

# **APPENDIX I**

## **ITEM RESPONSE THEORY PARAMETERS**

**Table I-1. 2015 MCAS: IRT Parameters for Dichotomous Items –  
ELA Grade 3**

<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>
285013	1.08946	0.03604	-1.97969	0.05831	0.45790	0.02134	297108	1.33431	0.03699	-1.43284	0.03389	0.38251	0.01569
285012	0.61624	0.01273	-3.12770	0.04786	0.00000	0.00000	284956	0.73564	0.01956	-1.11847	0.04747	0.20827	0.01755
285015	0.81749	0.02542	-2.14820	0.07471	0.32431	0.02713	284958	1.29191	0.03452	-1.94732	0.03589	0.24724	0.01776
285021	0.93950	0.02538	-1.64468	0.04808	0.30281	0.01948	284959	0.86717	0.02717	-2.16243	0.07157	0.34515	0.02628
285017	0.58174	0.01028	-1.44910	0.02381	0.00000	0.00000	284961	0.59166	0.02092	-0.66035	0.06592	0.27124	0.01936
285024	1.00179	0.02340	-0.96644	0.03021	0.21977	0.01344	284963	1.03606	0.02906	-1.45241	0.04427	0.37543	0.01767
285026	0.70375	0.02441	-1.02116	0.06779	0.40102	0.01950	284966	1.28121	0.03203	-1.79021	0.03238	0.22437	0.01635
285027	0.66216	0.01843	-1.00455	0.05137	0.18326	0.01795	284968	0.52641	0.02128	-0.16824	0.06513	0.22975	0.01833
285030	0.93101	0.02855	-2.08958	0.06375	0.35344	0.02419	284971	0.88505	0.02377	-1.57784	0.04929	0.28656	0.01951
285029	1.06834	0.02762	-1.41069	0.03814	0.31026	0.01664	284974	0.79853	0.01839	-1.09742	0.03576	0.13476	0.01442
308830	1.29039	0.03121	-1.46462	0.02925	0.25430	0.01489	284972	1.56729	0.03492	-1.17459	0.01992	0.20679	0.01150
308831	0.41582	0.00889	-1.87557	0.03762	0.00000	0.00000	308364	0.58383	0.01823	-1.07309	0.06690	0.19524	0.02126
308836	1.17955	0.02919	-1.13707	0.03046	0.30137	0.01415	308368	0.51388	0.01741	-0.77729	0.07024	0.15387	0.02093
308846	0.48197	0.02015	-0.57522	0.08909	0.23811	0.02327	308373	1.13204	0.02699	-0.49743	0.02322	0.24568	0.01060
308848	0.99955	0.02417	-1.36900	0.03625	0.23981	0.01605	308379	1.26845	0.02900	-1.10124	0.02518	0.24026	0.01277
308843	0.73166	0.02148	-1.38454	0.06055	0.29159	0.02088	308377	1.25396	0.02896	-0.66719	0.02210	0.25136	0.01079
297100	0.84408	0.02016	-1.30423	0.03947	0.18083	0.01626							
297102	0.85916	0.02534	-0.77904	0.04329	0.34987	0.01521							
297104	0.57955	0.01777	-1.20667	0.06901	0.18082	0.02216							
297107	1.34434	0.02971	-1.01290	0.02212	0.21937	0.01168							

**Table I-2. 2015 MCAS: IRT Parameters for Polytomous Items –  
ELA Grade 3**

<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>
286598	0.55209	0.00458	-0.75456	0.01367	1.45299	0.02019	-1.45299	0.01562	0	0				
286599	0.34097	0.00347	-1.65473	0.02306	1.39714	0.03026	-1.39714	0.0232	0	0				
297110	0.82073	0.00641	0.00574	0.01035	1.49295	0.01369	-1.49295	0.0143	0	0				
308861	0.61899	0.00681	-2.24457	0.01641	1.2863	0.02966	-1.2863	0.01453	0	0				
285031	0.59797	0.00386	0.65947	0.0122	3.92618	0.02711	0.99082	0.01399	-1.26324	0.01908	-3.65376	0.05131	0	0

**Table I-3. 2015 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)
303556	0.53287	0.01086	-2.35810	0.04115	0.00000	0.00000	307649	0.91642	0.02115	-1.31820	0.03904	0.13717	0.01827
303557	0.83326	0.02327	-0.95872	0.04923	0.27708	0.01893	297762	0.63308	0.01964	-0.76945	0.06443	0.21386	0.02164
303562	0.85982	0.02946	-1.62083	0.07967	0.43806	0.02751	297767	0.84262	0.02344	-0.58902	0.04137	0.27275	0.01549
303568	0.63955	0.01692	-0.67373	0.04829	0.10952	0.01753	297763	0.73741	0.02024	-1.06793	0.05523	0.20396	0.02131
303567	0.70235	0.02212	-0.85526	0.06343	0.29178	0.02121	297773	0.78896	0.01969	-0.59213	0.03714	0.15744	0.01473
303561	1.18118	0.02595	-0.44950	0.02108	0.18290	0.01002	297776	0.51858	0.02533	-0.34477	0.11017	0.41581	0.02386
291300	0.67319	0.01637	-1.37705	0.05459	0.09169	0.02187	297777	0.70312	0.01922	-1.78976	0.07376	0.15867	0.03114
291304	1.37555	0.03386	-1.51655	0.02909	0.18744	0.01664	297766	0.53780	0.01641	-1.16830	0.08265	0.12849	0.02765
291306	0.97069	0.02448	-1.27531	0.04191	0.22666	0.01918	297783	0.57982	0.02376	0.49125	0.05188	0.26305	0.01462
291307	0.71704	0.01784	-0.70258	0.04141	0.11907	0.01602	297780	0.64030	0.01903	-2.50463	0.11015	0.16322	0.04768
291310	1.12904	0.02699	-0.43952	0.02465	0.24098	0.01105	297781	0.80557	0.02141	-1.59647	0.05953	0.19166	0.02610
291308	1.22649	0.02694	-1.15217	0.02594	0.15759	0.01367	297792	0.65145	0.01729	-0.17177	0.03723	0.09928	0.01329
291313	0.63859	0.01653	-0.78527	0.04918	0.10071	0.01805	297791	0.62507	0.02092	-1.02915	0.08075	0.27416	0.02585
291316	0.62264	0.01597	-1.35155	0.06199	0.09651	0.02361	297793	0.50200	0.01039	-2.32567	0.04234	0.00000	0.00000
291321	0.63387	0.01596	-1.48415	0.06239	0.09384	0.02435	297794	0.75835	0.01951	-0.85397	0.04496	0.16701	0.01775
291324	0.53016	0.01544	-0.91556	0.06974	0.09729	0.02302	297799	0.72828	0.02011	-0.02858	0.03417	0.16151	0.01240
307633	0.61580	0.01213	-2.38324	0.03756	0.00000	0.00000							
307636	0.58403	0.01065	-1.83374	0.02981	0.00000	0.00000							
307632	0.82267	0.02132	-1.41213	0.05297	0.19063	0.02299							
307646	1.10494	0.02642	-1.39316	0.03518	0.18938	0.01790							

**Table I-4. 2015 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)
291326	0.76764	0.00495	0.27582	0.0095	2.85083	0.02132	0.80475	0.01204	-1.03793	0.01328	-2.61764	0.02407	0	0
297788	0.72039	0.00464	0.45335	0.00994	2.54535	0.01822	0.81656	0.01236	-0.87468	0.01388	-2.48723	0.02463	0	0
303570	0.7683	0.00496	0.07287	0.00968	3	0.02458	1.08096	0.01307	-1.12152	0.01295	-2.95944	0.02579	0	0
307653	0.77932	0.0052	0.75678	0.00967	3.29913	0.02105	0.71237	0.01145	-1.1975	0.01602	-2.814	0.0344	0	0
314851C	0.84728	0.00597	-1.82265	0.00868	2.93259	0.06858	2.12117	0.04222	0.11272	0.01633	-0.58301	0.013	-1.9303	0.01063
314851T	0.80822	0.00479	0.36517	0.00869	4.82999	0.0557	4.19847	0.03909	2.45654	0.01756	1.89435	0.01449	0.47166	0.01108

<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>
291326												
297788												
303570												
307653												
314851C	-2.65317	0.01129	0	0								
314851T	-0.0516	0.01109	-1.52782	0.01536	-2.42168	0.02277	-4.56387	0.08198	-5.28605	0.13307	0	0

