

Appendix H

ITEM RESPONSE THEORY PARAMETERS

Table H-1. 2011 MCAS: IRT Parameters for Dichotomous 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>c</i>	<i>SE (c)</i>
286322	1.00817	0.01929	-1.95711	0.03755	0.44466	0.01397
286324	0.94927	0.01715	-1.77074	0.03565	0.40895	0.01334
286326	0.92909	0.01125	-0.70244	0.01413	0.09380	0.00622
286329	0.75406	0.01302	-1.66657	0.03968	0.29443	0.01444
286327	0.61752	0.02002	-4.26029	0.28457	0	0.18261
286332	0.70743	0.01222	-1.56116	0.04019	0.26385	0.01434
286336	0.70230	0.01138	-1.12978	0.03155	0.20358	0.01153
286337	0.89662	0.01199	-1.58549	0.02313	0.13979	0.01036
286342	0.68228	0.01330	-1.05915	0.04035	0.33619	0.01252
286340	1.18621	0.01884	-1.91468	0.02425	0.27818	0.01195
284979	0.73167	0.01277	-1.29840	0.03649	0.29432	0.01273
284981	0.53321	0.01126	-0.79785	0.04615	0.20276	0.01365
284985	0.89299	0.01336	-1.03119	0.02320	0.24801	0.00953
284987	1.06254	0.01884	-1.56205	0.02978	0.42953	0.01156
284988	1.05027	0.01662	-1.60186	0.02613	0.32326	0.01148
284131	1.50639	0.02720	-2.04747	0.02144	0.30223	0.01171
284127	1.07353	0.01580	-1.61940	0.02316	0.25686	0.01094
284133	1.13919	0.01481	-0.93103	0.01507	0.19666	0.00736
284135	1.09974	0.01413	-1.46071	0.01776	0.15569	0.00886
284136	0.74906	0.01163	-0.09276	0.01660	0.11853	0.00638
284144	0.86224	0.01254	-0.36219	0.01648	0.16292	0.00674
284143	0.84505	0.01640	-0.17452	0.02229	0.34442	0.00747
285012	0.64597	0.01263	-2.76937	0.07345	0.11626	0.03069
285015	0.79655	0.01430	-2.29052	0.04681	0.26874	0.01848
285018	1.14359	0.02048	-0.33928	0.01776	0.43030	0.00645
285020	0.72769	0.01166	-1.65342	0.03635	0.20674	0.01395
285021	0.84244	0.01422	-1.32971	0.03189	0.33368	0.01179
285024	0.98995	0.01406	-0.86645	0.01871	0.23478	0.00818
285026	0.66476	0.01268	-1.05076	0.03969	0.30061	0.01261
285027	0.76071	0.01268	-0.86402	0.02800	0.25561	0.01015
285030	0.94737	0.01619	-2.06685	0.03514	0.31269	0.01472
285029	1.03425	0.01656	-1.14709	0.02370	0.35428	0.00968
268888	0.93372	0.01280	-0.39272	0.01464	0.15470	0.00629
272194	1.09877	0.01749	-0.11780	0.01386	0.28867	0.00574

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
268889	0.72052	0.01200	-0.91783	0.02962	0.22991	0.01064
268892	0.76442	0.01220	-1.23716	0.03057	0.23977	0.01156
257014	1.22210	0	-1.18792	0	0.23239	0
257015	0.85667	0	-1.24410	0	0.15114	0
257016	1.81396	0	-1.06345	0	0.26153	0
257022	1.13444	0	-0.78296	0	0.23697	0
257021	0.49422	0	-0.30505	0	0.30048	0
257028	1.07625	0	-1.11857	0	0.14738	0
257031	0.88416	0	-0.87437	0	0.22010	0
257033	0.59295	0	-1.33210	0	0.16849	0
257036	0.87880	0	-1.67501	0	0.18168	0
257034	0.63565	0	-0.81592	0	0.20567	0
231813	0.87018	0	-1.13821	0	0.41926	0
231816	0.94508	0	-1.60356	0	0.26312	0
231821	0.64531	0	-0.28786	0	0.30735	0
231828	0.78239	0	0.87359	0	0.33908	0
231823	0.99025	0	-0.99732	0	0.19278	0
276729	0.60730	0	-2.50475	0	0.31977	0
276731	1.13021	0	-1.24801	0	0.15032	0
276738	1.39538	0	-0.44925	0	0.18243	0
276748	0.78526	0	-1.65460	0	0.24071	0
276752	0.89278	0	-0.73249	0	0.21908	0
220171	0.65706	0	-1.76027	0	0.23002	0
220175	0.87883	0	-0.88946	0	0.28808	0
220181	0.69864	0	-0.89120	0	0.26891	0
220185	0.91015	0	-1.23495	0	0.15767	0
220194	0.87681	0	-0.93241	0	0.11618	0
220196	0.55024	0	-1.21849	0	0.13057	0
220199	0.69726	0	-1.46574	0	0.13689	0
220197	1.05680	0	-0.49889	0	0.14497	0
220220	0.71944	0	-1.19578	0	0.14804	0
220200	0.97876	0	-0.97491	0	0.21625	0

Table H-2. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 3

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
287398	0.76049	0.00437	-0.88597	0.00649	0	0	0.69983	0.00863	-0.69983	0.00673	0	0				
286605	0.68914	0.00357	-1.15535	0.00683	0	0	1.60225	0.01331	-1.60225	0.00745	0	0				
285032	0.61699	0.00318	-1.09655	0.00743	0	0	1.40523	0.01248	-1.40523	0.00808	0	0				
287412	0.52886	0.00251	-1.07883	0.00944	0	0	2.43317	0.01773	-2.43317	0.01046	0	0				
286345	0.68662	0.00260	-0.70826	0.00613	0	0	3.24026	0.02103	0.79655	0.00887	-1.22852	0.00744	-2.80829	0.01117	0	0
257044	0.60770	0	0.26820	0	0	0	3.20117	0	0.87148	0	-1.16931	0	-2.90335	0	0	0
220255	0.60767	0	-0.00656	0	0	0	3.91208	0	1.23355	0	-1.40321	0	-3.74242	0	0	0

