARAMETERS

**Table H-1. 2014 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 3**

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)
292666	1.52994	0.02586	-0.67423	0.01432	0.46367	0.00609	292734	1.79257	0.02420	-0.14824	0.00738	0.24804	0.00412
292668	1.26284	0.01668	-0.96301	0.01345	0.22032	0.00650	297068	0.78429	0.01517	-2.80469	0.05956	0.21357	0.02365
292669	0.82674	0.02034	-1.83030	0.05563	0.59975	0.01229	297071	0.49769	0.00633	-3.35922	0.03381	0.00000	0.00000
292672	1.08496	0.01520	-0.29272	0.01181	0.19022	0.00533	297073	0.84155	0.01617	-0.40289	0.02258	0.34584	0.00757
292674	0.73831	0.01592	-0.61571	0.03185	0.39867	0.00910	297074	1.25514	0.01883	-1.45675	0.01878	0.29361	0.00844
292680	1.08136	0.01559	-1.14860	0.01839	0.26206	0.00788	297079	1.04397	0.01710	-1.86707	0.02787	0.31499	0.01100
292677	0.90137	0.01498	-0.77341	0.02171	0.30972	0.00799	297083	0.97340	0.01573	-1.74408	0.02821	0.30433	0.01084
292665	1.20123	0.01853	-0.33436	0.01305	0.30447	0.00573	297082	1.01803	0.01564	-1.00055	0.01988	0.30251	0.00797
292685	1.02166	0.02014	-0.59449	0.02285	0.48074	0.00722	297085	0.80070	0.01291	-0.74373	0.02193	0.22541	0.00806
292686	1.03301	0.01714	-0.46339	0.01702	0.33024	0.00666	297086	0.54509	0.00653	-3.15026	0.02920	0.00000	0.00000
301532	0.63825	0.00666	-2.24173	0.01849	0.00000	0.00000	297087	1.02168	0.01645	-1.01669	0.02125	0.34439	0.00818
301534	0.96603	0.01446	-1.04239	0.02021	0.26269	0.00811	292613	0.78646	0.01389	-2.12223	0.04241	0.27188	0.01495
301535	0.59447	0.00629	-2.10744	0.01839	0.00000	0.00000	292617	0.56646	0.00659	-3.00881	0.02692	0.00000	0.00000
301537	1.17778	0.02069	-1.98710	0.02774	0.36499	0.01109	292615	0.68016	0.01448	-0.34232	0.02814	0.29633	0.00868
301540	0.63695	0.01180	-0.56016	0.02713	0.18241	0.00892	292621	1.02235	0.01844	-1.53452	0.02936	0.43035	0.01010
301544	1.24136	0.01601	-0.91783	0.01295	0.19917	0.00626	292624	1.18581	0.01795	-0.62767	0.01492	0.31953	0.00647
292726	0.28179	0.00541	-4.41593	0.07567	0.00000	0.00000							
292725	1.11566	0.01860	-0.18608	0.01385	0.31351	0.00572							
292729	0.70653	0.01188	-0.65476	0.02364	0.18256	0.00829							
292736	1.34913	0.01775	-0.50572	0.01058	0.22494	0.00532							

**Table H-2. 2014 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 3**

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)
294033	0.5076	0.00265	-1.57325	0.00914	2.10292	0.01836	-2.10292	0.00985	0	0				
297091	0.6047	0.00355	-1.80746	0.00818	1.51178	0.01615	-1.51178	0.00825	0	0				
297092	0.62494	0.00291	-0.53169	0.00752	1.60851	0.01116	-1.60851	0.009	0	0				
301546	0.73161	0.00338	-0.35854	0.00674	1.56686	0.00984	-1.56686	0.00837	0	0				
292692	0.62229	0.00234	-0.63494	0.00688	3.44573	0.0209	1.04784	0.0098	-1.19718	0.00824	-3.29639	0.01517	0	0

**Table H-3. 2014 MCAS: IRT Parameters for Dichotomous Items –
ELA 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)
298587	0.63166	0.01115	-0.34060	0.03131	0.16427	0.01078	291167	0.99161	0.01475	-1.48596	0.02673	0.18020	0.01365
298591	0.90237	0.01744	-1.77992	0.04678	0.36160	0.01976	298673	0.62469	0.01111	-1.63923	0.05511	0.15036	0.02212
298593	0.43753	0.01007	-1.26396	0.08613	0.13096	0.02555	298675	0.50352	0.01330	0.58931	0.03927	0.23711	0.01042
298594	0.77380	0.01239	-1.87935	0.04290	0.13797	0.02080	298678	0.70852	0.01211	-1.59713	0.04655	0.18063	0.01976
298595	0.59713	0.00922	-1.80412	0.04759	0.06817	0.01968	298680	0.71356	0.01205	-0.90838	0.03478	0.20639	0.01320
298598	0.82082	0.01320	-2.13083	0.04372	0.12869	0.02302	298681	1.02890	0.01323	-0.64469	0.01539	0.13734	0.00725
302587	0.46854	0.01135	-1.22164	0.08704	0.20893	0.02511	298684	0.58274	0.01068	-1.21654	0.05137	0.14804	0.01858
302588	0.58454	0.00604	-1.41216	0.01477	0.00000	0.00000	298688	0.53232	0.01076	0.02177	0.03548	0.13447	0.01101
302590	0.62416	0.00711	-2.15554	0.02041	0.00000	0.00000	298689	0.67600	0.01197	-1.65934	0.05203	0.18368	0.02153
302594	1.12818	0.01667	-1.72588	0.02430	0.14789	0.01401	298690	0.48226	0.01220	-0.30484	0.06095	0.24438	0.01597
302596	0.89478	0.01259	-1.79067	0.02941	0.08936	0.01546	298701	0.50423	0.01087	-1.18213	0.06993	0.17463	0.02208
302602	0.70041	0.01175	-1.74713	0.04814	0.15072	0.02125	302825	0.67350	0.01119	-1.43993	0.04384	0.14489	0.01809
302600	0.83672	0.01307	-1.68264	0.03622	0.15971	0.01759	302826	0.94826	0.01299	-0.86516	0.01989	0.15617	0.00919
302608	0.85682	0.01264	-1.67582	0.03229	0.12304	0.01619	302831	0.69226	0.01169	-1.24618	0.04086	0.17986	0.01625
302603	0.66453	0.01242	-0.28412	0.03185	0.23811	0.01049	302833	0.58148	0.01006	-0.76790	0.03912	0.11084	0.01383
302606	0.60589	0.00882	-1.62996	0.04021	0.05474	0.01634	302836	0.56458	0.00943	-1.92005	0.05835	0.08339	0.02353
291154	1.11008	0.01507	-1.49238	0.02045	0.11720	0.01130							
291155	0.81487	0.01066	-0.96721	0.02170	0.07647	0.00961							
291156	0.60216	0.01060	-1.07425	0.04477	0.14039	0.01639							
291163	0.79039	0.01007	-0.80518	0.01984	0.05931	0.00845							

**Table H-4. 2014 MCAS: IRT Parameters for Polytomous Items –
ELA 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)
291174	1.03838	0.00414	0.07299	0.00433	2.33435	0.01051	1.02817	0.00643	-0.68279	0.00569	-2.67974	0.01229	0	0
298601	0.61155	0.00233	0.11811	0.00711	4.15337	0.02365	0.996	0.00894	-1.43696	0.00949	-3.71241	0.02029	0	0
298700	0.8498	0.00331	-0.05529	0.00525	3.00935	0.01589	1.08376	0.0076	-1.04256	0.00679	-3.05056	0.01414	0	0
302610	0.90211	0.00352	0.76381	0.00481	2.34478	0.00843	0.81473	0.00606	-0.79194	0.00745	-2.36757	0.01527	0	0
287980C	0.93384	0.00387	-1.74717	0.00466	3.20083	0.05301	2.33022	0.02935	-0.08859	0.0085	-0.72534	0.00692	-2.0017	0.00584
287980T	0.87221	0.00304	0.35598	0.00473	4.55788	0.03059	3.95481	0.02139	2.22454	0.0094	1.70327	0.00787	0.33463	0.00615

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)
291174												
298601												
298700												
302610												
287980C	-2.71543	0.00632	0	0								
287980T	-0.16406	0.0062	-1.43073	0.00813	-2.22033	0.01133	-3.97888	0.03234	-4.98113	0.06539	0	0

Table H-5. 2014 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)
302374	0.70915	0.01144	-0.03244	0.02090	0.14260	0.00759	283510	0.47653	0.00518	-0.96758	0.01403	0.00000	0.00000
302377	0.83305	0.01393	-0.87291	0.02957	0.29336	0.01114	286685	1.05254	0.01838	-0.89019	0.02554	0.41747	0.00956
302376	0.48123	0.01361	-1.55342	0.11494	0.36218	0.02854	286686	0.57632	0.01113	-1.47882	0.06069	0.17939	0.02154
302382	0.69196	0.01218	-1.81502	0.05284	0.18852	0.02222	286687	0.79679	0.01386	-1.41890	0.03996	0.28041	0.01590
302385	0.49764	0.00566	-1.78680	0.01977	0.00000	0.00000	286689	0.65860	0.01051	-0.28612	0.02472	0.11351	0.00892
302386	0.84340	0.01380	0.45827	0.01430	0.17608	0.00530	286692	0.65139	0.01200	-0.73619	0.03826	0.22986	0.01293
283312	0.77232	0.01337	-1.69512	0.04506	0.23480	0.01917	286694	0.60538	0.01215	0.08094	0.02973	0.19446	0.00939
283314	0.85517	0.01242	-1.35113	0.02826	0.15434	0.01295	286695	0.65960	0.01185	-0.42475	0.03161	0.20594	0.01072
283323	0.82519	0.01011	-2.62637	0.02114	0.00000	0.00000	286697	0.79193	0.01177	-1.44158	0.03227	0.13853	0.01448
283325	0.97532	0.01396	-0.37528	0.01689	0.21875	0.00709	286700	0.52917	0.00624	-2.22812	0.02326	0.00000	0.00000
283327	0.57344	0.00648	-2.12389	0.02081	0.00000	0.00000	286701	0.75721	0.01352	-0.77840	0.03346	0.29946	0.01163
283334	1.10683	0.01559	-1.33182	0.02080	0.19056	0.01067	292545	0.24157	0.00428	-0.14627	0.01947	0.00000	0.00000
283358	0.78980	0.01197	-0.42582	0.02190	0.17576	0.00849	292548	0.74636	0.01284	-0.00903	0.02194	0.21341	0.00772
283365	0.72915	0.01223	-0.33289	0.02559	0.20753	0.00915	292552	0.39850	0.01311	0.63274	0.05727	0.18042	0.01409
283363	0.32040	0.00476	-1.91957	0.03043	0.00000	0.00000	292553	0.94275	0.01639	-0.60885	0.02510	0.37913	0.00893
283370	0.71618	0.01439	0.21407	0.02458	0.28371	0.00774	292558	0.79200	0.01245	-0.05162	0.01897	0.18011	0.00711
283505	0.40220	0.00484	-0.84603	0.01541	0.00000	0.00000							
283507	0.72352	0.01283	-1.77851	0.05078	0.21874	0.02128							
283508	0.82477	0.01404	0.14289	0.01852	0.23824	0.00664							
283509	0.87261	0.01517	0.14526	0.01830	0.28067	0.00648							