**Table I-5. 2015 MCAS: IRT Parameters for Dichotomous Items –  
ELA Grade 5**

<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>
291605	0.99376	0.03517	-1.41937	0.06810	0.54380	0.02004	309032	1.03305	0.02556	-0.92376	0.03604	0.28469	0.01508
291606	0.75805	0.02643	0.25543	0.04233	0.37097	0.01233	302136	0.70184	0.01807	-1.35095	0.06019	0.16400	0.02274
291607	0.48493	0.01777	-0.19609	0.07688	0.17544	0.02117	302142	0.59161	0.01921	-0.17954	0.05717	0.22016	0.01723
291604	0.74594	0.02227	-0.72506	0.05622	0.32816	0.01810	302145	0.75488	0.02050	-0.58611	0.04624	0.24902	0.01618
291613	0.84573	0.02399	-1.07772	0.05434	0.33996	0.01922	302148	0.93657	0.02383	-0.49832	0.03485	0.28529	0.01338
298382	0.74303	0.02021	-1.87353	0.07362	0.19463	0.02981	302149	0.73439	0.01929	-0.64339	0.04601	0.20939	0.01643
298397	0.35997	0.00784	-1.43206	0.03872	0.00000	0.00000	302151	0.78621	0.02080	-0.38350	0.03962	0.23780	0.01419
298388	0.71492	0.02017	-1.42365	0.06956	0.24429	0.02518	302152	0.72042	0.02272	-0.39183	0.05363	0.33762	0.01632
298390	0.79624	0.02058	-1.36345	0.05520	0.21575	0.02170	302154	0.61975	0.01982	-1.82407	0.10535	0.26077	0.03567
298394	0.83066	0.02500	0.45581	0.02913	0.26718	0.01005	302155	0.70087	0.01918	-0.45307	0.04622	0.20967	0.01586
298393	0.50785	0.00914	-1.51467	0.03019	0.00000	0.00000	302157	0.55612	0.01949	-1.19965	0.10277	0.28640	0.02939
298398	0.99409	0.02612	-1.36950	0.04612	0.28872	0.01934	306942	0.47846	0.01660	-1.22770	0.11228	0.17701	0.03228
298401	0.71876	0.01988	-1.86249	0.07736	0.19885	0.03059	306951	0.60745	0.01827	-0.36816	0.05542	0.19354	0.01754
298402	0.38478	0.00817	-1.73417	0.04156	0.00000	0.00000	306953	0.49852	0.01619	-1.87840	0.12589	0.16666	0.04003
298404	0.96184	0.02277	-0.64135	0.03265	0.23532	0.01341	306954	0.67619	0.02309	0.15636	0.04708	0.30586	0.01394
309022	1.04741	0.02917	-1.95461	0.05420	0.24504	0.02555	306959	0.80912	0.02354	0.15619	0.03368	0.27455	0.01154
309025	1.24682	0.02672	-0.87436	0.02411	0.18507	0.01180							
309028	0.60239	0.01657	-0.65025	0.05556	0.13915	0.01846							
309030	0.62216	0.01932	0.07464	0.04548	0.19448	0.01442							
309029	0.82283	0.01962	-0.29169	0.03164	0.17207	0.01215							

**Table I-6. 2015 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>
291620	0.84596	0.00554	-0.7846	0.00855	2.78611	0.034	0.88414	0.01566	-0.92938	0.01049	-2.74087	0.0141	0	0
298406	0.85274	0.0055	-0.16007	0.00859	2.90884	0.02717	0.97903	0.01323	-1.0833	0.01072	-2.80457	0.01911	0	0
302163	0.89722	0.00591	-0.14531	0.00829	3.13951	0.02993	0.94305	0.01274	-1.04344	0.0103	-3.03912	0.02187	0	0
309035	0.93392	0.00612	0.03382	0.00786	2.78617	0.02354	0.84611	0.0115	-0.77799	0.00988	-2.85428	0.02185	0	0

**Table I-7. 2015 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>
297930	0.54799	0.01874	-1.05647	0.10365	0.21504	0.03288	292329	0.63231	0.01852	-1.34855	0.08503	0.18111	0.03207
297924	0.44930	0.01599	-1.44648	0.14225	0.15562	0.04268	292328	0.57572	0.01752	-2.07432	0.12124	0.16859	0.04760
297925	0.66799	0.01725	-0.27838	0.04308	0.11302	0.01559	292332	1.26609	0.03344	-1.06174	0.03448	0.30575	0.01690
297929	0.44330	0.00938	-2.02802	0.04463	0.00000	0.00000	292334	0.33848	0.01483	-0.80080	0.17203	0.12301	0.03968
297935	0.80012	0.02036	-0.56733	0.04284	0.19233	0.01681	292341	0.65558	0.01671	-1.42265	0.06861	0.11283	0.02792
298523	0.80563	0.02134	-1.19602	0.05766	0.21031	0.02433	292339	0.64526	0.01750	-0.94622	0.06414	0.14147	0.02397
298532	0.56238	0.02389	1.06304	0.04405	0.20934	0.01296	292344	0.42439	0.01871	-0.20096	0.11743	0.17904	0.02978
298533	0.82193	0.02330	-0.67944	0.05116	0.29641	0.01874	292346	0.60440	0.01271	-2.51813	0.04509	0.00000	0.00000
298535	0.65660	0.01914	0.53607	0.03285	0.12114	0.01126	292350	0.42481	0.01602	-0.71981	0.11982	0.13092	0.03284
298536	0.52926	0.01703	-0.14420	0.06420	0.12209	0.01996	292351	0.79236	0.02022	-2.07503	0.06960	0.12273	0.03488
298537	0.53321	0.01479	-1.67427	0.09601	0.10862	0.03483	308292	0.59626	0.02023	0.38624	0.04777	0.18110	0.01492
298540	0.52384	0.01944	-0.13221	0.07845	0.20385	0.02247	308293	0.64606	0.01937	-0.46549	0.06007	0.20385	0.02027
298541	0.44701	0.01758	0.30071	0.07490	0.11506	0.02078	308295	0.65488	0.01978	-1.05060	0.07736	0.22610	0.02755
298528	0.76382	0.02221	0.13297	0.03791	0.23686	0.01306	308299	0.63379	0.01130	-1.75997	0.02982	0.00000	0.00000
298551	0.94591	0.02296	-0.67234	0.03654	0.21847	0.01564	308304	0.62537	0.01679	-0.89372	0.06301	0.12280	0.02319
309641	0.72461	0.02013	-0.82845	0.05841	0.21489	0.02185	308305	0.45310	0.00859	-1.02762	0.02791	0.00000	0.00000
309450	0.66878	0.01876	-1.08929	0.06966	0.17949	0.02638							
309452	1.31448	0.03503	-0.89519	0.03198	0.33860	0.01512							
309459	0.87318	0.02149	-0.65777	0.03963	0.20198	0.01640							
309464	0.83776	0.02110	0.03238	0.03064	0.18072	0.01172							

**Table I-8. 2015 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>
292354	0.73932	0.00483	-0.57847	0.00976	2.57583	0.02988	0.9326	0.01612	-0.78137	0.0119	-2.72706	0.01588	0	0
297936	0.72346	0.00464	-0.07822	0.01002	2.96733	0.02851	1.00861	0.01462	-0.97352	0.01232	-3.00242	0.02165	0	0
298553	0.90428	0.00589	0.42533	0.00809	2.53183	0.01862	0.7372	0.01085	-0.84961	0.01097	-2.41942	0.02029	0	0
309467	0.9878	0.00648	0.39453	0.00737	2.1189	0.01555	0.69066	0.01018	-0.67902	0.00991	-2.13054	0.01681	0	0

**Table I-9. 2015 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>
309755	0.74851	0.02807	-0.45062	0.06287	0.37177	0.02003	308431	0.86386	0.02016	-1.19633	0.04227	0.10491	0.02112
309098	1.20781	0.03945	-2.07641	0.06594	0.30018	0.04076	277046	0.77514	0.02159	-1.07484	0.05695	0.17764	0.02510
309104	1.02825	0.02552	-0.51314	0.02962	0.21346	0.01397	277019	0.93891	0.02494	-1.67561	0.05780	0.18089	0.03169
309109	0.65382	0.02018	-0.70043	0.06096	0.14832	0.02341	277023	0.53590	0.02158	-0.27573	0.07850	0.16488	0.02504
309112	0.63851	0.01421	-2.52487	0.04493	0.00000	0.00000	277025	0.97862	0.02406	-0.04133	0.02271	0.15056	0.01032
309113	1.09208	0.03003	-2.02798	0.05682	0.17187	0.03637	277027	0.69737	0.01943	-0.90908	0.05620	0.12732	0.02342
293816	0.83828	0.02203	-0.81710	0.04378	0.17280	0.01967	277039	0.58678	0.01927	-0.20791	0.05328	0.10208	0.01906
293286	0.40268	0.01128	-2.94009	0.07520	0.00000	0.00000	277040	0.61147	0.02129	-0.96382	0.08611	0.19916	0.03095
293288	0.99983	0.02678	-1.35949	0.04953	0.24126	0.02552	277047	0.71815	0.02249	-1.16380	0.07386	0.22471	0.02993
293289	1.09183	0.02791	-0.71610	0.03268	0.26655	0.01567	277049	0.93388	0.02653	-2.07592	0.07231	0.18616	0.04216
293291	0.52893	0.01756	-1.31885	0.10239	0.12664	0.03651	278782	0.83760	0.02098	-1.20108	0.04856	0.13603	0.02358
293295	0.94282	0.02290	-1.06678	0.04009	0.16142	0.02021	278789	0.53024	0.01154	-2.16916	0.04174	0.00000	0.00000
293293	0.98863	0.02417	-0.09620	0.02320	0.15635	0.01062	278794	0.60413	0.01993	-0.93917	0.07947	0.15731	0.02936
293296	0.48336	0.00975	-1.15626	0.02607	0.00000	0.00000	278798	1.04315	0.02790	-1.12037	0.04334	0.27687	0.02131
293299	0.80674	0.02026	-0.41791	0.03358	0.11195	0.01462	278806	0.97894	0.02680	-1.54364	0.05570	0.23180	0.02945
293300	0.95135	0.02437	-0.60741	0.03457	0.20859	0.01585	278786	1.12736	0.02597	-1.00284	0.03100	0.18009	0.01694
307854	1.10150	0.02342	-0.68246	0.02425	0.12468	0.01274							
308433	0.72729	0.01972	-1.02855	0.05574	0.13162	0.02419							
307858	0.87396	0.02107	-0.82454	0.03745	0.13129	0.01772							
307859	1.26957	0.02948	-0.99578	0.02799	0.21410	0.01597							

**Table I-10. 2015 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)
277055	1.20308	0.00796	-0.34182	0.00619	2.21939	0.02053	0.65032	0.00954	-0.6028	0.00779	-2.26691	0.01438	0	0
293306	1.32985	0.00885	-0.08932	0.00564	1.80612	0.01368	0.80099	0.00872	-0.58019	0.00742	-2.02692	0.01425	0	0
307866	1.143	0.00751	-0.18389	0.00654	2.33782	0.02013	0.79768	0.0098	-0.83993	0.00848	-2.29557	0.0164	0	0
309114	0.87803	0.00564	-0.02901	0.00829	2.80579	0.02413	0.92184	0.01133	-0.82296	0.01055	-2.90467	0.02653	0	0
281247C	1.14932	0.00885	-2.1532	0.00683	2.79144	0.13338	2.2148	0.07959	-0.13073	0.01521	-0.61413	0.01199	-1.88356	0.00821
281247T	1.06522	0.00628	-0.04109	0.00658	3.72683	0.04643	3.4274	0.03727	2.10845	0.01645	1.66398	0.01326	0.32823	0.00876