Table H-3. 2011 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 4

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
286461	0.51536	0.01326	-0.88898	0.07826	0.26025	0.02285
286464	0.76647	0.01441	-1.69193	0.05415	0.22400	0.02506
286465	0.65199	0.01100	-1.20228	0.04298	0.07877	0.01859
286469	0.90086	0.01569	-1.15845	0.03406	0.29999	0.01485
286470	0.73141	0.00913	-2.41795	0.02283	0	0
286463	0.83766	0.01317	-1.18329	0.03178	0.16845	0.01507
285387	0.42613	0.00564	-1.85166	0.02472	0	0
285389	0.57027	0.00625	-1.48223	0.01611	0	0
285393	0.38678	0.01130	-1.14184	0.12281	0.03976	0.03660
285394	0.45035	0.01132	-0.00693	0.05401	0.08912	0.01610
285395	1.00706	0.01687	-1.86170	0.03717	0.17332	0.02213
285398	0.48595	0.00563	-1.28876	0.01662	0	0
285400	0.53696	0.01147	-1.52584	0.07851	0.09476	0.03060
285402	0.89747	0.01269	-1.92139	0.03192	0	0.01909
285405	0.73094	0.01226	-0.57421	0.02958	0.17432	0.01180
285406	0.61829	0.00644	-1.35188	0.01409	0	0
277169	0.76593	0.00753	-1.41127	0.01233	0	0
277170	0.63007	0.01253	-0.40549	0.03844	0.20784	0.01320
277163	0.41074	0.01135	-0.28753	0.07553	0.07652	0.02147
277165	0.69395	0.01339	-1.04875	0.04656	0.25160	0.01761
277177	0.78541	0.01220	-1.83475	0.04183	0.03493	0.02325

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
285446	0.48367	0.00633	-2.18966	0.02658	0	0
285449	0.71237	0.01279	-1.28093	0.04567	0.18639	0.01946
285450	0.76207	0.01287	-1.40828	0.04178	0.15775	0.01951
285453	1.00854	0.01436	-0.90622	0.02086	0.18331	0.01047
285456	0.92819	0.01384	-0.33605	0.01850	0.20106	0.00810
285457	0.83576	0.01507	-1.37790	0.04178	0.27357	0.01846
285461	0.89724	0.01621	-1.31864	0.03829	0.31507	0.01676
285467	0.61021	0.01240	-1.17728	0.05809	0.19178	0.02167
285463	0.89223	0.01066	-2.26115	0.01831	0	0
285460	0.57320	0.01205	-0.87257	0.05545	0.17997	0.01922
266225	0.82289	0.01289	-1.38804	0.03475	0.13249	0.01731
266112	0.96745	0.01600	-1.21053	0.03028	0.27394	0.01434
266138	0.84756	0.01321	-0.35395	0.02136	0.19488	0.00894
266142	0.65483	0.01435	0.53699	0.02502	0.23060	0.00806
266146	0.90513	0.01342	-0.16163	0.01709	0.17836	0.00735
266084	0.67531	0.05836	-2.65862	0.42671	0.10242	0.24168
266088	0.73482	0	-0.63436	0	0.24710	0
266087	0.77131	0	-0.46915	0	0.18053	0
266090	0.60299	0	-0.48703	0	0.24026	0
266096	0.79199	0	-0.56617	0	0.14652	0
232874	0.80267	0	-0.11115	0	0.24165	0
232875	1.18722	0	-0.38403	0	0.23367	0
232876	1.08401	0	-0.96911	0	0.23899	0
232883	1.16843	0	-1.02959	0	0.19501	0
232887	0.79942	0	-1.01121	0	0.14698	0
256081	0.81678	0	-1.16482	0	0.11878	0
256084	1.08970	0	-1.19896	0	0.17033	0
256807	0.87809	0	-0.93422	0	0.14451	0
256149	0.65019	0	-0.77458	0	0.10225	0
256164	0.73374	0	-0.45612	0	0.20733	0
256150	0.84606	0	-1.14670	0	0.18175	0
256173	0.60597	0	-1.02946	0	0.13832	0
256184	0.86695	0	-0.29528	0	0.15343	0
256199	0.83715	0	-1.18351	0	0.24238	0
256192	0.40310	0	-2.38706	0	0.15540	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
227630	1.08972	0	-1.09429	0	0.26197	0
227631	0.98354	0	-1.15385	0	0.15505	0
227635	0.94769	0	-1.34058	0	0.13184	0
227641	1.04551	0	-1.31594	0	0.23955	0
227657	1.38435	0	-1.46602	0	0.22794	0
227651	0.65131	0	-1.92922	0	0.14406	0
227653	1.24527	0	-1.16384	0	0.27759	0
241003	1.07997	0	0.90818	0	0.35195	0
227654	1.22713	0	-1.49811	0	0.16765	0
227656	0.84139	0	-0.85878	0	0.22156	0

Table H-4. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 4

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
286474	0.83565	0.00319	-0.62235	0.00511	0	0	2.84616	0.02030	0.83828	0.00820	-0.94107	0.00622	-2.74336	0.00954	0	0
285409	1.00102	0.00391	0.68254	0.00439	0	0	2.57818	0.00909	0.60174	0.00542	-0.90351	0.00708	-2.27641	0.01453	0	0
277181	0.74778	0.00280	0.54554	0.00562	0	0	2.66152	0.01082	0.97741	0.00700	-0.85024	0.00791	-2.78869	0.01714	0	0
285469	0.68406	0.00257	0.24743	0.00619	0	0	3.45304	0.01716	0.85416	0.00769	-1.07069	0.00825	-3.23651	0.01813	0	0
232889	0.85463	0	0.66279	0	0	0	2.96723	0	0.74820	0	-1.02213	0	-2.69329	0	0	0
256212	0.94950	0	0.33597	0	0	0	2.99132	0	0.75315	0	-0.96118	0	-2.78329	0	0	0
227660	0.96208	0	-0.14423	0	0	0	2.46477	0	0.86984	0	-1.01560	0	-2.31901	0	0	0

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
261561C	0.93536	0.00382	-1.72157	0.00458	0	0	3.23502	0.06031	2.46391	0.03440	-0.11245	0.00823	-0.68844	0.00676	-2.15889	0.00571
261561T	0.87529	0.00305	0.72874	0.00473	0	0	4.55656	0.02598	4.04917	0.01910	2.49704	0.00894	2.00457	0.00753	0.39033	0.00597