**Table H-6. 2014 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>
283382	0.74582	0.00281	0.38214	0.00569	2.66873	0.01145	0.99984	0.00733	-0.85446	0.00769	-2.81411	0.01607	0	0
283516	0.85322	0.00326	0.23063	0.00509	2.5899	0.01136	1.01306	0.0069	-0.92806	0.0069	-2.6749	0.01397	0	0
286706	0.78125	0.00297	-0.05917	0.00552	3.06321	0.01598	0.91201	0.0076	-1.02502	0.00708	-2.9502	0.01384	0	0
302388	0.73424	0.00283	-0.61476	0.00598	3.3297	0.02339	1.21948	0.00989	-1.22441	0.00714	-3.32476	0.01277	0	0

**Table H-7. 2014 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>
297943	0.43206	0.01392	-0.69166	0.10566	0.39694	0.02095	302788	0.93588	0.01330	-0.66938	0.02050	0.21478	0.00874
297944	0.64652	0.01110	-1.15771	0.04301	0.19954	0.01552	303175	0.75283	0.01151	-0.87453	0.02927	0.18696	0.01144
297947	0.43879	0.01076	-0.38947	0.06524	0.17566	0.01713	303178	0.89824	0.01340	-1.63048	0.03092	0.17669	0.01468
297948	0.69850	0.01219	-0.75358	0.03554	0.25765	0.01226	303193	0.74154	0.01178	-0.54630	0.02733	0.20721	0.01009
297950	0.72531	0.01689	-2.97958	0.10123	0.31420	0.04394	303184	0.82348	0.01227	0.30048	0.01507	0.14797	0.00574
303465	0.67460	0.01326	0.54042	0.02217	0.21955	0.00713	303186	0.61965	0.00693	-2.13564	0.02081	0.00000	0.00000
303466	0.69240	0.01336	-1.76427	0.05900	0.31242	0.02130	303189	0.89233	0.01357	-0.87476	0.02538	0.25238	0.01042
303471	0.87018	0.01237	-1.26811	0.02677	0.16431	0.01205	303181	0.96844	0.01421	-1.43321	0.02656	0.19696	0.01268
303472	0.91674	0.01259	0.03318	0.01440	0.15508	0.00588	303194	0.51169	0.01064	-0.54409	0.05080	0.18195	0.01497
303474	0.68459	0.01187	-1.64309	0.04944	0.21851	0.01927	303196	0.67232	0.01504	1.03424	0.01971	0.22824	0.00605
303481	1.12802	0.01506	-0.39055	0.01435	0.21381	0.00658	303187	0.96541	0.01421	-1.76475	0.02892	0.15673	0.01463
303480	0.57653	0.00595	-1.42818	0.01569	0.00000	0.00000	266494	0.82047	0.01268	0.12284	0.01761	0.18964	0.00661
303478	1.02077	0.01576	-1.01165	0.02401	0.29714	0.01040	266498	0.91965	0.01416	0.13154	0.01612	0.23224	0.00620
303485	0.33022	0.00516	-2.76888	0.04359	0.00000	0.00000	266509	0.79793	0.01253	-0.41243	0.02402	0.22868	0.00899
303486	0.77040	0.01342	-0.23431	0.02619	0.28583	0.00891	266510	0.87001	0.01306	-0.52251	0.02216	0.23311	0.00880
302777	1.19248	0.01625	-0.02802	0.01204	0.22655	0.00540	266527	0.71290	0.01387	0.16139	0.02621	0.29333	0.00818
302779	0.72591	0.01171	-0.53276	0.02817	0.20767	0.01024							
302782	0.59411	0.00962	-0.84105	0.03668	0.11090	0.01296							
302785	0.46478	0.00520	-1.21480	0.01692	0.00000	0.00000							
302786	0.55467	0.00979	-0.76990	0.04222	0.12780	0.01402							

**Table H-8. 2014 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 6**

<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>
297954	0.62888	0.0024	-0.90934	0.0068	3.21314	0.02515	1.21241	0.01193	-1.02932	0.008	-3.39622	0.01163	0	0
302790	1.02969	0.00412	0.80814	0.00422	1.68295	0.00654	0.73283	0.00544	-0.53689	0.00617	-1.87889	0.01136	0	0
303199	0.74788	0.0029	-0.78889	0.00577	3.37656	0.02731	0.90959	0.00981	-1.14794	0.00693	-3.13821	0.01037	0	0
303489	0.93506	0.00367	-0.29467	0.00472	2.84899	0.01715	0.8688	0.0075	-1.03884	0.00594	-2.67895	0.00981	0	0

**Table H-9. 2014 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 7**

<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>
304140	0.74838	0.01319	-0.00521	0.02256	0.16904	0.00878	285618	1.18096	0.01881	-0.75201	0.02035	0.32912	0.00969
304135	0.66420	0.01320	-1.72093	0.06799	0.20112	0.02960	279985	0.88775	0.01765	-0.17804	0.02605	0.38573	0.00892
304138	0.81387	0.01626	-2.06407	0.06632	0.26899	0.03354	279991	0.57072	0.01249	-1.16441	0.06732	0.18845	0.02413
304139	0.85676	0.01274	-0.89028	0.02597	0.13987	0.01238	280007	0.91055	0.01458	-1.25733	0.03240	0.20417	0.01625
304141	0.97798	0.01604	-1.49059	0.03436	0.22349	0.01852	280008	0.75823	0.01357	-1.41916	0.04719	0.20343	0.02153
304143	0.92433	0.01577	-0.52085	0.02485	0.29701	0.01021	280012	0.91498	0.01477	-0.35843	0.02132	0.23949	0.00907
285654	0.95720	0.01434	-1.33577	0.02893	0.15799	0.01572	280083	0.75284	0.01344	-0.74077	0.03460	0.21768	0.01394
285655	0.87898	0.01652	-0.27130	0.02574	0.34104	0.00941	280002	0.73958	0.01321	-0.35476	0.02857	0.19579	0.01110
285656	1.36829	0.01948	-0.95808	0.01622	0.23153	0.00949	280082	1.03002	0.01646	-0.67625	0.02241	0.28905	0.01016
285657	0.73583	0.01331	-0.60196	0.03337	0.21185	0.01308	280087	0.88370	0.01525	-0.86323	0.03096	0.28101	0.01321
285658	1.36273	0.01899	-0.80200	0.01494	0.23244	0.00850	297219	0.63949	0.00735	-1.87646	0.01905	0.00000	0.00000
285662	1.04788	0.01492	-0.55364	0.01770	0.19840	0.00865	297224	0.95874	0.01408	-1.25624	0.02716	0.14996	0.01463
285663	1.14231	0.01578	-0.51962	0.01548	0.20332	0.00786	297238	0.73630	0.01373	-0.36095	0.03055	0.22790	0.01147
285665	0.99829	0.01478	-0.23699	0.01652	0.20490	0.00750	297228	0.92554	0.01550	0.35599	0.01444	0.20296	0.00591
285671	0.46330	0.00545	-0.52367	0.01220	0.00000	0.00000	297233	0.56231	0.00636	-1.47898	0.01688	0.00000	0.00000
285664	1.15028	0.01711	-0.59445	0.01772	0.26763	0.00865	297231	1.47385	0.02133	-0.70590	0.01399	0.28544	0.00783
285617	0.90599	0.01217	-1.40140	0.02587	0.07238	0.01417							
285619	1.16633	0.01946	-1.81110	0.03195	0.20532	0.02078							
285624	0.97566	0.01283	-1.09296	0.02103	0.09037	0.01134							
285630	1.23058	0.01684	-1.22583	0.01876	0.14643	0.01146							

**Table H-10. 2014 MCAS: IRT Parameters for Polytomous Items –
ELA Grade 7**

<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>
280092	0.80795	0.00321	-0.93368	0.00519	2.05803	0.0161	0.70866	0.00887	-0.64324	0.00643	-2.12344	0.00709	0	0
285633	1.12209	0.00445	-0.42308	0.0038	1.47788	0.00887	0.70774	0.00632	-0.45263	0.00489	-1.73299	0.00597	0	0
285675	1.22821	0.00482	-0.17341	0.00358	1.72532	0.00866	0.76588	0.00566	-0.41761	0.00458	-2.0736	0.00765	0	0
304146	0.71251	0.00267	-0.25056	0.00598	2.86729	0.01691	1.15839	0.00881	-0.74808	0.00705	-3.2776	0.01513	0	0
305031C	1.05832	0.00473	-2.17033	0.00429	3.01949	0.09215	2.40726	0.05524	-0.14032	0.0097	-0.6575	0.0076	-2.00891	0.0052
305031T	1.01408	0.00355	0.2013	0.00408	4.24025	0.03493	3.78892	0.0252	2.29545	0.01007	1.82555	0.00809	0.41721	0.00538