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)		
277055														
293306														
307866														
309114														
281247C	-2.37782	0.00805	0	0										
281247T	-0.10365	0.00843	-1.45738	0.01122	-2.08666	0.01576	-3.56331	0.04896	-4.0439	0.07456	0	0		

**Table I-11. 2015 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)
309412	0.48590	0.02184	-0.46427	0.12319	0.27306	0.03231	276013	1.16713	0.03398	-1.60053	0.05176	0.28950	0.02810
309421	0.34180	0.02559	-0.61444	0.30943	0.37086	0.05315	276016	0.68153	0.01966	-0.91322	0.06649	0.18208	0.02581
309423	0.81758	0.02354	-1.19385	0.06469	0.26071	0.02736	276020	0.66908	0.01960	-1.28982	0.08020	0.17964	0.03233
309424	0.50943	0.01435	-0.70420	0.06867	0.07266	0.02277	276019	0.55484	0.01018	-1.33926	0.02786	0.00000	0.00000
309427	0.42867	0.00930	-1.66235	0.04037	0.00000	0.00000	276027	0.49576	0.00928	-0.92728	0.02493	0.00000	0.00000
275966	0.64807	0.01261	-2.02527	0.03529	0.00000	0.00000	276034	1.22384	0.03136	-1.49491	0.03940	0.19209	0.02318
275965	0.76386	0.02341	-1.29648	0.07755	0.27829	0.03120	291936	0.51821	0.01715	-3.11406	0.16843	0.17217	0.06761
275987	0.96757	0.02440	-1.82788	0.05409	0.12914	0.03042	291938	0.59384	0.02028	-1.96043	0.13788	0.22567	0.05347
275967	0.79403	0.02324	-0.44182	0.04915	0.27539	0.01828	291940	0.73917	0.02481	-1.05036	0.08139	0.35402	0.02817
276008	0.73859	0.02076	-1.07734	0.06475	0.19944	0.02669	291951	0.80172	0.02153	-0.85366	0.05201	0.20818	0.02180

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
291952	0.19738	0.01778	0.23043	0.43747	0.16508	0.05907
291958	0.94085	0.02270	-1.12119	0.04298	0.16522	0.02115
283639	0.96733	0.02862	-1.47789	0.06329	0.31038	0.02952
283648	0.66517	0.02061	-0.72539	0.06890	0.22240	0.02479
294564	1.15559	0.02507	-0.78303	0.02680	0.15179	0.01407
283656	0.85911	0.02278	-0.87981	0.04887	0.22744	0.02110
294079	1.05504	0.02168	-0.78287	0.02662	0.09864	0.01340
283661	0.98125	0.02340	-0.29521	0.02918	0.19939	0.01301

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
283663	0.86246	0.02155	-0.73462	0.04206	0.18475	0.01850
283665	0.97113	0.02527	-1.73728	0.05592	0.16096	0.03084
309118	0.74120	0.01192	-1.13370	0.02000	0.00000	0.00000
309120	0.73202	0.01949	-1.02871	0.05897	0.15680	0.02481
309125	0.90920	0.02436	-1.72645	0.06275	0.17784	0.03300
309126	1.34535	0.03568	-1.27503	0.03514	0.26532	0.01998
309132	0.90319	0.02393	-0.51710	0.04014	0.25591	0.01667
309133	0.68111	0.02528	0.75715	0.03788	0.23959	0.01231

**Table I-12. 2015 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)
276040	1.11103	0.00771	-0.70683	0.00663	1.8905	0.02302	0.7286	0.01297	-0.69857	0.00863	-1.92054	0.0094	0	0
283668	1.04036	0.00694	-0.41753	0.00692	1.92803	0.02029	0.61875	0.01146	-0.62693	0.00885	-1.91984	0.01066	0	0
291966	1.04869	0.00695	-0.40132	0.00691	2.14074	0.02249	0.68684	0.01166	-0.73613	0.00878	-2.09144	0.01135	0	0
309428	0.96825	0.00651	-0.48797	0.00754	2.3195	0.02601	0.86849	0.01335	-1.04293	0.00937	-2.14506	0.0117	0	0

**Table I-13. 2015 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)
308523	0.99968	0.01789	-1.92311	0.04078	0.24140	0.02222
308525	0.84613	0.01679	-0.94184	0.03797	0.39520	0.01366
308529	0.80510	0.01318	-0.92849	0.03025	0.19925	0.01316
308531	0.69975	0.01501	-0.16194	0.03318	0.30483	0.01087
308537	0.74003	0.01286	-0.60456	0.03013	0.20022	0.01197
309660	1.01540	0.01356	-0.52983	0.01560	0.14482	0.00777
308540	0.88649	0.01620	-1.22179	0.03680	0.32907	0.01544
309677	0.80145	0.01671	-3.02031	0.08471	0.16368	0.05128
308641	0.39852	0.00611	-2.44675	0.03583	0.00000	0.00000

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
308640	0.94064	0.01759	-0.76777	0.02979	0.39684	0.01130
308648	0.61460	0.01076	-0.80368	0.03756	0.09969	0.01450
308650	0.53974	0.00958	-1.97001	0.06468	0.07783	0.02591
293632	0.68915	0.01231	-1.18654	0.04285	0.17357	0.01765
293634	0.42850	0.00704	-3.07206	0.04588	0.00000	0.00000
293635	0.81078	0.01480	-0.33377	0.02641	0.28362	0.00997
293640	0.80308	0.01279	-0.37356	0.02232	0.17146	0.00938
309265	1.28032	0.01784	-0.32172	0.01253	0.24635	0.00650
309272	0.65132	0.01228	-1.41227	0.05274	0.17247	0.02147

continued



Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
309277	0.57357	0.00753	-2.40574	0.02713	0.00000	0.00000
309928	0.85500	0.01493	0.21184	0.01743	0.21634	0.00691
309268	0.63989	0.01203	-0.95747	0.04381	0.17096	0.01672
309281	1.57021	0.02257	-0.68969	0.01238	0.28462	0.00728
309931	0.31193	0.00503	-1.04729	0.02219	0.00000	0.00000
309927	0.99027	0.01364	-0.59227	0.01717	0.15884	0.00843
302189	0.72175	0.01746	-1.06475	0.05835	0.47071	0.01674
302192	0.78556	0.01357	-1.43293	0.04090	0.20134	0.01855
302193	0.66450	0.01305	-1.33837	0.05351	0.22287	0.02087

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
302199	0.65126	0.01389	-0.75419	0.04692	0.28697	0.01571
302196	1.02982	0.01716	-0.91169	0.02510	0.32554	0.01128
302207	0.82094	0.01571	-1.43841	0.04556	0.31682	0.01889
302208	0.77689	0.01539	-1.88259	0.05919	0.26963	0.02651
302197	0.89167	0.01381	-0.37754	0.02000	0.20364	0.00874
296622	1.05025	0.01891	-2.05538	0.04041	0.22225	0.02349
296625	0.72210	0.01314	-1.05206	0.04020	0.22217	0.01611
296628	0.90428	0.01648	-0.98791	0.03278	0.35082	0.01320
296629	0.74373	0.01339	-0.78509	0.03443	0.23558	0.01350

**Table I-14. 2015 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)
302212	0.96213	0.00392	-1.20797	0.00482	2.11761	0.0195	1.1162	0.01122	-0.4607	0.00614	-2.77311	0.00741	0	0
308544	1.09217	0.0044	-0.87855	0.00412	2.224	0.01745	0.9215	0.00847	-0.66184	0.00511	-2.48366	0.00709	0	0
308654	1.20517	0.00503	-1.08349	0.00382	2.06694	0.01819	0.75887	0.00841	-0.52396	0.00507	-2.30185	0.00574	0	0
309286	1.04598	0.00412	-0.6634	0.00418	1.86972	0.01249	0.86316	0.00756	-0.5165	0.00522	-2.21637	0.00706	0	0
304973C	1.14009	0.0058	-2.64056	0.0046	2.7648	0.13084	2.18879	0.07676	0.01095	0.01418	-0.52029	0.01023	-1.91828	0.00548
304973T	1.02906	0.00373	-0.32892	0.00419	4.14143	0.05026	3.87053	0.04068	2.48267	0.01549	2.03585	0.01188	0.53551	0.00607

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)		
302212														
308544														
308654														
309286														
304973C	-2.52597	0.00492	0	0										
304973T	0.04868	0.00544	-1.62826	0.0064	-2.42787	0.00928	-4.29408	0.03617	-4.76446	0.05374	0	0		

**Table I-15. 2015 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>
260562	0.88614	0.02809	-0.63101	0.05735	0.43491	0.01910	297409	0.87182	0.01956	-0.35600	0.03237	0.14354	0.01397
280789	0.88756	0.02346	-0.65155	0.04540	0.27740	0.01857	297631	1.18252	0.03690	0.14270	0.03162	0.47866	0.01056
300727	0.69487	0.01978	-0.49624	0.05827	0.24663	0.02055	306372	0.75938	0.02301	0.82272	0.03190	0.23323	0.01049
260962	0.54726	0.02022	-0.40768	0.09514	0.32043	0.02561	300724	0.43362	0.01593	-2.58138	0.20396	0.20868	0.06199
297398	0.61963	0.01915	-1.23028	0.09166	0.26988	0.03137	306340	0.61877	0.01713	-0.90976	0.07047	0.18198	0.02536
293456	0.86950	0.02363	0.04235	0.03642	0.28226	0.01343	227235	0.59459	0.01492	-1.96551	0.07558	0.08804	0.02867
207009	0.47812	0.01805	-1.35969	0.14944	0.28442	0.04125	293457	1.12347	0.02568	-0.72692	0.02982	0.18962	0.01510
297400	0.76476	0.02084	-0.12002	0.04353	0.23984	0.01579	303395	0.86497	0.02327	1.55315	0.01857	0.09585	0.00539
252335	1.06698	0.02493	-0.30975	0.02840	0.22415	0.01299	303410	0.57799	0.01907	-0.56606	0.08390	0.27161	0.02539
306285	0.77359	0.01930	-0.14304	0.03831	0.17721	0.01480	297406	0.95674	0.02464	-0.29033	0.03579	0.28019	0.01460
207012	0.74838	0.01959	-0.74688	0.05351	0.21356	0.02104	281997	0.75362	0.01243	-1.17690	0.02155	0.00000	0.00000
260542	1.07038	0.02219	-0.72217	0.02673	0.11288	0.01340	297405	0.82392	0.01259	-0.79783	0.01670	0.00000	0.00000
300045	0.77276	0.01980	-0.29352	0.04255	0.20218	0.01639	225883	0.71521	0.01080	-0.39796	0.01557	0.00000	0.00000
203703	1.09305	0.02486	-0.56324	0.02901	0.19498	0.01415	304449	0.78346	0.01332	-1.36266	0.02309	0.00000	0.00000
253634	0.62128	0.02021	-1.41470	0.10361	0.31259	0.03448	293516	0.67882	0.01023	-0.09580	0.01452	0.00000	0.00000
306384	0.41981	0.02278	-1.17189	0.24044	0.48422	0.04294	297638	0.30857	0.00948	-3.53666	0.11274	0.00000	0.00000