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)
261561C (continued)	-2.73915	0.00625	0	0								
261561T (continued)	-0.08747	0.00626	-1.65120	0.01051	-2.54908	0.01722	-4.07180	0.04791	-5.13811	0.10427	0	0

Table H-5. 2011 MCAS: IRT Parameters for Dichotomous 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>c</i>	<i>SE (c)</i>
286797	0.98347	0.01184	-0.86569	0.01533	0.09705	0.00704
286796	0.49868	0.01260	-1.30733	0.08361	0.29686	0.02227
286799	0.56305	0.01306	-1.81671	0.08401	0.31045	0.02547
286801	0.49315	0.00654	-2.92460	0.03342	0	0
286804	0.99566	0.01466	-0.09998	0.01462	0.22686	0.00614
286806	0.84786	0.01447	-2.16569	0.04478	0.19741	0.02090
283312	0.84734	0.01470	-1.37323	0.03563	0.32630	0.01350
283314	0.91490	0.01304	-1.09389	0.02301	0.19715	0.01007
283323	0.86272	0.01566	-2.30041	0.04994	0.23573	0.02326
283325	1.06492	0.01489	-0.30351	0.01440	0.22874	0.00638
283327	0.71983	0.01294	-1.61854	0.04661	0.25822	0.01749
283334	1.24861	0.01731	-1.10788	0.01673	0.23800	0.00848
283358	0.90384	0.01290	-0.24623	0.01611	0.18069	0.00670
283365	0.80615	0.01285	-0.24891	0.02037	0.21278	0.00775
283363	0.31752	0.00484	-2.06870	0.03270	0	0
283370	1.00769	0.01858	0.55640	0.01315	0.28438	0.00491
284552	0.50979	0.00578	-1.84651	0.02006	0	0
284551	0.87104	0.01275	-1.43419	0.02794	0.17416	0.01235
284554	0.66509	0.01139	-0.77516	0.03298	0.19030	0.01166
284560	0.50293	0.01150	0.08778	0.03744	0.14906	0.01114
284561	0.81999	0.01505	-1.33659	0.03892	0.36556	0.01372
276368	0.47127	0.01136	-1.27124	0.08036	0.19608	0.02294
276373	0.93571	0.01238	-0.62913	0.01685	0.15465	0.00742
276376	1.11399	0.01787	-0.57867	0.01897	0.37279	0.00764
276378	0.80791	0.01303	-0.31401	0.02143	0.22948	0.00807
276380	1.00878	0.01446	-0.92591	0.02020	0.24334	0.00896
276381	0.59449	0.01222	-0.40918	0.03828	0.23829	0.01174
276383	1.28143	0.01893	-0.97343	0.01717	0.31268	0.00827
276386	0.53984	0.01433	0.35831	0.03729	0.27341	0.01017
276387	0.43661	0.01461	-0.48576	0.09115	0.36929	0.01871
276388	0.69575	0.01285	-0.40851	0.02994	0.26105	0.00998
258978	0.57366	0.00620	-1.85905	0.01843	0	0
258992	0.87948	0.01332	-0.50271	0.02033	0.23298	0.00814
258982	0.98748	0.01700	-1.42364	0.03114	0.36353	0.01248

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
258987	1.18676	0.01807	-0.81850	0.01832	0.34021	0.00812
258989	1.20667	0.01643	-0.51360	0.01381	0.24996	0.00657
208719	0.86633	0	0.15132	0	0.22818	0
208721	0.74007	0	-0.58718	0	0.16036	0
208724	1.18526	0.07124	-1.33538	0.08450	0.29655	0.04014
208722	1.17216	0	-1.33717	0	0.17049	0
208726	1.18646	0	-0.43920	0	0.25626	0
208735	0.83062	0	-0.77856	0	0.12243	0
208738	0.65332	0	-0.98211	0	0.09836	0
208741	0.70364	0	-1.29193	0	0.16072	0
208743	0.79671	0	-1.25557	0	0.18962	0
208744	0.84377	0	-1.02239	0	0.30831	0
266157	0.78792	0	-0.86163	0	0.16058	0
266158	1.03766	0	-1.01917	0	0.21506	0
266159	0.76733	0	-1.21174	0	0.20151	0
266166	0.55473	0	-0.22489	0	0.20964	0
266171	0.98122	0	-0.26668	0	0.17131	0
224840	0.90564	0	-0.90739	0	0.23593	0
224843	1.10029	0	-0.59550	0	0.18355	0
224846	0.53199	0	-1.22183	0	0.15862	0
224858	0.71757	0	-1.13686	0	0.19774	0
224854	0.95385	0	-0.61257	0	0.18340	0
205133	0.88458	0.06142	-0.25267	0.08719	0.34071	0.03075
205136	0.89896	0	-0.66827	0	0.31861	0
205139	1.18964	0	-0.93306	0	0.41232	0
205143	0.68101	0	-1.03699	0	0.19095	0
205145	0.95107	0	-1.71690	0	0.26284	0
205146	0.95571	0	0.47523	0	0.37981	0
205147	0.58534	0	-0.94755	0	0.13443	0
205148	0.46087	0	-0.74773	0	0.13936	0
250901	0.83548	0	-1.23987	0	0.22694	0
205134	0.68939	0	-0.00328	0	0.17344	0

Table H-6. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 5

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
286810	0.58332	0.00216	-0.80504	0.00721	0	0	3.72035	0.02730	1.20486	0.01138	-1.33287	0.00840	-3.59233	0.01391	0	0
283382	0.72570	0.00270	0.43743	0.00590	0	0	3.08707	0.01318	1.08375	0.00737	-1.09027	0.00837	-3.08055	0.01962	0	0
284586	0.85401	0.00322	-0.11833	0.00498	0	0	2.71504	0.01397	0.73602	0.00686	-1.04358	0.00646	-2.40748	0.01047	0	0
276393	0.78802	0.00294	0.39580	0.00531	0	0	2.51088	0.01059	0.76228	0.00665	-0.84072	0.00732	-2.43244	0.01386	0	0
208765	0.87102	0	-0.78272	0	0	0	2.07166	0	0.78149	0	-0.68388	0	-2.16926	0	0	0
224867	0.70676	0	0.12119	0	0	0	3.16364	0	0.95152	0	-1.09699	0	-3.01818	0	0	0
205153	0.78245	0	0.00736	0	0	0	2.86886	0	1.02794	0	-1.09994	0	-2.79686	0	0	0