<i>Item Number</i>	<i>Parameters and Measures of Standard Error</i>													
	<i>D5</i>	<i>SE (D5)</i>	<i>D6</i>	<i>SE (D6)</i>	<i>D7</i>	<i>SE (D7)</i>	<i>D8</i>	<i>SE (D8)</i>	<i>D9</i>	<i>SE (D9)</i>	<i>D10</i>	<i>SE (D10)</i>		
280092														
285633														
285675														
304146														
305031C	-2.62002	0.00516	0	0										
305031T	-0.13873	0.00524	-1.49393	0.00731	-2.2613	0.01117	-3.99654	0.04159	-4.67688	0.07362	0	0		

**Table H-11. 2014 MCAS: IRT Parameters for Dichotomous Items –
ELA Grade 8**

<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>
271610	1.10164	0.01658	-0.53183	0.01755	0.30240	0.00768	302295	0.96920	0.01538	-1.49746	0.02994	0.24318	0.01354
271604	1.20239	0.01675	-0.88871	0.01682	0.24865	0.00826	302296	0.53724	0.01311	-0.65812	0.05775	0.26826	0.01622
271611	0.89700	0.01519	-0.77894	0.02680	0.32777	0.01016	302300	0.42619	0.00527	-1.10725	0.01723	0.00000	0.00000
271606	1.21544	0.01600	-0.30782	0.01214	0.20929	0.00598	302302	0.94166	0.01364	-1.07898	0.02336	0.20011	0.01041
271609	0.85897	0.01411	-0.08112	0.01857	0.22987	0.00729	302305	0.42282	0.00522	-0.74025	0.01455	0.00000	0.00000
271618	0.84950	0.01325	-0.66510	0.02361	0.22700	0.00949	302310	0.95475	0.02072	0.51398	0.01696	0.37789	0.00575
302289	0.92871	0.01627	-1.68033	0.03796	0.29443	0.01629	291455	1.33949	0.02049	-1.25879	0.01907	0.29499	0.00970
302290	0.70375	0.01294	-1.37681	0.04574	0.24012	0.01698	291453	0.94232	0.01584	-1.47638	0.03306	0.29338	0.01405
302292	0.78737	0.01279	-0.72929	0.02710	0.22070	0.01047	294184	1.13667	0.01659	-1.09397	0.02021	0.26148	0.00960
302294	0.73910	0.01434	-0.43714	0.03123	0.31419	0.01033	291462	0.67382	0.01446	0.42603	0.02224	0.21201	0.00764

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
303829	0.98122	0.01671	-1.44868	0.03209	0.32299	0.01351
303832	1.26429	0.01852	-0.60923	0.01559	0.31492	0.00735
303833	1.18532	0.01627	-0.21267	0.01253	0.23022	0.00597
303855	0.95582	0.01717	-0.12863	0.02011	0.35919	0.00733
303860	0.84200	0.01374	-0.21895	0.02018	0.23038	0.00787
303848	1.06290	0.01659	-0.76276	0.02090	0.32458	0.00886
303849	0.48775	0.00625	-2.45138	0.02881	0.00000	0.00000
303852	1.18919	0.01487	-0.15013	0.01053	0.15471	0.00519

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
303864	0.85012	0.01561	-1.54157	0.04176	0.32890	0.01616
303863	1.14975	0.01650	0.20506	0.01068	0.20240	0.00492
286118	0.41648	0.00523	-1.09061	0.01743	0.00000	0.00000
286151	1.10042	0.01752	-0.33977	0.01733	0.33998	0.00718
286146	1.24251	0.01814	-0.26355	0.01353	0.29853	0.00627
286153	0.89749	0.01541	-1.69060	0.03833	0.26195	0.01668
286159	1.20861	0.01669	-0.70550	0.01550	0.25198	0.00756
286158	0.74721	0.01342	-0.17352	0.02417	0.23269	0.00871

Table H-12. 2014 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)
271621	0.94135	0.0037	-0.88434	0.00455	2.06608	0.01506	0.81302	0.00865	-0.60451	0.00574	-2.27459	0.00677	0	0
291463	1.01563	0.00394	-0.55933	0.00422	1.84772	0.01164	0.8324	0.00746	-0.55635	0.00525	-2.12378	0.00695	0	0
302312	0.94617	0.00362	-0.50676	0.00444	2.18373	0.0134	0.69019	0.00719	-0.72084	0.00548	-2.15308	0.00744	0	0
303867	0.95725	0.00373	-0.58426	0.00449	2.34257	0.01491	0.92886	0.00805	-1.00079	0.00547	-2.27064	0.00753	0	0

Table H-13. 2014 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)
304075	0.99796	0.01529	-2.02224	0.03197	0.11334	0.01935
304079	0.76864	0.01293	-0.97094	0.03096	0.19552	0.01298
304083	0.64358	0.01699	-0.43582	0.04890	0.42503	0.01270
304285	0.55170	0.01359	-2.13991	0.10819	0.24684	0.03919
304084	0.87536	0.01493	-0.90048	0.02762	0.28264	0.01148
304086	0.47958	0.00621	-2.11732	0.02369	0.00000	0.00000
304288	0.58563	0.01381	-1.14006	0.06443	0.28628	0.02043
304092	0.40527	0.00594	-2.39525	0.03115	0.00000	0.00000
302674	0.59330	0.00704	-2.11824	0.02016	0.00000	0.00000

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
302677	0.73300	0.01157	-0.92018	0.02839	0.12089	0.01217
302678	0.88433	0.01448	-2.11221	0.04139	0.13103	0.02366
302680	0.93244	0.01357	-1.92443	0.03043	0.08635	0.01750
285981	0.83175	0.01309	-0.30495	0.01891	0.16901	0.00790
285986	0.53804	0.01292	-0.97224	0.06467	0.22457	0.02026
285987	1.11542	0.01782	-1.87970	0.02906	0.17995	0.01759
285985	0.68434	0.01115	-0.67988	0.02761	0.10456	0.01116
292391	0.81336	0.00000	-2.43446	0.00000	0.23528	0.00000
292399	0.57196	0.00000	-1.79850	0.00000	0.17468	0.00000

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
292403	0.82371	0.00000	-1.12587	0.00000	0.16087	0.00000
292406	0.77916	0.00000	-1.57486	0.00000	0.12220	0.00000
292408	0.53680	0.00000	-1.99382	0.00000	0.15374	0.00000
292409	0.68246	0.00000	-2.03293	0.00000	0.10554	0.00000
292405	0.43666	0.00000	-1.75985	0.00000	0.17984	0.00000
292412	0.51073	0.00000	-1.77199	0.00000	0.10738	0.00000
299021	0.59469	0.01067	-1.48945	0.05086	0.09675	0.02059
299025	0.78657	0.01426	-1.89238	0.04974	0.20238	0.02404
299026	0.39699	0.01653	0.00463	0.09822	0.29770	0.02093

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
299029	0.68606	0.00774	-2.08391	0.01779	0.00000	0.00000
299031	0.79209	0.01235	-1.18422	0.02974	0.14316	0.01362
299028	0.45750	0.00611	-2.16842	0.02525	0.00000	0.00000
299034	0.99549	0.01853	-1.82196	0.04005	0.31730	0.01980
299036	0.87682	0.01667	-2.10893	0.05225	0.25241	0.02689
303913	0.53658	0.00000	-0.13485	0.00000	0.18064	0.00000
304308	0.68200	0.00000	-1.53204	0.00000	0.18896	0.00000
303920	0.54826	0.00000	-0.82531	0.00000	0.21617	0.00000
303925	1.21804	0.00000	-0.99523	0.00000	0.20540	0.00000

Table H-14. 2014 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)
292414	1.20895	0.00489	-0.87199	0.00371	1.82152	0.0119	0.89428	0.00721	-0.55195	0.00473	-2.16384	0.00637	0	0
299038	0.84361	0.00328	-1.22738	0.00514	2.53298	0.02164	0.96142	0.00983	-0.73612	0.00624	-2.75828	0.00834	0	0
302690	1.11925	0.00443	-0.85653	0.00391	2.22978	0.01525	0.75616	0.00698	-0.78471	0.00494	-2.20123	0.00675	0	0
304095	0.99559	0.00403	-1.36907	0.00451	2.68494	0.02821	0.95655	0.01005	-0.85629	0.00555	-2.78521	0.00738	0	0
299622C	1.21046	0.00594	-2.76994	0.00419	2.82427	0.14827	2.37959	0.09507	-0.10392	0.01214	-0.56515	0.00919	-1.96078	0.0051
299622T	1.11959	0.00408	-0.47338	0.00385	4.34308	0.06236	3.95632	0.04457	2.35735	0.01347	1.93223	0.01044	0.44903	0.0055

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)
292414												
299038												
302690												
304095												
299622C	-2.57401	0.0047	0	0								
299622T	-0.10729	0.00499	-1.75554	0.00652	-2.48282	0.00954	-4.12406	0.03453	-4.56828	0.05136	0	0