**Table I-16. 2015 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>
282473	0.65567	0.00676	-0.9679	0.01435	0.84333	0.01957	-0.84333	0.01371	0	0
297643	0.7008	0.00574	0.52913	0.01112	1.2946	0.01446	-1.2946	0.01451	0	0
301611	0.40201	0.00554	-2.68713	0.03515	1.02411	0.03776	-1.02411	0.02426	0	0
306370	0.73457	0.00703	0.76799	0.01068	0.63444	0.01227	-0.63444	0.01292	0	0

**Table I-17. 2015 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)
229063	0.71207	0.02648	-2.18852	0.14836	0.34060	0.06325	258191	0.97683	0.03139	0.29513	0.03321	0.36694	0.01177
258184	0.90125	0.02989	-2.44755	0.09791	0.21442	0.05741	247587	0.99267	0.02129	-0.50218	0.02806	0.10427	0.01413
279779	1.49378	0.04562	0.77059	0.01703	0.37499	0.00671	307309	1.02952	0.02956	0.44491	0.02512	0.27723	0.01000
299678	0.49085	0.01942	-0.18198	0.09429	0.15156	0.02859	303328	1.26243	0.03112	1.06988	0.01274	0.11632	0.00489
293714	0.68168	0.02283	-0.54735	0.07293	0.26378	0.02595	247465	0.81942	0.02223	-1.92173	0.07376	0.14503	0.04014
307055	1.14898	0.03187	0.72964	0.01862	0.24082	0.00765	272167	0.54267	0.02218	0.38317	0.06661	0.18048	0.02058
247745	1.17709	0.03069	-0.01418	0.02573	0.29658	0.01151	222213	1.11959	0.04730	0.83516	0.03009	0.52947	0.00808
286779	0.30007	0.00833	-1.01127	0.04280	0.00000	0.00000	227379	1.28290	0.03161	0.30434	0.01871	0.24745	0.00867
297987	0.85926	0.02218	0.63477	0.02153	0.10563	0.00875	218902	0.91024	0.02312	-0.12109	0.03228	0.18370	0.01413
307023	0.94662	0.02281	0.52765	0.01964	0.11079	0.00835	307080	1.03032	0.02767	-0.71084	0.04169	0.28344	0.01969
302794	0.96896	0.02540	0.51963	0.02202	0.17332	0.00922	301814	0.39714	0.01062	-2.45928	0.06769	0.00000	0.00000
307084	0.71672	0.02280	0.40926	0.03815	0.17867	0.01396	307066	0.73052	0.01140	-0.51485	0.01540	0.00000	0.00000
307082	1.01802	0.02983	-1.55673	0.06332	0.26582	0.03501	293720	0.47241	0.00936	-0.71054	0.02443	0.00000	0.00000
307015	0.86383	0.03515	0.15170	0.05329	0.51040	0.01414	307304	0.99425	0.01484	-0.79902	0.01397	0.00000	0.00000
258205	1.17038	0.03311	-0.11325	0.03029	0.36980	0.01260	221898	0.67095	0.01117	-0.80851	0.01907	0.00000	0.00000
280097	1.03177	0.02294	-1.07795	0.03528	0.10886	0.01990	303332	0.80046	0.01212	-0.53743	0.01447	0.00000	0.00000
247687	1.00373	0.03537	-1.42988	0.07932	0.45104	0.03342	279790	0.70190	0.01373	-1.78019	0.03181	0.00000	0.00000
221974	1.00934	0.02814	-1.21241	0.05384	0.26769	0.02786							
307313	0.57073	0.01866	-0.56583	0.07985	0.14633	0.02814							
293523	0.97062	0.03003	0.30906	0.03151	0.33124	0.01164							
307308	0.86300	0.02331	0.16726	0.03106	0.18429	0.01274							

**Table I-18. 2015 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)
264547	1.15358	0.00917	-0.22357	0.00682	0.98796	0.01194	0.01804	0.00878	-0.15003	0.00853	-0.85597	0.00837	0	0
272227	0.94823	0.00628	0.03371	0.00754	1.89859	0.01708	0.57223	0.01067	-0.71786	0.00969	-1.75296	0.01242	0	0
297972	0.91889	0.00697	-0.46963	0.00819	1.34118	0.01676	0.50356	0.01215	-0.62937	0.00984	-1.21537	0.00998	0	0
307122	1.06558	0.00809	-0.57965	0.00726	1.33638	0.01697	0.3283	0.01095	-0.46041	0.00906	-1.20427	0.00886	0	0

**Table I-19. 2015 MCAS: IRT Parameters for Dichotomous Items –  
Mathematics Grade 5**

<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>
262213	0.84499	0.02636	-1.91491	0.08806	0.28502	0.03934	298108	0.80142	0.02251	-0.36563	0.04883	0.27354	0.01826
198669	0.99798	0.02567	-0.45353	0.03809	0.29525	0.01617	301588	0.83484	0.04511	0.62826	0.06037	0.64739	0.01108
260840	0.86504	0.02203	-1.75503	0.06045	0.13962	0.02945	298007	0.69987	0.02864	0.79155	0.04415	0.32642	0.01336
303744	1.36317	0.03308	-0.01603	0.02256	0.32185	0.01068	306440	0.84611	0.01880	0.13127	0.02580	0.09914	0.01073
280478	1.32637	0.03251	0.73323	0.01550	0.22999	0.00712	306392	0.82732	0.02234	0.20927	0.03355	0.20953	0.01298
309794	0.78552	0.01901	-0.62303	0.04440	0.15382	0.01850	262207	1.12397	0.02388	-0.23424	0.02400	0.16998	0.01168
301596	1.13552	0.02882	0.48807	0.02118	0.25691	0.00913	248996	1.41899	0.03193	0.04670	0.01914	0.26178	0.00969
287414	0.68558	0.02421	0.34286	0.05014	0.28658	0.01585	280818	0.78377	0.02063	-0.29512	0.04375	0.20594	0.01707
204722	1.43784	0.02821	-0.40445	0.01785	0.12714	0.00991	272788	0.45564	0.01101	-2.63906	0.06551	0.00000	0.00000
206940	0.73416	0.01730	-0.47928	0.04161	0.10898	0.01672	248727	0.78205	0.02171	-0.73388	0.05702	0.26094	0.02204
306447	0.94850	0.02332	-1.00865	0.04502	0.21743	0.02100	287252	0.66464	0.02027	0.21054	0.04525	0.17877	0.01576
298012	0.96794	0.02175	-0.31055	0.03025	0.17226	0.01369	303760	0.59639	0.00991	-0.14134	0.01665	0.00000	0.00000
262222	1.50291	0.03123	0.54952	0.01271	0.16572	0.00646	306419	0.96506	0.01322	0.22311	0.01010	0.00000	0.00000
306432	1.30287	0.03427	1.37070	0.01197	0.11386	0.00447	306452	0.95501	0.01359	-0.44275	0.01334	0.00000	0.00000
280507	1.48224	0.03540	0.99630	0.01171	0.17459	0.00544	238611	0.74919	0.01290	-1.43387	0.02612	0.00000	0.00000
217315	0.69805	0.02111	-1.23829	0.08332	0.26662	0.03118	303761	0.91528	0.01290	-0.22884	0.01247	0.00000	0.00000
306463	0.74562	0.02754	-1.74166	0.11938	0.44028	0.03948	287264	0.62848	0.01084	-1.12228	0.02541	0.00000	0.00000
306431	0.80571	0.02228	-1.40967	0.06889	0.23776	0.02974							
298024	1.14219	0.03510	0.10155	0.03353	0.46593	0.01164							
207149	1.05678	0.02718	-0.33218	0.03460	0.31389	0.01473							
306406	1.44077	0.00000	1.99983	0.02958	0.47691	0.00493							

**Table I-20. 2015 MCAS: IRT Parameters for Polytomous Items –  
Mathematics Grade 5**

<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>
287620	1.14042	0.00844	0.02277	0.00651	1.14774	0.01261	0.05518	0.00874	-0.05105	0.00856	-1.15187	0.00848	0	0
301188	1.03865	0.00769	-0.26795	0.00713	1.18389	0.01489	0.33269	0.01067	-0.28302	0.00916	-1.23357	0.00883	0	0
306390	0.98223	0.00772	-0.96221	0.00814	1.47632	0.02401	0.48397	0.01494	-0.43016	0.01081	-1.53012	0.00913	0	0
306400	1.04875	0.00837	-0.19138	0.00748	1.10719	0.01391	0.38416	0.01057	-0.61586	0.00869	-0.87549	0.00865	0	0