Table H-7. 2011 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 6

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
286528	0.89608	0.01537	-1.89421	0.04581	0.16373	0.02583
286530	0.69244	0.01186	-0.38271	0.03018	0.16638	0.01135
286531	0.96639	0.01796	-2.12823	0.05096	0.19521	0.03090
286536	0.55526	0.00658	-2.00821	0.02242	0	0
286535	0.30739	0.00639	-3.98663	0.08096	0	0
286526	0.64726	0.01195	-1.28305	0.05326	0.15432	0.02175
286370	0.59467	0.00605	-1.13731	0.01359	0	0
286390	1.13561	0.01771	-1.32815	0.02556	0.24541	0.01377
286391	0.37795	0.00490	-0.81769	0.01718	0	0
286393	0.80996	0.01195	-0.42277	0.02225	0.14452	0.00937
286395	0.74468	0.01270	-1.26924	0.04265	0.18001	0.01870
286399	0.79778	0.01368	-1.31063	0.04127	0.22070	0.01836
286401	0.79515	0.01178	-0.63945	0.02515	0.13593	0.01082
286402	0.64185	0.01180	-0.52532	0.03773	0.17195	0.01365
286403	0.49755	0.00534	-0.58136	0.01211	0	0
286404	1.06921	0.01705	-1.45309	0.02936	0.23248	0.01583
270566	1.17599	0.01614	-0.81688	0.01733	0.20909	0.00902
270570	0.50159	0.01105	-1.01626	0.07116	0.09883	0.02440
270574	0.95100	0.01356	-0.38977	0.01849	0.19231	0.00821
270577	0.67243	0.00684	-1.48686	0.01475	0	0
294315	1.13625	0.01561	-1.03084	0.01931	0.17753	0.01039

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
285747	0.81080	0.01329	-1.65733	0.04352	0.13308	0.02248
285749	0.79990	0.01344	-0.42361	0.02708	0.24324	0.01042
285751	0.80135	0.01569	-0.90081	0.04121	0.37726	0.01435
285753	0.67698	0.01333	-1.92084	0.07302	0.16401	0.03416
285757	0.82155	0.01305	-0.13560	0.02114	0.19975	0.00836
285759	0.72318	0.01261	-0.35463	0.02962	0.20906	0.01098
285760	1.01472	0.01482	-0.71766	0.02100	0.23227	0.00978
285762	1.17672	0.01701	-0.18220	0.01437	0.27335	0.00653
285765	1.05413	0.01459	-0.56121	0.01760	0.20499	0.00837
285764	0.90908	0.01338	-1.78272	0.03414	0.05520	0.02008
277409	0.72768	0.01537	-0.29357	0.03683	0.37218	0.01121
277411	1.10578	0.01553	0.36316	0.01081	0.18168	0.00474
277425	0.55938	0.01314	-0.08020	0.04581	0.24102	0.01353
277435	1.24568	0.01684	-0.00771	0.01146	0.22276	0.00545
277441	0.81090	0.01291	-1.41446	0.03812	0.14609	0.01861
207439	0.83486	0	-1.02014	0	0.09298	0
207442	0.66959	0	-1.80391	0	0.33125	0
207448	1.34847	0	-0.90357	0	0.15239	0
207450	1.17473	0	-1.57384	0	0.12822	0
207473	0.80907	0	-1.20441	0	0.15726	0
207464	1.18710	0	-1.40969	0	0.15024	0
207479	1.30369	0	-0.75305	0	0.11716	0
207484	0.75032	0	-1.46687	0	0.11443	0
207497	0.65912	0	-0.95510	0	0.20391	0
213331	0.57821	0	-1.06266	0	0.37696	0
257352	0.75603	0	-0.59164	0	0.17757	0
257357	0.72489	0	-0.24406	0	0.25289	0
257359	1.17744	0	-0.42860	0	0.24281	0
257363	0.53278	0	-0.72115	0	0.14247	0
257375	0.98285	0	-1.54226	0	0.22062	0
203337	0.56930	0	-0.71551	0	0.19860	0
203340	0.84515	0	-1.40844	0	0.17769	0
203343	0.70381	0	-0.27646	0	0.10508	0
203344	0.59208	0	0.02017	0	0.37662	0
203348	0.49350	0	-1.14136	0	0.13548	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
271371	1.20801	0	-0.55703	0	0.23011	0
271375	0.76811	0	-0.56402	0	0.23369	0
271384	0.88086	0	-0.08976	0	0.31543	0
271383	1.30031	0	-0.44634	0	0.24104	0
271387	0.90309	0	-0.21694	0	0.11602	0
271390	1.23365	0	-0.31676	0	0.20128	0
271396	1.29911	0	-0.50063	0	0.15231	0
271402	1.03807	0	-1.21059	0	0.17687	0
271401	1.24980	0	-0.96075	0	0.26648	0
271410	1.19719	0	-0.51192	0	0.22397	0

Table H-8. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 6

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
286541	0.84055	0.00323	-0.75805	0.00512	0	0	2.67743	0.02067	0.95897	0.00927	-0.81538	0.00620	-2.82101	0.00881	0	0
286409	0.87155	0.00330	-0.32322	0.00485	0	0	2.41636	0.01436	0.90555	0.00773	-0.86931	0.00600	-2.45260	0.00891	0	0
270600	0.95840	0.00364	0.07846	0.00443	0	0	2.06124	0.00992	0.89369	0.00650	-0.78125	0.00575	-2.17368	0.00913	0	0
285772	0.80498	0.00303	-0.40499	0.00523	0	0	2.77439	0.01788	0.84923	0.00813	-0.95591	0.00638	-2.66772	0.00970	0	0
207508	1.07245	0	0.08203	0	0	0	2.20091	0	0.86095	0	-0.91312	0	-2.14874	0	0	0
203352	0.73918	0	-1.31049	0	0	0	2.98499	0	0.80793	0	-1.03548	0	-2.75744	0	0	0
271412	0.88052	0.01366	-0.24769	0.01957	0	0	2.43379	0.05784	0.73977	0.02918	-0.87179	0.02449	-2.30178	0.03564	0	0