**Table H-15. 2014 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 3**

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)
202991	1.02973	0.01681	-1.62722	0.03306	0.16814	0.01959	253627	0.85149	0.01491	-2.58223	0.05119	0.08506	0.03152
227239	0.60970	0.00962	-0.79932	0.03944	0.08274	0.01554	303798	0.68647	0.01224	-2.72072	0.06889	0.09764	0.03761
203731	0.64506	0.01316	-2.33307	0.09305	0.18036	0.04504	279762	0.79711	0.01421	-1.62230	0.05055	0.20877	0.02479
293452	1.01584	0.01574	-0.67619	0.02355	0.26916	0.01085	252339	0.69692	0.01106	-1.48802	0.04573	0.10212	0.02164
300737	0.81929	0.01435	0.79783	0.01773	0.24334	0.00591	309883	0.61351	0.01397	-1.34481	0.08092	0.34551	0.02652
202999	0.60101	0.01034	-1.15180	0.05207	0.11568	0.02093	207015	0.90982	0.01255	-0.69332	0.02223	0.13878	0.01065
293709	0.91468	0.01312	0.33453	0.01549	0.18212	0.00615	303398	1.07887	0.01429	-0.13915	0.01452	0.17711	0.00679
300030	0.73167	0.01149	-0.66680	0.03251	0.15979	0.01346	300732	0.71197	0.01268	0.10325	0.02853	0.24718	0.00964
218466	0.81831	0.01056	-0.61963	0.02125	0.07103	0.00969	227228	0.88869	0.01286	-0.01048	0.01871	0.19027	0.00769
212474	0.93425	0.01392	-0.48208	0.02258	0.22448	0.01000	253701	0.49543	0.00858	-1.73404	0.07066	0.07788	0.02682
253628	0.75704	0.01203	-1.15454	0.03841	0.15120	0.01765	297497	0.71607	0.00648	1.28765	0.00888	0.00000	0.00000
258208	1.02135	0.01363	-0.66152	0.01863	0.14274	0.00942	300056	0.63886	0.00572	0.38084	0.00818	0.00000	0.00000
227489	0.54029	0.01724	1.62183	0.03142	0.30263	0.00777	300744	0.69969	0.00628	1.14499	0.00858	0.00000	0.00000
207007	0.76541	0.01239	-0.80027	0.03448	0.19956	0.01450	260581	0.76541	0.00724	-1.00412	0.01120	0.00000	0.00000
282100	0.70202	0.00848	-1.07756	0.02403	0.02991	0.01019	297639	0.58153	0.00544	0.17756	0.00902	0.00000	0.00000
227236	0.85961	0.01177	-0.37210	0.02050	0.13163	0.00909	260574	0.69316	0.00723	-1.42622	0.01507	0.00000	0.00000

**Table H-16. 2014 MCAS: IRT Parameters for Polytomous Items –
Mathematics Grade 3**

Item Number	Parameters and Measures of Standard Error									
	a	SE (a)	b	SE (b)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)
293506	0.56794	0.00392	-1.09678	0.0106	0.61429	0.01184	-0.61429	0.00942	0	0
297442	0.749	0.0058	-1.00389	0.00963	0.25154	0.00913	-0.25154	0.0081	0	0
297641	0.56968	0.00293	-0.50574	0.00814	1.41101	0.01251	-1.41101	0.009	0	0
303815	0.69207	0.00397	-0.17648	0.00694	0.69808	0.0087	-0.69808	0.00757	0	0

**Table H-17. 2014 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)
297613	0.98035	0.01454	-1.73991	0.03183	0.08639	0.01938	298095	0.93937	0.01594	0.72607	0.01403	0.20791	0.00565
227456	0.91527	0.01839	-1.29215	0.04836	0.39378	0.02036	293686	1.26218	0.01927	0.26175	0.01303	0.30646	0.00590
293693	0.89661	0.01397	-0.45924	0.02517	0.22084	0.01129	222082	0.98539	0.01419	-0.87556	0.02438	0.16452	0.01282
279769	1.43902	0.02751	0.73941	0.01200	0.44753	0.00440	258275	1.12043	0.01779	-1.06848	0.02638	0.25294	0.01440
247731	1.04660	0.01708	0.52141	0.01416	0.26054	0.00587	247695	0.80480	0.01572	-0.13665	0.03178	0.34488	0.01107
301802	0.86680	0.01474	-0.97543	0.03625	0.25519	0.01658	301811	1.33022	0.02805	0.81282	0.01377	0.48654	0.00449
247529	0.88076	0.01444	-1.60240	0.04168	0.15810	0.02311	287237	0.82546	0.01194	-1.03856	0.03019	0.10350	0.01511
303321	1.28187	0.01451	-0.05932	0.00963	0.09346	0.00515	302793	0.81511	0.01473	-1.78980	0.05502	0.19778	0.02901
301822	0.76123	0.01063	-1.23155	0.03195	0.06476	0.01563	297979	1.48769	0.01914	0.91172	0.00646	0.12029	0.00290
218875	0.85779	0.01316	-1.53913	0.03754	0.11410	0.02068	218895	1.08372	0.01979	0.59771	0.01529	0.35091	0.00575
301797	0.45228	0.01533	-0.80308	0.12859	0.36252	0.02986	298093	0.78633	0.01337	0.77372	0.01507	0.12183	0.00597
301805	0.79516	0.01267	-0.61976	0.03059	0.17637	0.01349	293508	0.86613	0.00736	-0.03036	0.00680	0.00000	0.00000
280718	0.66272	0.01329	-0.14921	0.03800	0.23319	0.01325	302480	0.57486	0.00612	-0.76538	0.01327	0.00000	0.00000
258204	0.59575	0.00722	-1.75914	0.02208	0.00000	0.00000	302407	0.57670	0.00593	0.35895	0.00859	0.00000	0.00000
301798	0.74688	0.01222	-0.43511	0.03050	0.16355	0.01273	258228	0.62258	0.00697	-1.40726	0.01759	0.00000	0.00000
303333	0.83447	0.01563	-0.12281	0.02907	0.33057	0.01056	297983	0.45084	0.00580	-1.33107	0.02188	0.00000	0.00000
301796	0.94511	0.01771	-2.48614	0.05226	0.12083	0.03390	279788	0.78180	0.00788	-1.18038	0.01304	0.00000	0.00000
270728	1.16440	0.01806	0.02959	0.01603	0.31336	0.00716							
279725	0.60928	0.01515	-0.88378	0.07525	0.37657	0.02233							
279775	1.02000	0.01318	-0.07322	0.01434	0.12612	0.00698							
302485	1.62420	0.03252	0.24095	0.01468	0.56884	0.00515							

**Table H-18. 2014 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)
227192	0.97417	0.00434	0.36116	0.0044	1.12525	0.00678	0.11026	0.00548	-0.35982	0.00546	-0.87569	0.00589	0	0
302495	1.03765	0.00427	0.76319	0.0041	1.28358	0.00609	0.28958	0.00518	-0.30934	0.00541	-1.26381	0.00738	0	0
303336	0.86412	0.00384	-0.79239	0.00516	1.31571	0.01205	0.5422	0.00863	-0.21588	0.00684	-1.64203	0.00614	0	0
304983	1.04477	0.00511	0.22066	0.00431	0.70577	0.006	0.06051	0.00526	-0.07898	0.00519	-0.68729	0.00532	0	0

**Table H-19. 2014 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)
301159	0.79623	0.01719	-2.30919	0.07531	0.34246	0.03299	280476	0.84551	0.01250	-1.23743	0.03137	0.16020	0.01493
287189	0.97645	0.01337	-1.89016	0.02587	0.05488	0.01354	301597	1.49409	0.02036	0.29581	0.00937	0.24636	0.00461
301598	1.16825	0.01620	0.22104	0.01214	0.21569	0.00552	262105	1.06169	0.01699	-1.07910	0.02702	0.29875	0.01294
273791	1.36254	0.01971	-0.46762	0.01513	0.30546	0.00771	206951	1.29071	0.01923	-0.05827	0.01422	0.32427	0.00645
280477	0.95886	0.01279	-0.48038	0.01859	0.15661	0.00869	301169	0.83456	0.01471	1.23044	0.01134	0.10549	0.00404
221152	1.09470	0.01701	-1.53988	0.02790	0.19680	0.01561	261200	0.86955	0.01979	0.96148	0.01785	0.34644	0.00570
207214	0.53080	0.01287	-0.97495	0.07911	0.31226	0.02235	303745	0.94951	0.01246	-0.07139	0.01515	0.13280	0.00677
298025	1.18136	0.01610	-0.45459	0.01593	0.23224	0.00795	198675	1.71085	0.02433	0.45885	0.00814	0.27814	0.00404
217318	1.34459	0.01784	-0.67504	0.01431	0.20454	0.00802	221134	0.75547	0.01323	0.11939	0.02420	0.22355	0.00878
272773	0.92657	0.01230	-0.26977	0.01729	0.14008	0.00779	298111	0.69779	0.01378	-1.22519	0.05522	0.32973	0.01953
262140	0.86646	0.01321	-0.99826	0.02988	0.21122	0.01353	301591	1.98305	0.02538	0.44800	0.00625	0.20005	0.00343
298014	1.17097	0.01637	-0.86458	0.01887	0.21580	0.00999	221207	0.59971	0.00629	-1.19220	0.01522	0.00000	0.00000
287613	1.11581	0.01513	0.73714	0.00884	0.11743	0.00378	303755	0.54634	0.00562	-0.33003	0.01090	0.00000	0.00000
301173	1.35439	0.01933	0.37161	0.01037	0.25678	0.00479	248878	0.83250	0.00803	-1.21901	0.01205	0.00000	0.00000
301170	0.95112	0.01643	0.44095	0.01666	0.28205	0.00629	207514	0.94148	0.00826	-0.77884	0.00877	0.00000	0.00000
301161	1.49347	0.01782	0.56246	0.00675	0.11769	0.00324	280746	0.66103	0.00616	-0.25518	0.00905	0.00000	0.00000
272771	0.76077	0.01287	-1.32959	0.04321	0.22947	0.01843	221205	0.67259	0.00790	-2.03279	0.02168	0.00000	0.00000
299556	1.14982	0.01470	-0.53135	0.01522	0.16881	0.00784							
298040	1.00842	0.01339	-0.32818	0.01669	0.17010	0.00781							
301592	1.23857	0.01934	0.49437	0.01165	0.28748	0.00494							
298114	0.83804	0.01562	0.98618	0.01390	0.18225	0.00516							

**Table H-20. 2014 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)
272880	0.88453	0.00434	-1.22887	0.00561	1.37207	0.01468	0.37167	0.00929	-0.24773	0.0075	-1.49601	0.00604	0	0
272901	1.35219	0.00648	-0.22576	0.0036	0.80348	0.00629	0.11077	0.00489	-0.13212	0.00462	-0.78212	0.00438	0	0
290254	1.02777	0.00444	-0.50758	0.0043	1.56543	0.01116	0.24179	0.00645	-0.35173	0.0056	-1.4555	0.00548	0	0
303763	1.12325	0.00515	0.48711	0.00396	1.02738	0.00587	-0.08623	0.00495	-0.16426	0.00495	-0.77689	0.00542	0	0