**Table I-21. 2015 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)
226187	1.39991	0.03598	-0.90273	0.03122	0.24291	0.01868	307348	1.05216	0.02713	0.04071	0.02992	0.27053	0.01336
290243	0.81172	0.01921	-1.05578	0.04877	0.10382	0.02322	308013	0.83292	0.02156	-0.44361	0.04466	0.18746	0.01961
298142	0.78605	0.02194	-0.38032	0.05056	0.21851	0.02068	266115	0.81023	0.02299	-0.04342	0.04313	0.23279	0.01714
309779	0.72525	0.02256	0.08367	0.04929	0.23026	0.01804	289742	0.68800	0.02053	0.26145	0.04325	0.15443	0.01619
280697	1.03225	0.02597	-0.15227	0.03210	0.25007	0.01480	307402	1.05645	0.02847	1.46438	0.01436	0.07449	0.00475
306618	1.12437	0.02344	0.72524	0.01406	0.07871	0.00633	281968	0.89819	0.02558	0.59951	0.02767	0.21382	0.01118
307330	1.25724	0.02555	0.81776	0.01200	0.07650	0.00539	251301	0.95332	0.02667	-0.41461	0.04444	0.31173	0.01889
251262	0.49838	0.01648	-2.84512	0.15374	0.14138	0.05687	282340	1.41952	0.03748	0.80813	0.01589	0.27620	0.00724
307341	1.69841	0.04897	1.48183	0.01119	0.16791	0.00418	298171	1.03128	0.02630	0.18528	0.02775	0.24261	0.01234
307333	1.02462	0.02784	0.96487	0.01851	0.16741	0.00781	251263	0.36196	0.02024	-0.77653	0.24097	0.23227	0.05431
290241	0.75961	0.01869	-0.40626	0.04300	0.11566	0.01849	217494	0.60385	0.01950	-0.85085	0.08996	0.19321	0.03278
307270	0.93821	0.02019	-1.03417	0.03630	0.07685	0.01828	282348	1.13058	0.01551	-0.00659	0.00982	0.00000	0.00000
307265	1.21611	0.03212	-0.11798	0.02941	0.34315	0.01355	298265	0.39832	0.01187	-3.01726	0.09423	0.00000	0.00000
307213	0.80163	0.02522	0.06876	0.04720	0.30063	0.01710	307219	0.77891	0.01366	-1.20315	0.02408	0.00000	0.00000
281669	0.85003	0.02551	0.25935	0.03822	0.27443	0.01454	307337	0.80003	0.01215	0.68114	0.01107	0.00000	0.00000
265882	0.86419	0.02422	-1.03053	0.06073	0.24470	0.02785	303715	1.15739	0.01665	1.12716	0.00923	0.00000	0.00000
307214	0.52185	0.02531	-1.39160	0.20532	0.43511	0.05155	307301	0.78506	0.01209	-0.27863	0.01455	0.00000	0.00000
251564	0.80405	0.02177	-1.51449	0.06982	0.15781	0.03424							
227737	1.33978	0.03318	0.30889	0.02034	0.28954	0.00981							
307344	1.44219	0.03040	0.53789	0.01351	0.15388	0.00699							
293845	0.50104	0.01767	-2.90448	0.18083	0.17765	0.06799							

**Table I-22. 2015 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	1.33511	0.01009	0.269	0.0057	0.91174	0.00976	0.08806	0.00759	-0.09416	0.0074	-0.90565	0.00776	0	0
290251	1.21813	0.01061	-0.44779	0.0073	0.77873	0.0131	0.07971	0.00964	-0.06098	0.00921	-0.79745	0.00802	0	0
307299	1.08113	0.0098	-1.52899	0.00893	1.43057	0.03517	0.61087	0.02144	-0.42951	0.01281	-1.61194	0.00906	0	0
307329	1.25614	0.00917	-0.0095	0.00598	1.14316	0.01253	0.28503	0.00879	-0.31681	0.00776	-1.11138	0.00799	0	0

**Table I-23. 2015 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)
309788	0.66459	0.01843	-2.28595	0.10198	0.13917	0.04976	306612	1.23665	0.02833	0.76662	0.01356	0.14017	0.00533
306604	1.07846	0.02718	0.11070	0.02389	0.27165	0.00957	306501	1.08036	0.02826	-0.21083	0.02912	0.32521	0.01161
302320	0.58567	0.04716	1.03676	0.08840	0.64753	0.01227	302325	0.85202	0.02565	0.48234	0.02916	0.26159	0.01005
302315	0.87349	0.02089	-0.85702	0.04049	0.16344	0.01833	295737	1.31323	0.02967	0.76507	0.01283	0.14215	0.00511
306635	1.31104	0.03821	0.41049	0.02134	0.40475	0.00764	306631	0.69290	0.02069	0.14834	0.04042	0.18580	0.01394
295748	1.21438	0.04535	1.39983	0.01830	0.28717	0.00530	259184	1.33594	0.03243	-1.02024	0.02820	0.25013	0.01554
288724	1.05598	0.02476	-0.47894	0.02862	0.22664	0.01293	272766	1.07823	0.02363	0.07833	0.01988	0.16443	0.00863
306603	0.89359	0.02389	-0.41510	0.03867	0.27558	0.01505	298187	0.87726	0.02325	0.32141	0.02644	0.20323	0.00992
301851	1.06950	0.02323	-0.72765	0.02771	0.15674	0.01371	306627	1.15881	0.02517	0.43307	0.01561	0.14354	0.00655
295746	1.40372	0.03575	0.64571	0.01517	0.26386	0.00614	235468	0.89973	0.02168	-0.35324	0.03226	0.19123	0.01349
298176	0.50722	0.01573	-0.82448	0.08577	0.10347	0.02832	303731	0.47472	0.00863	0.48146	0.01757	0.00000	0.00000
306645	0.81624	0.02715	0.62127	0.03135	0.29084	0.01013	281489	0.98272	0.01309	-0.38888	0.01090	0.00000	0.00000
304467	1.41879	0.03297	0.52760	0.01417	0.21783	0.00609	250263	0.98071	0.01297	-0.27477	0.01054	0.00000	0.00000
281465	1.20525	0.02838	0.60367	0.01554	0.18237	0.00631	298064	0.79023	0.01165	-0.93432	0.01585	0.00000	0.00000
281486	1.26502	0.02570	0.24928	0.01457	0.13577	0.00653	303699	1.20663	0.01536	0.11259	0.00847	0.00000	0.00000
272143	0.88973	0.02503	-0.22423	0.03802	0.30981	0.01383	288734	0.70458	0.01096	-1.10135	0.01873	0.00000	0.00000
208381	1.03752	0.02642	-1.33988	0.04434	0.21241	0.02324	301858	0.71493	0.01093	-1.00148	0.01767	0.00000	0.00000
301841	1.17805	0.02897	-0.01876	0.02284	0.28839	0.00961							
282957	1.34483	0.02643	0.49446	0.01192	0.10129	0.00503							
295741	1.16930	0.03224	0.20722	0.02407	0.36071	0.00897							
228035	1.01754	0.02555	-1.59863	0.04776	0.15166	0.02708							

**Table I-24. 2015 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)
219552	1.15132	0.01088	-1.1383	0.0088	0.7868	0.01478	0.03048	0.01082	-0.12463	0.01031	-0.69264	0.00909	0	0
261648	1.37757	0.01043	0.30591	0.00557	0.782	0.00821	0.19715	0.0074	-0.09307	0.00735	-0.88608	0.0083	0	0
282289	1.22274	0.00864	-0.79269	0.00616	1.72225	0.01967	0.75448	0.01221	-0.56794	0.00843	-1.90879	0.00886	0	0
296361	1.25426	0.00914	-0.79446	0.00613	1.50841	0.01742	0.54495	0.0111	-0.56396	0.00824	-1.4894	0.00811	0	0

**Table I-25. 2015 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)
297513	1.15925	0.02697	-0.73816	0.03322	0.19088	0.01867	307537	0.88529	0.02718	1.41157	0.01962	0.15142	0.00705
298201	0.95054	0.02760	0.27370	0.03509	0.32349	0.01311	229570	1.23009	0.02802	0.33589	0.01988	0.21137	0.00934
284914	0.91646	0.01969	-1.09761	0.03961	0.08835	0.02096	297650	0.94384	0.03340	1.62020	0.02076	0.21731	0.00670
296084	0.68630	0.01852	-0.13547	0.04982	0.13732	0.01931	307539	0.99180	0.03018	1.25248	0.01966	0.21720	0.00734
287508	0.98101	0.02280	0.00703	0.02901	0.17612	0.01317	287601	1.12939	0.02833	0.15120	0.02684	0.27896	0.01179
301684	0.78896	0.02130	0.31079	0.03558	0.17203	0.01389	307587	1.32613	0.03329	0.43855	0.02019	0.29874	0.00900
307421	1.11077	0.03294	0.99418	0.02062	0.29283	0.00788	301683	1.09647	0.03834	1.25423	0.02195	0.35682	0.00739
307389	0.75808	0.02207	0.26283	0.04187	0.21058	0.01553	284198	0.78938	0.02056	-0.34647	0.04775	0.18457	0.02007
289831	0.87918	0.02335	-0.21637	0.04261	0.24486	0.01779	301697	0.79262	0.01976	0.25557	0.03260	0.12691	0.01322
219567	0.75336	0.01732	-0.11663	0.03632	0.08649	0.01517	287762	1.55121	0.03633	0.99096	0.01192	0.19117	0.00551
307563	0.97110	0.02642	0.86488	0.02190	0.20172	0.00873	301685	1.18333	0.03235	1.05902	0.01705	0.23661	0.00692
297520	1.26032	0.03230	1.06974	0.01491	0.20317	0.00629	301479	0.68636	0.01048	0.52078	0.01261	0.00000	0.00000
307512	0.61150	0.03307	0.49866	0.09325	0.52468	0.01860	296119	0.97216	0.01414	-0.56224	0.01402	0.00000	0.00000
228313	0.94918	0.02214	-0.90865	0.04289	0.15253	0.02258	307400	1.04393	0.01470	-0.42373	0.01246	0.00000	0.00000
303341	0.92210	0.02713	-0.88164	0.06157	0.34222	0.02661	296753	0.77612	0.01177	-0.51586	0.01628	0.00000	0.00000
303787	0.81641	0.01783	-1.04179	0.04444	0.08645	0.02181	301708	1.25073	0.01692	-0.24204	0.01015	0.00000	0.00000
253764	0.94927	0.02899	0.20036	0.03903	0.37201	0.01383	307546	1.02520	0.01677	-1.07639	0.01780	0.00000	0.00000
297649	0.69630	0.02611	-0.66953	0.09799	0.42624	0.02940							
297660	0.61279	0.01011	-0.43259	0.01893	0.00000	0.00000							
253742	1.57088	0.04644	0.90328	0.01667	0.39556	0.00670							
228148	0.96559	0.06481	1.25242	0.05114	0.73772	0.00709							