Table H-9. 2011 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 7

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
286496	0.65607	0.01555	-1.10519	0.06895	0.36540	0.02242
286495	0.78874	0.01643	-0.23683	0.03312	0.37176	0.01093
286501	0.51983	0.00885	-3.23851	0.04886	0	0
286511	1.06565	0.01798	-1.74684	0.03663	0.19464	0.02294
286507	0.51309	0.00649	-1.89265	0.02370	0	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
286503	1.04306	0.01618	-1.16746	0.02727	0.22535	0.01468
285654	0.98111	0.01502	-1.14144	0.02809	0.19651	0.01487
285655	0.91272	0.01643	-0.21753	0.02419	0.33384	0.00924
285656	1.39659	0.02028	-0.90794	0.01660	0.25639	0.00982
285657	0.72938	0.01355	-0.49930	0.03478	0.23286	0.01332
285658	1.39686	0.01966	-0.72696	0.01492	0.25350	0.00860
285662	0.98551	0.01386	-0.58488	0.01947	0.16880	0.00964
285663	1.16795	0.01598	-0.50160	0.01557	0.20810	0.00814
285665	0.94258	0.01400	-0.10990	0.01703	0.18475	0.00764
285671	0.51137	0.00562	-0.52276	0.01151	0	0
285664	1.15486	0.01674	-0.61530	0.01799	0.25052	0.00919
285893	0.92703	0.01420	-0.62133	0.02357	0.21171	0.01095
285896	0.54750	0.00657	-1.73754	0.02073	0	0
285900	0.91058	0.01377	-0.81292	0.02565	0.18422	0.01241
285901	0.51123	0.00577	-0.97050	0.01446	0	0
285902	0.54520	0.01130	-0.88725	0.05928	0.09048	0.02210
279177	0.93168	0.01427	-0.51554	0.02231	0.21586	0.01020
279183	1.26340	0.02177	-1.40442	0.02771	0.31088	0.01603
279185	0.81680	0.01471	0.13545	0.02141	0.23929	0.00821
279189	1.19477	0.01697	-0.50563	0.01614	0.24716	0.00829
279193	0.46803	0.00577	-1.35803	0.01918	0	0
279180	0.53417	0.00601	-1.18887	0.01567	0	0
279195	0.67803	0.01412	0.17989	0.02898	0.22716	0.01002
279182	0.86918	0.01492	-1.38071	0.04066	0.22252	0.02032
279184	1.00900	0.01682	-1.19640	0.03152	0.27847	0.01587
279197	0.95423	0.01397	-0.50125	0.02035	0.18909	0.00963
285710	0.73767	0.01667	-0.01224	0.03404	0.37364	0.01045
285713	0.75600	0.01291	-0.59223	0.03164	0.18739	0.01314
285718	0.41273	0.00534	-1.00233	0.01774	0	0
285721	0.84909	0.01624	-1.45389	0.04952	0.30498	0.02254
285720	0.71194	0.01529	0.18116	0.02916	0.28593	0.00970
223850	0.55753	0	-0.67963	0	0.12591	0
223854	0.75779	0	-0.88112	0	0.22380	0
223890	0.57501	0	-0.08221	0	0.14269	0
223894	1.07172	0	-1.16903	0	0.25690	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
223914	0.69724	0	-0.66565	0	0.15513	0
223921	0.50338	0	0.33772	0	0.16339	0
223917	1.04342	0	-0.35828	0	0.18329	0
223927	0.77895	0	-1.05512	0	0.19683	0
223900	0.78305	0	-0.39052	0	0.15101	0
223932	1.11305	0	-0.16428	0	0.23819	0
225044	1.11974	0	-1.61781	0	0.26087	0
225002	1.07173	0	0.04103	0	0.15817	0
224998	0.94347	0	-0.86039	0	0.26277	0
224999	0.74728	0	0.04747	0	0.20475	0
225000	1.30771	0	-0.47471	0	0.19457	0
225050	0.38281	0	-1.35465	0	0	0
225004	0.70002	0	-0.76349	0	0.12269	0
225008	0.44093	0	-0.35297	0	0.30768	0
225051	0.77141	0	-0.50102	0	0.12944	0
273055	0.90670	0	-0.91557	0	0.14291	0
225593	0.31579	0	-1.56800	0	0	0
225550	0.47573	0	-1.66767	0	0.13016	0
225547	0.68921	0	-0.89020	0	0.22138	0
225545	0.62301	0	-1.12833	0	0.21380	0
225596	0.69498	0	-0.87017	0	0.13627	0
233976	0.82249	0	-1.30614	0	0.16634	0
233993	0.75025	0	-0.84310	0	0.20752	0
234003	0.52201	0	-1.13462	0	0.16068	0
233999	1.24574	0	-0.08936	0	0.14128	0
233987	0.76950	0	-0.38154	0	0.31926	0

Table H-10. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 7

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
286515	0.87440	0.00336	-0.88049	0.00490	0	0	2.40366	0.02008	0.90530	0.00933	-0.67755	0.00602	-2.63141	0.00776	0	0
285675	1.19811	0.00461	-0.03815	0.00360	0	0	2.01919	0.00993	0.72115	0.00551	-0.60881	0.00466	-2.13153	0.00812	0	0
285903	1.03119	0.00397	-0.08663	0.00423	0	0	2.74569	0.01589	0.79567	0.00627	-0.93049	0.00540	-2.61086	0.01083	0	0

continued

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
279198	1.00658	0.00380	-0.21208	0.00417	0	0	2.03872	0.01132	0.72537	0.00640	-0.65007	0.00524	-2.11402	0.00774	0	0
223937	0.87453	0	0.08875	0	0	0	2.74128	0	0.81748	0	-0.94291	0	-2.61586	0	0	0
225055	1.19908	0	-0.05781	0	0	0	1.92072	0	0.67231	0	-0.69521	0	-1.89781	0	0	0
234009	1.26107	0	-0.24190	0	0	0	1.89436	0	0.64244	0	-0.61102	0	-1.92579	0	0	0

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
281249C	1.01311	0.00424	-2.02963	0.00428	0	0	2.74784	0.06401	2.14857	0.04033	0.30287	0.01181	-0.40640	0.00829	-1.97432	0.00528
281249T	0.93802	0.00324	0.25840	0.00434	0	0	4.74551	0.04701	4.28707	0.03395	2.75353	0.01295	2.12727	0.00948	0.47995	0.00569