**Table H-21. 2014 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)
288286	1.06961	0.01729	-1.42168	0.03191	0.20513	0.01928	301498	1.17815	0.01530	-0.26003	0.01438	0.15968	0.00781
301499	1.53368	0.01984	0.22824	0.00903	0.20745	0.00498	301220	1.06381	0.01324	0.28612	0.01121	0.09989	0.00539
272303	0.81509	0.01333	-0.51018	0.03086	0.21266	0.01352	229040	0.76306	0.01324	-1.98517	0.05494	0.13703	0.02933
251310	1.25467	0.01783	-0.81777	0.01893	0.19517	0.01148	251435	1.30646	0.01778	0.04210	0.01226	0.22553	0.00641
266113	0.63439	0.01528	-0.82796	0.07125	0.39430	0.02155	221697	1.18296	0.01738	0.48614	0.01191	0.23638	0.00543
272283	1.52770	0.01989	0.15561	0.00945	0.21342	0.00526	303704	0.87977	0.01553	0.83284	0.01526	0.20415	0.00595
296380	1.14797	0.02285	0.52992	0.01770	0.46512	0.00593	264400	1.23837	0.01889	0.49017	0.01207	0.28049	0.00541
217500	0.41455	0.01433	-0.43031	0.12416	0.30142	0.02848	303711	0.78091	0.01818	-0.13609	0.04216	0.47240	0.01199
309942	1.04943	0.01276	-0.75636	0.01713	0.07091	0.00958	296379	1.56695	0.01985	-0.52763	0.01128	0.14345	0.00737
217485	0.73275	0.01532	0.17206	0.03298	0.31988	0.01090	301221	1.11207	0.01590	-0.20271	0.01706	0.22475	0.00853
288284	1.40734	0.02127	0.77048	0.00931	0.26489	0.00419	280815	0.95338	0.01639	0.71730	0.01505	0.24112	0.00596
288380	1.36837	0.01780	-0.72405	0.01453	0.13802	0.00926	229029	0.83847	0.01037	-1.86630	0.01996	0.00000	0.00000
264285	0.84733	0.01191	0.35275	0.01518	0.09352	0.00658	294266	1.09527	0.00876	0.05504	0.00563	0.00000	0.00000
251397	0.99643	0.01385	0.20636	0.01458	0.15569	0.00678	301235	0.67611	0.00662	-0.56518	0.01075	0.00000	0.00000
217392	1.05854	0.01425	0.60186	0.01061	0.12441	0.00481	290248	0.80996	0.00708	-0.08073	0.00740	0.00000	0.00000
272172	0.85904	0.01287	-0.02432	0.02061	0.15994	0.00911	303717	0.82050	0.00778	-0.78710	0.01040	0.00000	0.00000
298263	1.20597	0.01667	0.05335	0.01342	0.21964	0.00675	296387	0.54429	0.00585	0.84928	0.00944	0.00000	0.00000
298161	0.97173	0.01359	-0.70879	0.02295	0.14890	0.01216							
221674	1.04388	0.01634	-0.09130	0.01946	0.28104	0.00874							
301496	1.44231	0.02109	1.37082	0.00673	0.10694	0.00239							
272302	0.64893	0.01382	0.40675	0.03210	0.22555	0.01076							

**Table H-22. 2014 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)
217663	1.43211	0.00697	0.39084	0.00344	1.64262	0.00719	-0.35279	0.00421	-0.50802	0.00425	-0.78182	0.00447	0	0
282255	0.87229	0.00402	-1.27907	0.00537	1.74641	0.02045	0.58113	0.01097	-0.38965	0.00751	-1.93789	0.00604	0	0
296392	1.17065	0.00489	-0.19676	0.00375	2.1374	0.0142	0.34289	0.00577	-0.92136	0.00479	-1.55893	0.00532	0	0
301248	1.06044	0.00512	-0.85095	0.00466	1.25976	0.01229	0.16511	0.0071	-0.11149	0.00643	-1.31338	0.0052	0	0

**Table H-23. 2014 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)
298181	1.02995	0.01495	-1.21227	0.02416	0.20265	0.01217	303732	0.84731	0.01861	0.63705	0.01926	0.35652	0.00598
296348	1.18732	0.01665	0.12766	0.01159	0.23649	0.00508	272139	1.11184	0.01461	-0.04193	0.01210	0.18074	0.00545
289832	0.95364	0.01371	-0.31837	0.01774	0.21027	0.00750	281419	0.99590	0.01315	0.43651	0.00995	0.10355	0.00410
219436	0.97725	0.01394	-0.31153	0.01717	0.21400	0.00733	281695	0.94177	0.01432	-0.36017	0.01980	0.25320	0.00805
272135	1.49168	0.01958	-0.61282	0.01166	0.22623	0.00636	296356	0.91463	0.01282	0.23829	0.01291	0.13275	0.00528
272441	0.49385	0.00844	-1.75154	0.06399	0.06785	0.02335	301837	1.37358	0.02098	0.56358	0.00923	0.27042	0.00390
259270	1.41428	0.02116	-0.07204	0.01205	0.34727	0.00536	302316	0.93033	0.01459	0.08030	0.01654	0.23937	0.00645
208664	0.97975	0.01280	-0.27915	0.01480	0.14540	0.00656	302319	0.38643	0.00517	1.07097	0.01582	0.00000	0.00000
228047	1.02730	0.01367	-0.17954	0.01400	0.17228	0.00620	302327	0.95766	0.01592	0.28985	0.01551	0.26956	0.00584
219513	0.89393	0.01284	-1.60583	0.03104	0.11327	0.01641	250334	1.26851	0.01834	-0.98175	0.01783	0.26201	0.00923
259281	1.33456	0.01584	0.25717	0.00784	0.12703	0.00366	208657	1.38548	0.01908	-0.82808	0.01442	0.24292	0.00774
219417	1.11640	0.01475	0.36469	0.00973	0.14551	0.00420	227953	0.79631	0.00825	-1.88781	0.01532	0.00000	0.00000
298218	1.03020	0.01597	0.43520	0.01228	0.22141	0.00491	282224	0.88545	0.00721	0.09696	0.00616	0.00000	0.00000
227987	0.94087	0.01420	-1.00994	0.02593	0.23199	0.01173	239637	0.78202	0.00709	-1.17754	0.01077	0.00000	0.00000
288721	1.22996	0.01778	0.21725	0.01124	0.26027	0.00485	303701	0.70769	0.00681	-1.40399	0.01300	0.00000	0.00000
272148	0.92736	0.01615	0.54826	0.01428	0.24359	0.00529	295755	0.87321	0.00880	-1.79449	0.01363	0.00000	0.00000
250245	0.59319	0.01381	-0.29781	0.04711	0.30432	0.01338	302322	0.39244	0.00484	-0.26426	0.01296	0.00000	0.00000
298180	0.67447	0.01235	-1.29106	0.05006	0.21410	0.01944							
260373	0.75687	0.01519	-0.39413	0.03434	0.36983	0.01066							
250535	1.10984	0.01435	-0.23437	0.01299	0.17673	0.00600							

**Table H-24. 2014 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)
288736	1.35239	0.00603	0.06429	0.00332	0.85871	0.00536	0.11309	0.00444	-0.10912	0.00434	-0.86268	0.00461	0	0
289859	1.24635	0.0063	-1.25001	0.00439	1.13813	0.01088	0.29816	0.0072	-0.33933	0.00569	-1.09697	0.00483	0	0
301865	1.25716	0.00588	-0.36772	0.00372	0.817	0.00633	0.57102	0.00578	-0.47777	0.00461	-0.91025	0.00462	0	0
302340	1.14968	0.00461	0.16289	0.0037	1.73772	0.00772	0.18589	0.00497	-0.55245	0.00493	-1.37116	0.00613	0	0

**Table H-25. 2014 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)
296756	1.05306	0.02080	-0.16210	0.02601	0.48648	0.00886	301702	0.82721	0.01268	0.74425	0.01313	0.09850	0.00534
272928	1.43103	0.01852	-0.09075	0.01075	0.20572	0.00606	282314	1.21174	0.01553	-0.51487	0.01481	0.15659	0.00851
284880	0.72905	0.01116	-0.86005	0.03381	0.13416	0.01519	301690	0.91618	0.01671	-0.59941	0.03270	0.37691	0.01293
219585	1.44347	0.01914	0.10494	0.01014	0.22699	0.00544	219616	1.56629	0.02345	0.68573	0.00847	0.28170	0.00391
259988	0.72826	0.01420	-1.95280	0.06640	0.24937	0.03049	297521	0.93883	0.01555	0.39539	0.01691	0.24699	0.00684
297514	1.20867	0.01530	-0.04239	0.01189	0.15749	0.00628	298049	0.74495	0.01154	-1.14099	0.03734	0.14483	0.01750
296751	1.29988	0.01472	0.40348	0.00758	0.08323	0.00372	304576	0.76772	0.01708	-0.76116	0.05220	0.46418	0.01618
253698	1.19468	0.01802	0.01542	0.01505	0.29619	0.00702	297518	1.21588	0.01357	-0.24742	0.01056	0.07437	0.00578
304572	0.74882	0.01298	-0.16434	0.02921	0.21768	0.01141	264725	1.48785	0.02137	-0.36949	0.01340	0.28692	0.00764
297523	1.49401	0.02994	1.40966	0.00881	0.28039	0.00296	275024	1.22406	0.01650	0.31073	0.01082	0.19287	0.00528
253753	1.00685	0.01651	0.03475	0.01935	0.30511	0.00807	219670	0.95617	0.01301	-0.85890	0.02285	0.13981	0.01223
304573	0.71883	0.01365	-0.70040	0.04386	0.29348	0.01641	296085	0.77438	0.00709	-0.54666	0.00904	0.00000	0.00000
275045	1.05240	0.01484	-0.85106	0.02216	0.18847	0.01223	253790	0.92005	0.00811	-0.61207	0.00817	0.00000	0.00000
301471	1.45787	0.01685	0.16195	0.00798	0.12185	0.00439	228379	0.66066	0.00805	-1.85591	0.02174	0.00000	0.00000
304577	1.02953	0.01448	-0.09564	0.01639	0.19420	0.00786	301700	0.43609	0.00539	0.98685	0.01239	0.00000	0.00000
283272	1.35779	0.01807	0.10612	0.01077	0.21883	0.00565	297663	1.22138	0.00971	-0.21496	0.00549	0.00000	0.00000
301698	1.11092	0.01541	-0.52666	0.01824	0.20328	0.00975	301703	0.68035	0.00631	0.49573	0.00737	0.00000	0.00000
287530	1.20315	0.01691	0.04249	0.01338	0.23780	0.00659							
298200	1.61958	0.02667	1.17995	0.00733	0.23025	0.00291							
253761	0.93214	0.01544	-0.17798	0.02333	0.29211	0.00973							
285227	0.89300	0.01278	-0.52591	0.02305	0.16383	0.01111							