**Table I-26. 2015 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)
265911	1.27471	0.0115	0.35875	0.00661	0.44813	0.00855	0.01974	0.00784	-0.04506	0.00778	-0.42281	0.00769	0	0
284774	1.40866	0.01065	0.39704	0.00547	1.38611	0.01105	-0.05523	0.00728	-0.4791	0.00711	-0.85179	0.00748	0	0
303348	0.85144	0.0071	-1.14328	0.00999	1.4826	0.02789	0.4015	0.01664	-0.38199	0.01272	-1.50211	0.01052	0	0
307588	1.45755	0.01172	-0.09595	0.00573	0.8029	0.01032	0.23617	0.00829	-0.26262	0.00735	-0.77645	0.00703	0	0

**Table I-27. 2015 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)
307945	0.95421	0.01151	-1.80393	0.02076	0.03020	0.01137	309637	0.75185	0.01381	-0.93348	0.03837	0.21948	0.01585
281580	2.18062	0.03121	-0.24431	0.00734	0.30634	0.00454	301408	1.26545	0.01855	0.65861	0.00786	0.13960	0.00328
292919	0.99449	0.01675	0.12115	0.01533	0.25764	0.00627	308895	0.39247	0.00559	-1.71137	0.02477	0.00000	0.00000
303380	0.55219	0.00694	-2.07566	0.02285	0.00000	0.00000	308000	0.83659	0.01205	-0.97294	0.02529	0.09329	0.01242
306536	0.37413	0.00581	-2.21145	0.03320	0.00000	0.00000	302035	0.42645	0.00573	-1.64630	0.02228	0.00000	0.00000
308031	1.29521	0.01795	-0.70272	0.01442	0.22254	0.00791	306776	0.34093	0.01642	-0.60944	0.18891	0.26268	0.03795
308716	0.69222	0.00698	-1.31533	0.01239	0.00000	0.00000	307965	1.58642	0.02028	0.17825	0.00719	0.17707	0.00373
258813	0.93238	0.01646	0.22504	0.01599	0.24711	0.00632	303304	1.03538	0.01628	-0.52132	0.01941	0.26674	0.00880
294024	0.92109	0.01584	-0.47443	0.02357	0.28606	0.00969	281724	1.51651	0.01878	-0.71990	0.01043	0.14710	0.00639
287445	0.88459	0.01517	-0.37552	0.02298	0.25739	0.00938	299919	0.86506	0.01572	-0.51104	0.02723	0.29907	0.01064
294676	0.89524	0.01746	-1.78138	0.05261	0.29298	0.02661	308896	0.69927	0.01560	0.18908	0.02743	0.25953	0.00920
279245	1.38979	0.02042	-0.59622	0.01393	0.29429	0.00733	308774	0.59117	0.01113	-1.09734	0.05055	0.09693	0.02011
306585	1.28782	0.01990	0.03079	0.01186	0.30085	0.00536	302058	0.85059	0.00753	-0.86688	0.00827	0.00000	0.00000
272630	2.24291	0.02683	-0.17214	0.00544	0.15535	0.00354	306777	0.55999	0.00638	-1.52781	0.01660	0.00000	0.00000
308918	0.55135	0.00728	-2.31028	0.02614	0.00000	0.00000	294027	0.83676	0.00717	-0.09176	0.00635	0.00000	0.00000
306481	0.86617	0.01574	-0.82213	0.03194	0.30127	0.01304	268255	0.70560	0.00661	-0.72180	0.00894	0.00000	0.00000
308723	1.06133	0.01647	-2.36074	0.03255	0.06492	0.02310							
307988	1.17942	0.01100	-1.38307	0.00862	0.00000	0.00000							
308711	1.23563	0.02253	-0.14406	0.01666	0.44283	0.00632							
308730	0.87867	0.01812	-0.28777	0.02800	0.40323	0.00933							

**Table I-28. 2015 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)
288091	1.78048	0.00825	-0.8047	0.00276	1.58066	0.01019	0.00233	0.0043	-0.4931	0.0037	-1.0899	0.00362	0	0
294329	1.38791	0.00624	-0.5786	0.00333	0.85506	0.00624	0.36511	0.00507	-0.28175	0.00431	-0.93843	0.00428	0	0
294530	1.40244	0.00631	-0.61451	0.00331	0.88398	0.00641	0.29838	0.00498	-0.23392	0.00433	-0.94844	0.00424	0	0
296364	1.20408	0.00489	-0.32006	0.00355	1.63227	0.00854	0.24744	0.00501	-0.571	0.00463	-1.30871	0.00531	0	0
306471	1.49501	0.00627	-0.09753	0.00294	0.96501	0.00518	0.36864	0.00424	-0.30632	0.00397	-1.02733	0.00456	0	0
306475	1.14303	0.00583	0.24464	0.00404	0.51395	0.00497	0.205	0.00481	-0.15599	0.00486	-0.56296	0.00523	0	0



**Table I-29. 2015 MCAS: IRT Parameters for Dichotomous Items –  
STE Grade 5**

<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>
299503	0.71538	0.01181	-1.38591	0.03822	0.21904	0.01480	294511	0.55625	0.01464	-0.49457	0.05746	0.39479	0.01378
299393	0.98425	0.01429	-0.33480	0.01622	0.23102	0.00687	299494	0.85120	0.01496	-1.16643	0.03362	0.35940	0.01233
288150	0.44822	0.00675	-3.42294	0.04424	0.00000	0.00000	304595	0.96033	0.01885	0.28287	0.01743	0.37175	0.00581
309744	0.25577	0.00554	-4.35488	0.08949	0.00000	0.00000	264888	1.30315	0.02156	0.54790	0.00967	0.27992	0.00389
291427	0.64552	0.01132	-1.33508	0.04388	0.21189	0.01584	281801	0.82759	0.01318	-1.10679	0.02944	0.26219	0.01176
273683	0.94283	0.01995	0.30924	0.01909	0.41666	0.00589	281803	0.60876	0.01208	-2.05657	0.06927	0.24971	0.02478
291245	0.51316	0.01473	0.19602	0.04670	0.30659	0.01173	294446	0.88520	0.01323	-0.60005	0.02074	0.22902	0.00849
288140	1.09312	0.01521	-1.13752	0.01924	0.22366	0.00943	294453	0.89510	0.01533	0.21267	0.01598	0.24978	0.00598
299443	0.96438	0.01476	-0.45721	0.01883	0.27527	0.00767	291292	0.78662	0.01444	0.31757	0.01787	0.22355	0.00638
273721	0.54775	0.01123	-1.11026	0.05537	0.22269	0.01716	264881	0.85882	0.01284	-0.41210	0.01936	0.20492	0.00781
291366	0.81054	0.01377	-1.00142	0.03140	0.30878	0.01165	304684	0.73286	0.01232	-0.53968	0.02711	0.22674	0.00983
294443	0.52237	0.01141	-0.57351	0.04886	0.20520	0.01434	227883	0.63215	0.01142	-1.19480	0.04397	0.22297	0.01527
294475	0.90932	0.01322	-1.16512	0.02445	0.21712	0.01085	314834	0.32470	0.00482	-1.81342	0.02820	0.00000	0.00000
304611	1.04463	0.01365	-0.23863	0.01268	0.16289	0.00573	291348	0.37300	0.00551	-2.76615	0.03789	0.00000	0.00000
273704	0.42933	0.01114	-0.58234	0.06957	0.17346	0.01820	314835	0.54260	0.00976	-1.18532	0.04741	0.12133	0.01606
314833	0.47430	0.01116	-1.61844	0.08808	0.22345	0.02546	291064	0.94449	0.01663	0.45929	0.01369	0.24518	0.00512
304594	0.98081	0.01426	-0.24154	0.01553	0.22229	0.00655	273750	0.65219	0.01596	0.18032	0.03240	0.35731	0.00890
291257	0.54257	0.01448	-1.31477	0.08448	0.44385	0.01965							
291126	0.60990	0.01066	-0.73957	0.03528	0.16060	0.01217							
294524	0.82288	0.01376	-0.01523	0.01878	0.22844	0.00700							
301138	0.61448	0.01056	-2.09117	0.05613	0.13087	0.02241							

**Table I-30. 2015 MCAS: IRT Parameters for Polytomous Items –  
STE Grade 5**

<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>
294537	0.88076	0.00347	0.4644	0.00474	1.77156	0.00749	0.3616	0.00589	-0.6437	0.00664	-1.48946	0.00902	0	0
294557	0.63748	0.00236	-0.2966	0.00642	2.71165	0.01503	0.80037	0.00861	-0.86235	0.00783	-2.64967	0.01184	0	0
304650	0.8419	0.00327	0.30316	0.00525	3.30982	0.01495	0.69639	0.00638	-1.28418	0.00796	-2.72203	0.01615	0	0
304674	0.8367	0.00316	-0.12205	0.00522	2.56752	0.01287	1.07332	0.00744	-1.17459	0.00685	-2.46624	0.01105	0	0