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)
281249C (continued)	-2.81857	0.00542	0	0								
281249T (continued)	-0.25474	0.00552	-1.56190	0.00763	-2.50984	0.01254	-4.73289	0.06309	-5.33396	0.10143	0	0

Table H-11. 2011 MCAS: IRT Parameters for Dichotomous Items – ELA Grade 8

Item Number	Parameters and Measures of Standard Error						
	a	SE (a)	b	SE (b)	c	SE (c)	
276139	0.96513	0.01353	-0.78689	0.02107	0.14451	0.01060	
276142	0.76447	0.00877	-2.02985	0.01856	0	0	
276148	0.79909	0.01426	-0.52855	0.03054	0.26063	0.01195	
276162	0.51729	0.00579	-1.10328	0.01496	0	0	
276154	0.91671	0.01441	-1.42647	0.03424	0.14677	0.01883	
276171	0.68622	0.01370	-0.32418	0.03576	0.24462	0.01257	
283138	0.64091	0.01143	-1.31171	0.05189	0.05793	0.02361	
283142	1.12615	0.01532	-0.03053	0.01225	0.18477	0.00587	
283149	0.48335	0.01202	-0.65333	0.07180	0.10936	0.02324	
283152	0.68637	0.01218	-1.64167	0.05677	0.05907	0.02887	
283158	0.88177	0.01596	-1.53264	0.04532	0.24716	0.02269	
283154	0.84239	0.01050	-2.30522	0.02078	0	0	
283157	0.79332	0.01532	0.25244	0.02203	0.27030	0.00785	
288162	0.89325	0.01457	-0.95108	0.03021	0.22910	0.01395	

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
283164	0.84425	0.01323	0.23228	0.01587	0.14935	0.00656
283161	0.57689	0.01238	-0.69477	0.05385	0.16300	0.01898
271489	0.50534	0.00592	-1.41091	0.01796	0	0
271490	0.46314	0.00578	-1.54815	0.02077	0	0
271494	0.76821	0.01256	-0.81360	0.03206	0.15260	0.01410
272833	0.48144	0.00599	-1.68844	0.02165	0	0
283679	0.49924	0.00669	-2.24332	0.02822	0	0
283673	0.54861	0.01155	-0.97445	0.06194	0.08924	0.02332
283675	0.57327	0.00725	-2.19070	0.02487	0	0
283677	0.65883	0.01417	-1.57138	0.07401	0.22640	0.03079
283680	0.76889	0.01278	-1.19619	0.03916	0.13791	0.01857
287562	0.66568	0.01195	-0.99987	0.04433	0.12042	0.01874
283678	0.71037	0.01351	-1.74970	0.06407	0.13064	0.03223
283684	0.29747	0.00491	-1.24855	0.02644	0	0
283682	0.56373	0.01191	-1.65952	0.08339	0.05223	0.03686
283692	0.47671	0.01144	-0.75805	0.07259	0.06393	0.02449
283691	0.60846	0.00709	-1.89169	0.02014	0	0
280125	0.62100	0.01194	-1.36722	0.06051	0.09122	0.02650
280124	0.92843	0.01314	-0.67363	0.02094	0.14222	0.01015
280119	0.31931	0.01285	-0.55239	0.16419	0	0.04168
280123	0.57076	0.01176	-1.41331	0.07176	0.07280	0.03017
280128	0.61800	0.01070	-1.12712	0.04663	0.02594	0.02046
207099	0.85192	0	-1.44295	0	0.13998	0
207101	0.72469	0	-1.46830	0	0.18695	0
207104	0.56393	0	-0.38565	0	0.31073	0
207118	0.90198	0	-0.37891	0	0.24145	0
207096	1.18150	0	-0.58270	0	0.17263	0
207159	1.18871	0	-1.32367	0	0.15341	0
207176	1.29401	0	-1.00929	0	0.17294	0
207180	0.75472	0	0.04060	0	0.21617	0
207185	1.07167	0	0.14337	0	0.23742	0
207190	1.06412	0	-0.17570	0	0.28193	0
227758	0.55831	0	-1.18397	0	0.15006	0
227759	0.49521	0	-1.00069	0	0.15573	0
227764	1.26928	0	-1.93288	0	0.22798	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
227769	1.32560	0	-1.37237	0	0.24867	0
227773	0.92453	0	-0.48070	0	0.20813	0
227774	0.41252	0	-2.30890	0	0	0
227777	0.70254	0	-0.66788	0	0.15163	0
227781	0.55149	0	0.20367	0	0.18911	0
227760	0.80883	0	-1.37878	0	0.20163	0
227779	0.67471	0.04687	0.16720	0.09072	0.12738	0.03379
207589	0.78037	0	-1.03322	0	0.23301	0
207595	1.44389	0	-0.92447	0	0.33539	0
207598	0.66765	0	-1.55969	0	0.16859	0
207599	0.92649	0	-0.98732	0	0.21244	0
207600	0.91634	0	-0.75410	0	0.13964	0
207601	1.24554	0	-0.08446	0	0.26640	0
207618	0.49706	0	-0.86956	0	0.13111	0
207624	0.76506	0	-1.17550	0	0.13360	0
207592	0.95589	0	-0.52278	0	0.19401	0
207609	0.88671	0	0.79992	0	0.39706	0

Table H-12. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 8

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
276175	0.94423	0.00389	-1.40271	0.00464	0	0	2.50109	0.03006	0.95601	0.01174	-0.85699	0.00604	-2.60012	0.00631	0	0
285914	1.19279	0.00467	-0.39821	0.00360	0	0	1.93688	0.01126	0.63568	0.00603	-0.64899	0.00465	-1.92357	0.00613	0	0
271501	1.08526	0.00423	-0.55908	0.00397	0	0	2.15049	0.01419	0.76943	0.00705	-0.71394	0.00500	-2.20598	0.00677	0	0
283698	1.00456	0.00395	-0.77392	0.00424	0	0	2.28731	0.01755	0.72661	0.00780	-0.81338	0.00532	-2.20054	0.00648	0	0
207193	1.07596	0	-0.59167	0	0	0	1.89162	0	0.68887	0	-0.62462	0	-1.95587	0	0	0
227783	1.20691	0	-0.50628	0	0	0	1.67915	0	0.71467	0	-0.56599	0	-1.82783	0	0	0
207639	1.13942	0	-0.92070	0	0	0	1.86051	0	0.66850	0	-0.73571	0	-1.79330	0	0	0