**Table H-26. 2014 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)
285090	1.05248	0.00464	-0.22165	0.00433	1.95027	0.01216	0.53116	0.00629	-1.20566	0.00539	-1.27578	0.00545	0	0
301484	1.2695	0.00531	0.26137	0.00339	1.21616	0.00616	0.12115	0.00452	-0.32294	0.00444	-1.01438	0.005	0	0
303350	0.89159	0.00376	-0.27022	0.00477	1.98983	0.01286	-0.04352	0.00613	-0.46771	0.00583	-1.47859	0.00626	0	0
310218	1.72328	0.00736	0.41868	0.00263	1.31472	0.00525	0.03481	0.00365	-0.41256	0.0037	-0.93697	0.00426	0	0

**Table H-27. 2014 MCAS: IRT Parameters for Dichotomous Items –
Mathematics Grade 10**

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)
303264	0.81680	0.01393	-1.12299	0.03622	0.20847	0.01683	294515	1.38853	0.02837	0.61607	0.01160	0.42396	0.00399
279248	1.21148	0.01826	-0.51354	0.01613	0.28721	0.00793	303311	0.64096	0.01239	-1.38850	0.05806	0.15251	0.02485
287684	1.11592	0.01605	-0.42310	0.01556	0.22053	0.00765	302008	0.79709	0.01278	-0.86328	0.02987	0.15390	0.01371
294198	1.09936	0.02183	0.56578	0.01358	0.34428	0.00484	302045	0.58686	0.02467	1.65558	0.02893	0.29655	0.00697
303254	0.36339	0.00511	-0.64751	0.01535	0.00000	0.00000	303434	0.93609	0.01458	-0.74460	0.02384	0.21578	0.01126
303377	0.79132	0.01309	-0.32946	0.02359	0.16409	0.00988	294490	1.17668	0.01913	-0.40471	0.01738	0.34306	0.00773
260874	1.28032	0.01997	0.00452	0.01237	0.31151	0.00553	301393	0.74900	0.00811	-1.74557	0.01511	0.00000	0.00000
301993	1.01159	0.01463	-0.83572	0.02092	0.18450	0.01082	303386	1.14368	0.01727	0.34512	0.01062	0.19993	0.00464
303427	0.80807	0.01489	-0.03532	0.02265	0.23671	0.00865	301002	0.97692	0.01548	0.10996	0.01463	0.20580	0.00623
294176	1.47309	0.02661	0.43328	0.01066	0.39480	0.00412	303231	0.92159	0.01463	-0.15143	0.01796	0.20470	0.00773
301431	1.36171	0.02222	0.32174	0.01057	0.31981	0.00447	302002	0.90034	0.01806	0.47354	0.01674	0.28430	0.00604
279312	1.08819	0.01895	-0.45360	0.02094	0.37537	0.00859	303449	0.84024	0.01501	-1.53728	0.04500	0.22576	0.02265
303283	0.90593	0.01204	-0.88472	0.02044	0.08274	0.01058	287743	1.31742	0.01007	-0.22679	0.00466	0.00000	0.00000
303286	1.05403	0.01770	0.16391	0.01453	0.27860	0.00593	288133	1.34997	0.01059	-0.53558	0.00503	0.00000	0.00000
301004	0.91680	0.01462	-1.67667	0.03685	0.14250	0.02173	304335	0.90039	0.00754	0.28380	0.00600	0.00000	0.00000
302030	0.63364	0.01262	-1.09960	0.05345	0.17188	0.02126	258803	0.90778	0.00782	-0.79623	0.00751	0.00000	0.00000
288112	1.09742	0.01519	0.03455	0.01159	0.16118	0.00543							
303233	1.29094	0.02068	0.58607	0.00920	0.22883	0.00383							
300982	0.45595	0.02291	-0.09070	0.12406	0.55742	0.01890							
303446	0.76635	0.01544	-1.79549	0.06393	0.25610	0.03049							

**Table H-28. 2014 MCAS: IRT Parameters for Polytomous Items –
Mathematics 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)
284087	1.61911	0.00693	-0.22699	0.00278	0.96284	0.00515	0.43949	0.00424	-0.44569	0.00379	-0.95663	0.00411	0	0
287900	1.28648	0.00748	-0.36719	0.00411	0.29559	0.00491	0.19327	0.00478	-0.18604	0.00451	-0.30283	0.00449	0	0
288095	1.09485	0.00432	-0.59543	0.00399	1.61355	0.00997	0.80633	0.00674	-0.33917	0.00509	-2.08072	0.00676	0	0
301254	1.21639	0.00567	-1.4794	0.00402	1.38715	0.01503	0.63113	0.00915	-0.44642	0.0056	-1.57186	0.00467	0	0
301488	1.48039	0.00717	-0.58999	0.00338	0.86891	0.00607	0.27497	0.00472	-0.49823	0.00406	-0.64565	0.00406	0	0
303397	1.33591	0.0055	-0.19899	0.00321	1.09714	0.00592	0.35216	0.0046	-0.28123	0.00428	-1.16807	0.00495	0	0

**Table H-29. 2014 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)
281842	0.96024	0.01390	-1.45773	0.02699	0.17497	0.01406	264856	0.49679	0.01055	-1.28038	0.07101	0.14368	0.02333
294501	0.78948	0.01243	-0.89310	0.02933	0.20203	0.01221	288182	0.88718	0.01247	-0.17625	0.01608	0.14666	0.00681
281837	1.11730	0.01754	-1.90978	0.02868	0.19062	0.01725	291419	0.55503	0.00659	-2.12800	0.02219	0.00000	0.00000
281838	0.60166	0.01215	-0.63598	0.04441	0.22304	0.01457	291158	1.19337	0.02764	1.50568	0.01150	0.19975	0.00276
291143	0.49107	0.00594	-1.94153	0.02213	0.00000	0.00000	288143	0.75756	0.01621	-1.69416	0.06232	0.42230	0.02161
288167	0.38811	0.00573	-2.55968	0.03570	0.00000	0.00000	289669	0.93231	0.01986	0.66249	0.01628	0.34689	0.00526
310216	0.24111	0.00664	-4.13941	0.11167	0.25000	0.00000	291052	0.57415	0.00930	-0.83924	0.03639	0.06965	0.01337
299490	0.83596	0.01450	-0.74586	0.03005	0.31299	0.01134	273772	0.75095	0.01361	-1.50252	0.04731	0.28129	0.01914
301140	0.90793	0.01285	-0.48298	0.01873	0.17619	0.00820	264834	0.85921	0.01597	-0.25279	0.02532	0.35834	0.00861
264891	0.71003	0.01279	0.37650	0.01884	0.14890	0.00683	264890	0.47758	0.00690	-2.92262	0.03681	0.00000	0.00000
281798	0.58829	0.01021	-1.19770	0.04672	0.11651	0.01769	281816	0.48437	0.01339	-1.24759	0.10030	0.32424	0.02610
245539	0.67760	0.01107	-0.40892	0.02715	0.13284	0.01026	299440	0.81577	0.01311	-0.25857	0.02168	0.21233	0.00844
281794	0.57412	0.00743	-2.59966	0.02782	0.00000	0.00000	291338	0.69882	0.01226	-0.77226	0.03538	0.21992	0.01314
299396	0.69270	0.01441	-0.20726	0.03354	0.31411	0.01046	245571	0.70350	0.01451	0.41324	0.02232	0.22946	0.00746
294489	0.59606	0.01093	-0.79741	0.04221	0.15206	0.01500	291099	0.88993	0.01305	-0.57001	0.02088	0.19774	0.00899
294466	0.78461	0.01591	0.55120	0.01848	0.25281	0.00629	245538	0.79253	0.01984	-0.29358	0.03962	0.54979	0.00927
310217	0.62164	0.01178	-2.50057	0.07921	0.15142	0.03611	291186	0.89609	0.01395	-0.96772	0.02691	0.24961	0.01175
299444	1.24965	0.01589	-0.65939	0.01309	0.18120	0.00692							
264803	0.59437	0.01329	-0.49000	0.04764	0.28581	0.01420							
289390	0.67117	0.01537	0.28855	0.02880	0.29883	0.00870							
288210	0.86930	0.01867	-0.73962	0.03784	0.50900	0.01088							

**Table H-30. 2014 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)
288156	0.79403	0.00306	0.21853	0.00515	1.8006	0.00864	0.53468	0.00655	-0.4905	0.00661	-1.84478	0.00955	0	0
288173	0.90083	0.00393	-0.26871	0.00475	1.23986	0.00792	0.69596	0.00672	-0.75077	0.00589	-1.18505	0.00625	0	0
288179	0.68307	0.00259	-0.07077	0.00605	2.90613	0.01517	0.31541	0.00745	-0.80348	0.00748	-2.41805	0.01128	0	0
294542	0.99477	0.00386	0.63102	0.0043	2.11436	0.00756	0.39207	0.00541	-0.59583	0.00625	-1.9106	0.01169	0	0