**Table I-31. 2015 MCAS: IRT Parameters for Dichotomous Items –  
STE Grade 8**

<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>
291744	0.83797	0.01391	-0.62903	0.02880	0.19992	0.01260	282037	0.87215	0.01346	-1.54619	0.03836	0.13013	0.02169
282058	1.50612	0.01963	0.02750	0.00907	0.21946	0.00491	291858	1.02553	0.02447	0.67451	0.01690	0.43352	0.00552
282030	0.96446	0.01363	-1.60791	0.03080	0.09432	0.01905	288352	1.19842	0.02371	1.10082	0.00930	0.21363	0.00358
294231	1.58173	0.02885	1.08570	0.00723	0.22250	0.00294	289595	1.11089	0.01639	-0.18163	0.01541	0.23830	0.00724
246345	1.13811	0.01923	-0.72415	0.02402	0.36489	0.01075	299420	0.54006	0.00585	-0.43550	0.01073	0.00000	0.00000
304517	1.14836	0.01833	-0.50801	0.01992	0.32587	0.00909	304527	0.49743	0.00579	-0.90945	0.01467	0.00000	0.00000
304529	1.26934	0.02389	0.17736	0.01540	0.45554	0.00576	265243	1.14757	0.01733	-1.30624	0.02620	0.19812	0.01582
281947	1.49433	0.02053	0.57920	0.00703	0.17804	0.00353	265260	0.87226	0.01376	-1.60714	0.04062	0.14112	0.02312
289775	1.30800	0.02016	0.44121	0.00981	0.25720	0.00459	291949	0.32934	0.00595	-2.62110	0.04873	0.00000	0.00000
265278	0.67068	0.01776	0.81432	0.02288	0.23165	0.00800	288329	0.68879	0.02080	0.95768	0.02358	0.30688	0.00764
291765	1.02244	0.01589	-0.26656	0.01852	0.24752	0.00831	299486	0.93813	0.01753	0.30790	0.01733	0.28572	0.00679
304554	0.47702	0.00566	-0.74257	0.01393	0.00000	0.00000	282054	2.11460	0.03588	1.08048	0.00553	0.20379	0.00242
289733	1.54422	0.02202	0.27665	0.00874	0.27280	0.00447	304491	0.81928	0.01636	0.66532	0.01557	0.18866	0.00621
291974	0.66899	0.01102	-1.05982	0.04096	0.08726	0.01803	281975	0.70473	0.01459	-0.02102	0.03027	0.22185	0.01092
291687	1.02882	0.01815	-0.83858	0.02943	0.35810	0.01274	294093	0.65553	0.01378	-0.02032	0.03236	0.17857	0.01165
294222	0.81397	0.01688	0.42990	0.01992	0.25834	0.00741	294103	0.83491	0.01417	-0.63617	0.02986	0.21573	0.01286
288310	0.92593	0.01677	0.33490	0.01642	0.24931	0.00663	294245	0.60199	0.01306	-0.21631	0.04047	0.15355	0.01427
299472	0.54215	0.00627	-1.39102	0.01766	0.00000	0.00000							
291688	1.14033	0.02029	0.59177	0.01162	0.28087	0.00491							
304564	1.22255	0.02120	1.06539	0.00810	0.14876	0.00320							
288350	0.33383	0.00545	-1.71798	0.03180	0.00000	0.00000							

**Table I-32. 2015 MCAS: IRT Parameters for Polytomous Items –  
STE Grade 8**

<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>
265274	0.76512	0.00285	0.64379	0.00533	2.14172	0.00896	0.64779	0.00648	-0.67107	0.00725	-2.11844	0.01289	0	0
265290	1.08634	0.00421	-0.20543	0.00387	1.42668	0.00823	0.75419	0.00624	-0.40676	0.00487	-1.77411	0.0064	0	0
299534	1.06126	0.00415	-0.13885	0.00399	1.56283	0.00857	0.90994	0.00654	-0.71751	0.00499	-1.75526	0.0066	0	0
304525	0.89657	0.00336	0.54264	0.00458	1.91552	0.008	0.60396	0.00575	-0.55756	0.00614	-1.96192	0.01117	0	0

**Table I-33. 2015 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>
306316	0.99394	0.00000	-1.13286	0.00000	0.27754	0.00000	304868	1.38614	0.00000	-0.16499	0.00000	0.32555	0.00000
290938	0.92342	0.00000	-0.23766	0.00000	0.22584	0.00000	304879	0.92755	0.00000	0.60212	0.00000	0.28767	0.00000
295271	1.04399	0.00000	-0.14174	0.00000	0.22733	0.00000	304994	0.63358	0.00000	-0.01866	0.00000	0.12546	0.00000
290946	1.09641	0.00000	0.66540	0.00000	0.34193	0.00000	208029	1.01012	0.00000	0.48877	0.00000	0.36910	0.00000
290036	1.27640	0.00000	-0.36420	0.00000	0.30212	0.00000	276801	0.88215	0.00000	-0.65096	0.00000	0.21906	0.00000
294807	1.26533	0.00000	1.07618	0.00000	0.56287	0.00000	304850	1.05614	0.00000	-0.56887	0.00000	0.12763	0.00000
293174	1.23704	0.00000	0.25436	0.00000	0.28135	0.00000	289300	0.87065	0.00000	0.03689	0.00000	0.15277	0.00000
260672	1.06256	0.00000	-0.85855	0.00000	0.24760	0.00000	289324	1.05672	0.00000	-0.20598	0.00000	0.17105	0.00000
268645	1.08247	0.00000	-0.48608	0.00000	0.28229	0.00000	273506	0.92535	0.00000	-0.56868	0.00000	0.15319	0.00000
260673	0.47091	0.00000	-1.16959	0.00000	0.12134	0.00000	299806	0.67455	0.00000	-0.32989	0.00000	0.13824	0.00000
260689	0.89212	0.00000	-0.63952	0.00000	0.26450	0.00000	304887	0.82090	0.00000	-1.15501	0.00000	0.15565	0.00000
279490	0.55315	0.00000	0.36906	0.00000	0.18515	0.00000	279793	1.28260	0.00000	0.35444	0.00000	0.33733	0.00000
299812	1.44665	0.00000	0.03102	0.00000	0.23693	0.00000	301330	0.81036	0.00000	-0.27363	0.00000	0.16534	0.00000
304894	1.29528	0.00000	0.29542	0.00000	0.27775	0.00000	234777	1.04164	0.00000	-0.60001	0.00000	0.15435	0.00000
299736	1.42024	0.00000	-0.36217	0.00000	0.18613	0.00000	299776	0.95117	0.00000	-0.30907	0.00000	0.26592	0.00000
304888	0.59574	0.00000	-1.46321	0.00000	0.17890	0.00000	301397	0.61539	0.00000	1.28047	0.00000	0.20063	0.00000
294812	1.22591	0.00000	0.37138	0.00000	0.19866	0.00000	304989	0.84570	0.00000	0.44759	0.00000	0.36855	0.00000
208193	0.91960	0.00000	0.00038	0.00000	0.29171	0.00000	299799	1.10411	0.00000	0.63721	0.00000	0.27317	0.00000
304867	0.67075	0.00000	-0.28664	0.00000	0.16398	0.00000							
304851	1.02320	0.00000	-0.26615	0.00000	0.28067	0.00000							
299685	0.82999	0.00000	0.14237	0.00000	0.28406	0.00000							
304881	0.85538	0.00000	-0.92589	0.00000	0.15448	0.00000							

**Table I-34. 2015 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>
260690	1.05889	0	1.02966	0	2.29923	0	1.25411	0	-0.2765	0	-3.27683	0	0	0
273305	1.05031	0	0.25313	0	1.51869	0	0.50655	0	-0.41758	0	-1.60766	0	0	0
276484	1.14589	0	0.13771	0	2.06664	0	0.57279	0	-0.48236	0	-2.15707	0	0	0
295307	1.30818	0	0.63849	0	1.82306	0	0.23551	0	-0.37464	0	-1.68392	0	0	0
299834	1.35667	0	0.7431	0	1.42062	0	0.86449	0	-0.60498	0	-1.68013	0	0	0

**Table I-35. 2015 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)
299690	1.29122	0.00000	-0.23997	0.00000	0.30783	0.00000	281310	1.02536	0.00000	-0.28139	0.00000	0.27283	0.00000
309490	1.39340	0.00000	0.42390	0.00000	0.36244	0.00000	275854	1.60832	0.00000	-0.10209	0.00000	0.24288	0.00000
300119	0.81002	0.00000	0.16893	0.00000	0.20998	0.00000	300189	1.10896	0.00000	-0.05089	0.00000	0.24343	0.00000
305197	1.12643	0.00000	0.32205	0.00000	0.24641	0.00000	208242	1.83237	0.00000	0.45698	0.00000	0.25469	0.00000
230480	1.23221	0.00000	-0.28894	0.00000	0.17437	0.00000	281269	1.59718	0.00000	-0.73003	0.00000	0.22921	0.00000
305196	0.54368	0.00000	-1.27241	0.00000	0.00000	0.00000	273009	0.57042	0.00000	-0.66883	0.00000	0.00000	0.00000
305213	0.98611	0.00000	0.20687	0.00000	0.25162	0.00000	281264	0.90572	0.00000	1.66347	0.00000	0.28418	0.00000
275844	1.31785	0.00000	0.77563	0.00000	0.26926	0.00000	273004	0.98629	0.00000	1.01383	0.00000	0.29074	0.00000
281333	1.17113	0.00000	1.27233	0.00000	0.32616	0.00000	275849	1.39437	0.00000	0.53678	0.00000	0.26567	0.00000
294600	0.49114	0.00000	-0.77892	0.00000	0.00000	0.00000	304366	1.28791	0.00000	0.65205	0.00000	0.15197	0.00000
294762	1.25229	0.00000	-0.12501	0.00000	0.16884	0.00000	304405	1.02569	0.00000	-0.13098	0.00000	0.22339	0.00000
258969	0.55561	0.00000	1.73810	0.00000	0.19246	0.00000	281917	1.00740	0.00000	0.31488	0.00000	0.22869	0.00000
275812	1.53514	0.00000	0.68193	0.00000	0.36118	0.00000	294735	1.08049	0.00000	0.51505	0.00000	0.28569	0.00000
300198	1.08571	0.00000	0.14729	0.00000	0.30807	0.00000	281326	1.51705	0.00000	1.62122	0.00000	0.27497	0.00000
300099	1.17471	0.00000	-0.02080	0.00000	0.20268	0.00000	288192	1.14490	0.00000	-0.11241	0.00000	0.21621	0.00000
300105	1.32701	0.00000	0.49122	0.00000	0.22021	0.00000	287570	1.60280	0.00000	0.15982	0.00000	0.27099	0.00000
300193	1.59571	0.00000	0.95785	0.00000	0.25943	0.00000	275816	0.91447	0.00000	-0.40726	0.00000	0.28789	0.00000
300121	1.24406	0.00000	0.38140	0.00000	0.23247	0.00000	304388	1.00381	0.00000	-0.23953	0.00000	0.23047	0.00000
287273	0.71179	0.00000	-0.25814	0.00000	0.25594	0.00000							
294729	0.49803	0.00000	-0.38429	0.00000	0.00000	0.00000							
261071	1.26082	0.00000	0.25395	0.00000	0.24853	0.00000							
299718	0.77266	0.00000	-0.85006	0.00000	0.00000	0.00000							