Table H-13. 2011 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)
284606	1.09372	0	0.11424	0	0.15759	0
284608	1.23854	0	0.09308	0	0.20482	0
284613	1.17882	0	0.12492	0	0.14430	0
284615	0.84897	0	0.38737	0	0.15588	0
284618	1.84598	0	0.18801	0	0.28182	0
284623	1.75258	0	0.63770	0	0.27283	0
284625	1.05952	0	0.01091	0	0.22070	0
284617	1.24515	0	0.81599	0	0.17162	0
286709	0.57798	0	0.06433	0	0.21346	0
286712	1.84444	0	0.20032	0	0.24135	0
286717	0.99714	0	-0.04181	0	0.25768	0
286720	1.61421	0	0.31673	0	0.22406	0
285129	0.55211	0	-0.46123	0	0.22671	0
285131	1.05651	0	0.27743	0	0.21272	0
285133	1.25417	0	0.35369	0	0.13915	0
285142	1.20917	0	0.86299	0	0.33467	0
279596	0.84314	0	1.11570	0	0.22949	0
279601	1.18516	0	0.56328	0	0.10299	0
279606	1.24971	0	0.51201	0	0.19540	0
279607	1.96717	0	-0.04303	0	0.16594	0
279608	1.22442	0	-0.02006	0	0.19009	0
279609	1.31473	0	0.29454	0	0.26129	0
279620	1.34494	0	0.40486	0	0.15116	0
279617	1.55890	0	0.22447	0	0.19698	0
287500	1.23526	0	-0.52001	0	0.20407	0
285194	1.76842	0	0.02993	0	0.19863	0
285201	0.65956	0	0.22925	0	0.18981	0
285204	1.07934	0	0.98558	0	0.11843	0
285212	1.17737	0	-0.43251	0	0.18940	0
285190	1.78008	0	0.03682	0	0.26792	0
285210	1.20362	0	0.24633	0	0.21031	0
259108	0.88355	0	-0.19092	0	0.24511	0
259121	1.43278	0	0.10232	0	0.27142	0
259131	1.04568	0	0.66642	0	0.14934	0
263971	0.85019	0	-0.07973	0	0.25695	0
259136	1.66604	0	-0.07151	0	0.18607	0

Table H-14. 2011 MCAS: IRT Parameters for Polytomous Items – ELA Grade 10

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
284635	1.49899	0	0.62925	0	0	0	1.62954	0	0.55360	0	-0.51979	0	-1.66336	0	0	0
285143	1.39277	0	0.84423	0	0	0	1.67549	0	0.54673	0	-0.52296	0	-1.69927	0	0	0
279621	1.80864	0	0.60536	0	0	0	1.29171	0	0.46275	0	-0.41545	0	-1.33901	0	0	0
285217	1.45840	0	0.54953	0	0	0	1.45224	0	0.73429	0	-0.55336	0	-1.63318	0	0	0

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
281754C	1.18725	0	-2.11719	0	0	0	2.45399	0	2.05510	0	0.22260	0	-0.35411	0	-1.82653	0
281754T	1.06059	0	0.12906	0	0	0	4.19155	0	3.84490	0	2.61215	0	2.06199	0	0.50685	0

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)		
281754C (continued)	-2.55105	0	0	0										
281754T (continued)	-0.14430	0	-1.75106	0	-2.53460	0	-4.05678	0	-4.73069	0	0	0		

Table H-15. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 3

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
203711	1.30073	0.01721	-0.54872	0.01353	0.16893	0.00809
207767	1.28741	0.02059	-0.76000	0.01978	0.31763	0.01072
264562	0.89952	0.01304	-0.52133	0.01989	0.08318	0.01010
206959	0.86045	0.01535	-1.00552	0.03630	0.20215	0.01773
212475	1.32272	0.02021	-0.62623	0.01704	0.29474	0.00944
294316	1.20169	0.01579	-0.34229	0.01276	0.14154	0.00722
282101	0.27082	0.00594	-2.20382	0.05132	0	0
207018	1.05299	0.01722	-0.52225	0.02148	0.26464	0.01051
252908	1.16133	0.01685	0.18658	0.01063	0.15479	0.00553
261810	0.75976	0.01616	-1.41977	0.06183	0.23170	0.02880
260526	1.35892	0.01818	-0.12363	0.01055	0.18859	0.00605
260524	0.71165	0.00733	-0.85236	0.01073	0	0
253584	1.43002	0.01737	-0.22186	0.00928	0.13415	0.00563
273038	0.85318	0.01499	-0.25197	0.02326	0.18319	0.01044

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
207799	0.87601	0.01951	-1.16597	0.05169	0.40584	0.02049
294317	1.21958	0.02513	-0.25456	0.02199	0.51057	0.00809
207021	1.01796	0.02209	-1.49178	0.05104	0.41211	0.02372
281209	0.91497	0.01487	-0.10367	0.01797	0.15574	0.00850
282990	1.01803	0.01281	-0.36826	0.01336	0.05399	0.00704
263123	0.81995	0.01365	-1.30706	0.03924	0.07367	0.02165
227238	1.16027	0.01676	-0.49792	0.01649	0.20360	0.00901
264566	0.91472	0.01336	-1.52488	0.03197	0	0.02001
218497	0.95770	0.01409	-0.81315	0.02299	0.11588	0.01241
281979	1.35471	0.01744	-0.86138	0.01429	0.12465	0.00921
281984	1.49320	0.02540	0.75199	0.00729	0.19957	0.00353
207140	1.31251	0.01680	-1.11698	0.01591	0.07306	0.01050
202988	1.11768	0	-0.53830	0	0.20536	0
218486	0.56845	0	-1.71476	0	0.21844	0
207010	1.13050	0	0.45088	0	0.15437	0
203539	1.18878	0	0.18557	0	0.34876	0
252919	0.59626	0	0.35019	0	0.07320	0
207776	0.77917	0	-0.92107	0	0.28786	0
263115	0.98529	0	1.66680	0	0.14728	0
227276	0.64517	0	-1.97091	0	0.20683	0
202961	0.71502	0	-1.57503	0	0.21077	0
206993	1.15588	0	-0.34452	0	0.23690	0
206980	1.17369	0	-0.56353	0	0.21991	0
281223	0.98041	0	-1.03090	0	0.26510	0
218523	1.12879	0	-0.95709	0	0.08063	0
252969	0.39328	0.00593	-0.87032	0.01814	0	0
281105	1.14250	0.00948	0.17151	0.00474	0	0
273041	0.63596	0.00909	-2.37991	0.02972	0	0
252976	0.89657	0.00881	-1.15422	0.01080	0	0
283007	1.41565	0.01112	0.03619	0.00415	0	0
261014	0.57806	0.00754	-1.83135	0.02285	0	0
227295	0.68978	0	-0.75402	0	0	0
203643	0.68004	0	-1.07231	0	0	0
227103	0.72463	0	-0.46072	0	0	0