**Table H-31. 2014 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)
294054	1.10912	0.02157	-0.50271	0.02666	0.48481	0.00977	310324	0.66924	0.01728	0.52182	0.03046	0.30472	0.00958
289695	0.89410	0.01995	0.56723	0.01990	0.36731	0.00680	265305	0.94719	0.01519	-0.21883	0.02045	0.24441	0.00899
294063	0.85935	0.01442	-0.41416	0.02602	0.23794	0.01106	288319	0.83826	0.01736	0.92423	0.01445	0.19643	0.00563
273925	0.40629	0.01514	-0.20965	0.10851	0.24458	0.02570	273679	0.73903	0.01667	0.12453	0.03129	0.33570	0.01021
291896	1.09277	0.01680	0.50830	0.01103	0.19248	0.00506	288349	0.81660	0.01761	0.15179	0.02703	0.36327	0.00906
299483	0.98663	0.01400	-0.32227	0.01759	0.16855	0.00852	310323	0.55600	0.00600	-0.38856	0.01050	0.00000	0.00000
265296	0.95010	0.01937	-1.38603	0.04800	0.42694	0.01989	294053	1.12768	0.02054	0.65491	0.01230	0.29936	0.00507
291842	1.45733	0.02951	1.27129	0.00863	0.24457	0.00303	291979	0.35735	0.00550	-1.48095	0.02744	0.00000	0.00000
310325	1.37803	0.02349	0.86213	0.00866	0.25615	0.00378	282055	0.84713	0.01678	0.61808	0.01698	0.23694	0.00660
274027	0.82910	0.01492	-0.60477	0.03243	0.28134	0.01315	289599	0.89560	0.01569	0.65173	0.01349	0.17274	0.00567
292003	0.89138	0.01410	-0.88072	0.02931	0.20660	0.01395	291914	0.98419	0.01504	-0.75281	0.02431	0.22296	0.01191
265239	0.40792	0.00558	-1.13619	0.02042	0.00000	0.00000	288351	0.77967	0.01583	0.81177	0.01594	0.17256	0.00626
227971	1.14390	0.01638	-0.29843	0.01574	0.23490	0.00788	281958	1.27284	0.02219	0.85430	0.00942	0.25353	0.00403
229351	0.95947	0.01885	-0.91791	0.03731	0.42676	0.01442	291963	0.83123	0.01379	-0.05863	0.02137	0.18969	0.00899
273928	0.87716	0.01279	-0.13859	0.01786	0.12979	0.00815	274002	0.34779	0.00536	-1.21238	0.02450	0.00000	0.00000
289767	0.94844	0.01560	0.04362	0.01814	0.24548	0.00777	289757	1.13017	0.01905	0.66251	0.01102	0.24000	0.00481
265307	1.00333	0.01515	-0.58651	0.02177	0.22641	0.01053	265288	0.83694	0.01757	0.81295	0.01597	0.22995	0.00612
289593	1.03334	0.01822	-0.36147	0.02341	0.37369	0.00953							
282056	0.48787	0.01535	-0.06255	0.07164	0.27665	0.01881							
289670	0.87815	0.01702	-0.28768	0.02895	0.36650	0.01058							
291721	1.23703	0.01992	-0.78172	0.02144	0.33819	0.01077							

**Table H-32. 2014 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)
252715	1.18717	0.0045	0.27689	0.00352	1.64271	0.00733	0.50666	0.00483	-0.51482	0.00467	-1.63455	0.00719	0	0
288309	0.96134	0.00373	0.71835	0.00429	1.58182	0.00661	0.37403	0.0053	-0.50919	0.00597	-1.44666	0.00883	0	0
293815	1.08232	0.00426	0.14407	0.00411	2.19696	0.01068	0.68454	0.0056	-1.21943	0.00581	-1.66207	0.00704	0	0
294112	0.89198	0.00353	-0.4692	0.00462	1.88712	0.01273	0.5339	0.00712	-0.73467	0.00564	-1.68635	0.00631	0	0

**Table H-33. 2014 MCAS: IRT Parameters for Dichotomous Items –
High School Biology**

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)
285875	0.51275	0.00000	-1.93801	0.00000	0.19643	0.00000	234775	1.27820	0.00000	-0.41030	0.00000	0.48120	0.00000
295298	0.58837	0.00000	-0.48119	0.00000	0.29737	0.00000	290957	0.71120	0.00000	0.26791	0.00000	0.19399	0.00000
275595	0.93448	0.00000	0.25167	0.00000	0.18761	0.00000	290019	0.93097	0.00000	0.16283	0.00000	0.19026	0.00000
304255	1.11657	0.00000	0.79447	0.00000	0.38348	0.00000	301324	1.25677	0.00000	0.37035	0.00000	0.46224	0.00000
235197	1.02157	0.00000	0.42406	0.00000	0.27598	0.00000	296786	1.05444	0.00000	-0.83509	0.00000	0.15002	0.00000
299772	0.91674	0.00000	-1.13913	0.00000	0.18431	0.00000	301363	1.31616	0.00000	-0.39099	0.00000	0.17645	0.00000
299746	0.98225	0.00000	-0.22913	0.00000	0.11783	0.00000	294814	1.13255	0.00000	-0.31589	0.00000	0.13859	0.00000
274698	1.21467	0.00000	-0.09930	0.00000	0.27245	0.00000	290981	1.28771	0.00000	0.44398	0.00000	0.30191	0.00000
279505	1.47382	0.00000	-0.18923	0.00000	0.28874	0.00000	285877	1.06797	0.00000	-1.13599	0.00000	0.15314	0.00000
274706	0.66170	0.00000	-0.06419	0.00000	0.17229	0.00000	290954	0.75383	0.00000	-0.07572	0.00000	0.28208	0.00000
279506	0.42383	0.00000	0.93817	0.00000	0.22951	0.00000	299823	0.67409	0.00000	-1.60407	0.00000	0.15046	0.00000
273485	1.11864	0.00000	0.55259	0.00000	0.14210	0.00000	296742	0.55178	0.00000	-0.88146	0.00000	0.17016	0.00000
264524	1.52705	0.00000	0.01004	0.00000	0.24754	0.00000	301378	1.12012	0.00000	-0.53582	0.00000	0.14142	0.00000
295269	0.62642	0.00000	-0.78792	0.00000	0.14956	0.00000	299735	0.98870	0.00000	-0.90043	0.00000	0.12998	0.00000
289296	1.04053	0.00000	-0.44879	0.00000	0.24008	0.00000	283132	0.96276	0.00000	-0.01791	0.00000	0.32871	0.00000
289222	0.57030	0.00000	-0.09675	0.00000	0.15599	0.00000	212488	0.95900	0.00000	0.32883	0.00000	0.18764	0.00000
299737	1.22169	0.00000	0.77304	0.00000	0.27341	0.00000	301321	0.60124	0.00000	-0.57071	0.00000	0.24688	0.00000
296667	0.92313	0.00000	-0.85628	0.00000	0.21278	0.00000	281147	0.81693	0.00000	-1.02622	0.00000	0.11678	0.00000
301341	0.67967	0.00000	-0.53703	0.00000	0.27588	0.00000							
304251	1.40657	0.00000	1.35507	0.00000	0.41436	0.00000							
283211	0.75281	0.00000	0.98114	0.00000	0.38735	0.00000							
299734	1.28244	0.00000	-0.59884	0.00000	0.32446	0.00000							

**Table H-34. 2014 MCAS: IRT Parameters for Polytomous Items –
High School Biology**

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)
279504	1.14727	0	0.13339	0	1.39086	0	0.52956	0	-0.56036	0	-1.36006	0	0	0
281157	0.96075	0	0.04617	0	2.00922	0	0.72819	0	-0.649	0	-2.08841	0	0	0
281196	1.7301	0	0.99635	0	1.0078	0	0.37977	0	-0.21117	0	-1.1764	0	0	0
296812	1.14876	0	0.96747	0	1.21896	0	0.37522	0	-0.39752	0	-1.19666	0	0	0
299793	1.17287	0	-0.1871	0	0.98742	0	0.34125	0	-0.23113	0	-1.09754	0	0	0

**Table H-35. 2014 MCAS: IRT Parameters for Dichotomous Items –
High School Chemistry**

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)
299695	1.05173	0.00000	0.39622	0.00000	0.26279	0.00000	281281	1.28463	0.00000	0.34126	0.00000	0.23600	0.00000
261459	1.63279	0.00000	0.81956	0.00000	0.40279	0.00000	261057	1.53547	0.00000	-0.31514	0.00000	0.28316	0.00000
271908	0.70522	0.00000	0.54454	0.00000	0.18645	0.00000	288262	1.16445	0.00000	0.64628	0.00000	0.24602	0.00000
294728	1.57995	0.00000	0.61843	0.00000	0.23313	0.00000	229644	1.13744	0.00000	0.46898	0.00000	0.29963	0.00000
230419	0.92060	0.00000	-0.02978	0.00000	0.22314	0.00000	275829	1.66992	0.00000	1.01372	0.00000	0.32342	0.00000
298512	0.98021	0.00000	-0.02589	0.00000	0.20611	0.00000	281268	0.93637	0.00000	0.75954	0.00000	0.25937	0.00000
258916	0.93123	0.00000	-0.12891	0.00000	0.26904	0.00000	300101	1.44996	0.00000	0.22658	0.00000	0.28290	0.00000
258902	0.92526	0.00000	0.65188	0.00000	0.29203	0.00000	208285	1.40153	0.00000	-0.08463	0.00000	0.30651	0.00000
230665	1.33865	0.00000	0.05040	0.00000	0.21946	0.00000	261451	1.06481	0.00000	-0.10857	0.00000	0.19369	0.00000
288245	1.38330	0.00000	0.85057	0.00000	0.25164	0.00000	260908	1.94286	0.00000	0.28602	0.00000	0.30319	0.00000
229662	1.89999	0.00000	-0.46671	0.00000	0.29745	0.00000	294673	1.03392	0.00000	-0.05044	0.00000	0.25047	0.00000
294746	1.25296	0.00000	-0.76504	0.00000	0.22922	0.00000	288261	1.31195	0.00000	0.32007	0.00000	0.27376	0.00000
226974	1.01710	0.00000	0.24303	0.00000	0.28970	0.00000	275898	1.19030	0.00000	-0.09396	0.00000	0.17726	0.00000
281924	1.07638	0.00000	0.92158	0.00000	0.37258	0.00000	275906	0.89840	0.00000	-0.77492	0.00000	0.22708	0.00000
246683	0.78994	0.00000	-0.31094	0.00000	0.22404	0.00000	281172	0.76096	0.00000	1.24860	0.00000	0.32386	0.00000
287590	1.12103	0.00000	0.90997	0.00000	0.24361	0.00000	244827	1.34476	0.00000	-0.01798	0.00000	0.20149	0.00000
258914	0.91825	0.00000	0.12319	0.00000	0.18072	0.00000	273191	0.84459	0.00000	-0.97461	0.00000	0.27690	0.00000
275850	1.81931	0.00000	-0.19285	0.00000	0.17290	0.00000	294770	1.03134	0.00000	0.64337	0.00000	0.18399	0.00000
274078	1.07070	0.00000	0.62539	0.00000	0.33608	0.00000							
272999	1.52185	0.00000	0.17663	0.00000	0.28122	0.00000							
273026	0.77609	0.00000	0.93523	0.00000	0.19599	0.00000							
273017	1.48359	0.00000	0.10594	0.00000	0.17543	0.00000							