**Table I-36. 2015 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)
252684	1.84292	0	0.5448	0	1.01312	0	0.16041	0	-0.32466	0	-0.84887	0	0	0
294738	1.44489	0	0.34076	0	1.68953	0	0.36783	0	-0.47526	0	-1.58211	0	0	0
294741	1.26936	0	1.39038	0	1.53754	0	0.30273	0	-0.40473	0	-1.43553	0	0	0
294742	1.72418	0	0.88537	0	0.94811	0	0.4515	0	-0.4359	0	-0.96371	0	0	0
305241	1.18271	0	0.27278	0	0.94488	0	0.28105	0	-0.15792	0	-1.06801	0	0	0

**Table I-37. 2015 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>
304722	0.68299	0.00000	-0.77925	0.00000	0.33913	0.00000	293915	0.93242	0.00000	0.29679	0.00000	0.19030	0.00000
293925	1.04854	0.00000	0.90070	0.00000	0.31868	0.00000	261116	0.53373	0.00000	-0.46175	0.00000	0.15620	0.00000
301743	0.87101	0.00000	-0.37888	0.00000	0.22030	0.00000	287344	0.76128	0.00000	-0.16820	0.00000	0.30654	0.00000
287388	0.87883	0.00000	0.23201	0.00000	0.13136	0.00000	304758	0.92696	0.00000	1.19930	0.00000	0.36103	0.00000
299243	0.40381	0.00000	-1.81041	0.00000	0.00000	0.00000	287049	0.68814	0.00000	0.39119	0.00000	0.22784	0.00000
304756	0.68452	0.00000	-0.15201	0.00000	0.28907	0.00000	287345	1.01415	0.00000	0.62360	0.00000	0.20505	0.00000
302735	1.08507	0.00000	0.56060	0.00000	0.42577	0.00000	210928	1.34877	0.00000	-0.09211	0.00000	0.22583	0.00000
287336	0.62643	0.00000	0.54515	0.00000	0.25176	0.00000	302734	0.92120	0.00000	-0.67886	0.00000	0.17902	0.00000
304704	0.63982	0.00000	-0.54259	0.00000	0.20829	0.00000	230867	0.34980	0.00000	-0.88725	0.00000	0.25000	0.00000
272670	1.44991	0.00000	0.88190	0.00000	0.32322	0.00000	295861	1.08679	0.00000	0.80370	0.00000	0.36372	0.00000
299246	0.46078	0.00000	0.23996	0.00000	0.16299	0.00000	293942	1.85352	0.00000	1.27718	0.00000	0.35619	0.00000
304745	0.99395	0.00000	-0.54336	0.00000	0.32341	0.00000	286522	1.16162	0.00000	0.41605	0.00000	0.41039	0.00000
299237	1.04190	0.00000	0.25822	0.00000	0.22190	0.00000	301740	1.09486	0.00000	0.76837	0.00000	0.23036	0.00000
299340	1.30378	0.00000	-0.41556	0.00000	0.30107	0.00000	293943	1.25185	0.00000	0.50505	0.00000	0.28128	0.00000
293977	1.17862	0.00000	1.08722	0.00000	0.28408	0.00000	301771	1.05692	0.00000	-0.63545	0.00000	0.21014	0.00000
288360	1.30113	0.00000	0.75529	0.00000	0.25219	0.00000	293960	0.81102	0.00000	-0.46627	0.00000	0.14962	0.00000
287348	1.31624	0.00000	0.23129	0.00000	0.16527	0.00000	301721	1.04574	0.00000	-0.04262	0.00000	0.16295	0.00000
280874	0.71635	0.00000	1.23047	0.00000	0.28159	0.00000	305487	1.02266	0.00000	-0.74794	0.00000	0.24726	0.00000
287337	1.17564	0.00000	0.20536	0.00000	0.28596	0.00000							
305454	1.07631	0.00000	-0.32712	0.00000	0.19680	0.00000							
235317	1.31300	0.00000	0.00861	0.00000	0.21354	0.00000							
304776	0.77288	0.00000	-0.56482	0.00000	0.25930	0.00000							

**Table I-38. 2015 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>
293153	1.47563	0	0.65453	0	1.10076	0	0.38327	0	-0.32898	0	-1.15505	0	0	0
293945	1.50141	0	0.11411	0	1.50261	0	0.46082	0	-0.32983	0	-1.6336	0	0	0
299385	1.41097	0	0.76075	0	1.44889	0	0.29828	0	-0.49142	0	-1.25576	0	0	0
302738	1.07953	0	0.53854	0	1.23632	0	0.29589	0	-0.3126	0	-1.2196	0	0	0
305455	1.18185	0	0.65787	0	2.0693	0	0.82819	0	-0.96837	0	-1.92912	0	0	0

**Table I-39. 2015 MCAS: IRT Parameters for Dichotomous Items –  
High School Technology/Engineering**

<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>
305148	1.00000	0.00000	-0.73780	0.00000	0.00000	0.00000	296438	1.00000	0.00000	-0.23959	0.00000	0.00000	0.00000
206619	1.00000	0.00000	0.09652	0.00000	0.00000	0.00000	287818	1.00000	0.00000	0.30592	0.00000	0.00000	0.00000
287778	1.00000	0.00000	-0.35888	0.00000	0.00000	0.00000	283418	1.00000	0.00000	-0.00572	0.00000	0.00000	0.00000
293173	1.00000	0.00000	-0.00349	0.00000	0.00000	0.00000	283408	1.00000	0.00000	-1.15965	0.00000	0.00000	0.00000
293192	1.00000	0.00000	-0.80451	0.00000	0.00000	0.00000	281390	1.00000	0.00000	-0.40902	0.00000	0.00000	0.00000
274276	1.00000	0.00000	-0.82358	0.00000	0.00000	0.00000	281372	1.00000	0.00000	-0.73279	0.00000	0.00000	0.00000
294348	1.00000	0.00000	-0.30277	0.00000	0.00000	0.00000	300325	1.00000	0.00000	-0.01802	0.00000	0.00000	0.00000
221741	1.00000	0.00000	-0.05305	0.00000	0.00000	0.00000	293183	1.00000	0.00000	-0.62163	0.00000	0.00000	0.00000
208413	1.00000	0.00000	-0.47244	0.00000	0.00000	0.00000	252773	1.00000	0.00000	-0.05338	0.00000	0.00000	0.00000
305177	1.00000	0.00000	-0.19624	0.00000	0.00000	0.00000	306823	1.00000	0.00000	-0.19354	0.00000	0.00000	0.00000
265201	1.00000	0.00000	0.07104	0.00000	0.00000	0.00000	305140	1.00000	0.00000	-0.20851	0.00000	0.00000	0.00000
294347	1.00000	0.00000	-0.45194	0.00000	0.00000	0.00000	287779	1.00000	0.00000	0.09531	0.00000	0.00000	0.00000
300328	1.00000	0.00000	-0.04611	0.00000	0.00000	0.00000	268474	1.00000	0.00000	0.08577	0.00000	0.00000	0.00000
293181	1.00000	0.00000	-0.70901	0.00000	0.00000	0.00000	296435	1.00000	0.00000	-0.31747	0.00000	0.00000	0.00000
299347	1.00000	0.00000	-0.01409	0.00000	0.00000	0.00000	296397	1.00000	0.00000	0.15262	0.00000	0.00000	0.00000
281444	1.00000	0.00000	-0.45345	0.00000	0.00000	0.00000	290766	1.00000	0.00000	0.34489	0.00000	0.00000	0.00000
206768	1.00000	0.00000	-0.50264	0.00000	0.00000	0.00000	294383	1.00000	0.00000	-0.28965	0.00000	0.00000	0.00000
299288	1.00000	0.00000	-0.28309	0.00000	0.00000	0.00000	267217	1.00000	0.00000	-0.47202	0.00000	0.00000	0.00000
305094	1.00000	0.00000	0.06143	0.00000	0.00000	0.00000							
305171	1.00000	0.00000	-0.19783	0.00000	0.00000	0.00000							
296459	1.00000	0.00000	-0.19245	0.00000	0.00000	0.00000							
305115	1.00000	0.00000	-0.65338	0.00000	0.00000	0.00000							

**Table I-40. 2015 MCAS: IRT Parameters for Polytomous Items –  
High School Technology/Engineering**

<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>
206636	1	0	0.52682	0	1.60972	0	0.6366	0	-0.52608	0	-1.72024	0	0	0
246713	1	0	0.6552	0	1.27286	0	0.44593	0	-0.56224	0	-1.15656	0	0	0
296471	1	0	0.6587	0	1.528	0	0.51572	0	-0.46619	0	-1.57753	0	0	0
300258	1	0	0.55873	0	1.96424	0	1.15618	0	-0.83401	0	-2.28641	0	0	0
305127	1	0	0.48884	0	0.89994	0	0.40194	0	0.04813	0	-1.35001	0	0	0