**Table H-36. 2014 MCAS: IRT Parameters for Polytomous Items –
High School Chemistry**

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)
244944	1.03014	0	1.05998	0	1.04609	0	0.42233	0	-0.43829	0	-1.03013	0	0	0
260796	1.43032	0	0.67196	0	1.29537	0	0.60129	0	-0.53347	0	-1.36319	0	0	0
294709	1.87259	0	0.55217	0	0.81672	0	0.24701	0	-0.23991	0	-0.82381	0	0	0
298326	1.20408	0	0.88878	0	1.34355	0	0.22479	0	-0.49439	0	-1.07395	0	0	0
299725	1.03889	0	0.38096	0	1.05412	0	0.69184	0	-0.31762	0	-1.42833	0	0	0

**Table H-37. 2014 MCAS: IRT Parameters for Dichotomous Items –
High School Introductory Physics**

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)
293886	0.73641	0.00000	-0.96678	0.00000	0.20991	0.00000	287312	1.06901	0.00000	0.24371	0.00000	0.23361	0.00000
295856	1.25497	0.00000	1.42482	0.00000	0.49264	0.00000	208526	1.27171	0.00000	-0.04692	0.00000	0.18207	0.00000
295864	0.73268	0.00000	-0.84628	0.00000	0.19257	0.00000	293963	1.16728	0.00000	0.30756	0.00000	0.30710	0.00000
273102	1.13863	0.00000	0.29548	0.00000	0.17539	0.00000	272688	1.01301	0.00000	0.47029	0.00000	0.32438	0.00000
293940	0.34968	0.00000	-1.59206	0.00000	0.00000	0.00000	287032	1.05637	0.00000	-0.23018	0.00000	0.32807	0.00000
258356	1.65150	0.00000	0.79357	0.00000	0.41702	0.00000	299315	1.03837	0.00000	0.61460	0.00000	0.50449	0.00000
299335	0.89419	0.00000	-0.23860	0.00000	0.38463	0.00000	285645	0.77122	0.00000	0.07898	0.00000	0.13556	0.00000
295908	0.56692	0.00000	0.29589	0.00000	0.14200	0.00000	293968	1.04803	0.00000	0.10804	0.00000	0.25519	0.00000
295907	0.69383	0.00000	-1.39253	0.00000	0.19428	0.00000	297594	0.89937	0.00000	-0.79279	0.00000	0.15128	0.00000
301718	1.16891	0.00000	-0.06508	0.00000	0.30796	0.00000	287382	0.79841	0.00000	-0.18171	0.00000	0.31453	0.00000
287381	1.42283	0.00000	-0.09143	0.00000	0.26681	0.00000	293884	1.05584	0.00000	0.09554	0.00000	0.35906	0.00000
287353	0.73589	0.00000	0.42417	0.00000	0.30959	0.00000	287364	0.72369	0.00000	0.36851	0.00000	0.11026	0.00000
302737	1.44146	0.00000	0.98225	0.00000	0.32114	0.00000	261520	1.25163	0.00000	0.32548	0.00000	0.19274	0.00000
272732	1.07823	0.00000	1.25388	0.00000	0.36662	0.00000	287039	0.65597	0.00000	0.37306	0.00000	0.20983	0.00000
280810	1.24922	0.00000	0.25826	0.00000	0.10839	0.00000	273103	0.94952	0.00000	0.94460	0.00000	0.29955	0.00000
287203	1.59331	0.00000	1.40307	0.00000	0.39004	0.00000	295867	0.50573	0.00000	0.21541	0.00000	0.24485	0.00000
280448	1.49852	0.00000	0.41897	0.00000	0.17093	0.00000	299320	1.24074	0.00000	0.52098	0.00000	0.19856	0.00000
272820	1.12087	0.00000	0.81912	0.00000	0.38929	0.00000	295844	0.76073	0.00000	-0.14396	0.00000	0.21840	0.00000
299368	0.88688	0.00000	-0.09178	0.00000	0.25414	0.00000							
301762	1.32369	0.00000	-0.56952	0.00000	0.32645	0.00000							
287038	0.67749	0.00000	-0.10953	0.00000	0.21317	0.00000							
299250	0.60832	0.00000	-0.78862	0.00000	0.19775	0.00000							

**Table H-38. 2014 MCAS: IRT Parameters for Polytomous Items –
High School Introductory Physics**

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)
216428	1.3231	0	0.49131	0	1.22469	0	0.65257	0	-0.25115	0	-1.62612	0	0	0
287332	1.25624	0	0.73472	0	1.7046	0	0.8068	0	-0.74687	0	-1.76453	0	0	0
293879	1.22231	0	0.9745	0	1.817	0	0.81403	0	-0.8432	0	-1.78783	0	0	0
294258	1.0842	0	0.43333	0	1.4358	0	0.58722	0	-0.52751	0	-1.49551	0	0	0
304275	1.43645	0	0.40002	0	1.11987	0	0.55376	0	-0.29127	0	-1.38235	0	0	0

**Table H-39. 2014 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)
287796	1.00000	0.00000	-0.40932	0.00000	0.00000	0.00000	265131	1.00000	0.00000	-0.17493	0.00000	0.00000	0.00000
273078	1.00000	0.00000	-0.05613	0.00000	0.00000	0.00000	289877	1.00000	0.00000	-0.17264	0.00000	0.00000	0.00000
299356	1.00000	0.00000	0.23370	0.00000	0.00000	0.00000	299313	1.00000	0.00000	0.27463	0.00000	0.00000	0.00000
296422	1.00000	0.00000	-0.33469	0.00000	0.00000	0.00000	300274	1.00000	0.00000	-0.49386	0.00000	0.00000	0.00000
271579	1.00000	0.00000	-0.26405	0.00000	0.00000	0.00000	289953	1.00000	0.00000	-0.37286	0.00000	0.00000	0.00000
206779	1.00000	0.00000	-0.01517	0.00000	0.00000	0.00000	300308	1.00000	0.00000	-0.37497	0.00000	0.00000	0.00000
287847	1.00000	0.00000	0.17766	0.00000	0.00000	0.00000	208967	1.00000	0.00000	-0.43553	0.00000	0.00000	0.00000
274332	1.00000	0.00000	-0.02545	0.00000	0.00000	0.00000	246665	1.00000	0.00000	-0.50425	0.00000	0.00000	0.00000
265038	1.00000	0.00000	-0.34902	0.00000	0.00000	0.00000	294397	1.00000	0.00000	-0.35671	0.00000	0.00000	0.00000
274560	1.00000	0.00000	0.63874	0.00000	0.00000	0.00000	267200	1.00000	0.00000	-0.48916	0.00000	0.00000	0.00000
300302	1.00000	0.00000	-0.10463	0.00000	0.00000	0.00000	283429	1.00000	0.00000	-0.11660	0.00000	0.00000	0.00000
299282	1.00000	0.00000	-0.71768	0.00000	0.00000	0.00000	283350	1.00000	0.00000	-0.89178	0.00000	0.00000	0.00000
287789	1.00000	0.00000	-1.28155	0.00000	0.00000	0.00000	274578	1.00000	0.00000	0.02940	0.00000	0.00000	0.00000
293184	1.00000	0.00000	-0.05250	0.00000	0.00000	0.00000	268661	1.00000	0.00000	0.01552	0.00000	0.00000	0.00000
287857	1.00000	0.00000	0.13293	0.00000	0.00000	0.00000	300268	1.00000	0.00000	0.05559	0.00000	0.00000	0.00000
299290	1.00000	0.00000	-0.59525	0.00000	0.00000	0.00000	265112	1.00000	0.00000	-0.64977	0.00000	0.00000	0.00000
230825	1.00000	0.00000	-0.47451	0.00000	0.00000	0.00000	265086	1.00000	0.00000	-0.16666	0.00000	0.00000	0.00000
296462	1.00000	0.00000	-0.43171	0.00000	0.00000	0.00000	300309	1.00000	0.00000	-0.35866	0.00000	0.00000	0.00000
271561	1.00000	0.00000	-0.18467	0.00000	0.00000	0.00000							
287825	1.00000	0.00000	0.54974	0.00000	0.00000	0.00000							
281373	1.00000	0.00000	-0.95942	0.00000	0.00000	0.00000							
296423	1.00000	0.00000	-0.35144	0.00000	0.00000	0.00000							

**Table H-40. 2014 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)
288406	1	0	0.52194	0	0.75422	0	0.21172	0	-0.06311	0	-0.90284	0	0	0
290850	1	0	1.52147	0	1.81605	0	0.39503	0	-0.75581	0	-1.45527	0	0	0
294379	1	0	1.06465	0	1.92785	0	0.16684	0	-0.67299	0	-1.4217	0	0	0
294425	1	0	0.13162	0	1.42983	0	0.63943	0	-0.38356	0	-1.6857	0	0	0
296473	1	0	-0.14619	0	1.72085	0	0.68549	0	-0.25848	0	-2.14786	0	0	0