Table H-16. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics 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>c</i>	<i>SE (c)</i>	<i>D0</i>	<i>SE (D0)</i>	<i>D1</i>	<i>SE (D1)</i>	<i>D2</i>	<i>SE (D2)</i>
281998	0.98006	0.00601	-1.31114	0.00533	0	0	1.35118	0.01499	-1.35118	0.00535	0	0
241024	0.89216	0.00485	-0.84139	0.00543	0	0	1.05174	0.00996	-1.05174	0.00571	0	0
252972	0.85855	0	-1.28862	0.0068	0	0	0.86854	0.01133	-0.86854	0.00622	0	0
283021	1.04729	0.00683	-0.97456	0.00615	0	0	0.43657	0.00757	-0.43657	0.00553	0	0
203638	0.73652	0.02047	-0.90485	0.03216	0	0	0.53707	0.03803	-0.53707	0.02948	0	0
208002	0.97408	0	-1.02989	0	0	0	0.11665	0	-0.11665	0	0	0

Table H-17. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 4

<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>
250366	0.95751	0.01586	-1.83050	0.04620	0	0.03467
227560	0.52682	0.00660	-1.44127	0.02049	0	0
294559	1.23518	0.02412	-0.33490	0.02323	0.50548	0.00878
258216	0.72058	0.02416	1.22028	0.02298	0.34223	0.00724
221875	0.67206	0.01930	0.06152	0.04813	0.42059	0.01313
247521	1.60141	0.01825	0.78204	0.00495	0.05220	0.00218
227369	1.01890	0.01738	-0.97007	0.03149	0.27037	0.01610
258277	1.30290	0.01703	-0.76184	0.01547	0.13842	0.00960
218934	0.89165	0.02158	0.19339	0.02900	0.47273	0.00874
294558	1.02733	0.01601	-0.41991	0.02127	0.23810	0.01035
272238	0.71822	0.00812	-1.57871	0.01742	0	0
250362	0.96981	0.01020	-1.49512	0.01333	0	0
219000	0.70579	0.01221	-0.19875	0.02784	0.07885	0.01190
227390	0.74596	0.01457	-1.63846	0.06763	0.06481	0.03921
295244	0.96611	0.01322	-0.68309	0.02082	0.08359	0.01123
218914	1.05661	0.01479	-0.96698	0.02275	0.10149	0.01346
227526	0.79216	0.00861	-1.51686	0.01561	0	0
218906	0.54775	0.00691	-1.60809	0.02181	0	0
247474	0.74356	0.00755	-1.07043	0.01253	0	0
294560	1.20387	0.01559	-0.17367	0.01258	0.15181	0.00686
294561	0.91307	0.02076	-0.09239	0.03157	0.47444	0.00994
218990	0.99943	0.01837	-2.14071	0.05929	0	0.05122

Continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
281561	1.07700	0.01609	-0.16075	0.01678	0.22167	0.00823
294562	1.02096	0.01971	0.36358	0.01762	0.34351	0.00693
247528	1.41090	0.02298	1.19459	0.00698	0.11788	0.00266
279761	1.46323	0.01842	0.25278	0.00815	0.16117	0.00456
218908	1.42729	0.01791	0.55246	0.00681	0.11497	0.00355
247523	0.88836	0.01553	-0.23637	0.02510	0.25009	0.01076
280099	1.25914	0.02343	1.08382	0.00884	0.20880	0.00368
258267	1.17724	0.01593	0.26342	0.01046	0.14933	0.00535
218889	0.65271	0.01662	-1.39497	0.09289	0.28179	0.03662
258201	0.81807	0.01524	-0.52076	0.03402	0.25274	0.01426
258190	0.86384	0	0.67372	0	0.13494	0
227518	1.54446	0	-0.23900	0	0.29958	0
222082	0.76594	0	-1.23960	0	0.13843	0
221903	0.74446	0	-1.07980	0	0.19771	0
258221	1.57205	0	0.58255	0	0.25546	0
221974	0.88569	0	-1.00492	0	0.32313	0
226150	1.14859	0	-0.66641	0	0.13311	0
250328	0.82419	0	-0.83699	0	0.14310	0
247587	1.05833	0	-0.21612	0	0.14431	0
221984	1.02034	0	-0.62095	0	0.13419	0
227512	0.83213	0	-0.71671	0	0.08557	0
222095	1.67390	0	0.54069	0	0.16224	0
228713	1.31453	0	-0.44946	0	0.24296	0
250443	1.20698	0	-0.16093	0	0.32309	0
228829	0.69765	0	-0.60620	0	0.25009	0
218909	0.94407	0	-0.63488	0	0.26657	0
258237	0.98172	0.00990	-1.34284	0.01201	0	0
295242	0.71449	0.00873	-1.89240	0.02121	0	0
279792	1.05438	0.00881	0.50373	0.00510	0	0
281506	0.65283	0.00660	0.29239	0.00751	0	0
219072	0.72063	0.00706	-0.67847	0.01025	0	0
258215	1.13271	0.00941	-0.42812	0.00635	0	0
247658	0.91685	0	-0.52320	0	0	0
280105	0.91278	0	-1.23549	0	0	0
221898	0.57515	0	-0.56050	0	0	0

Table H-18. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 4

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
281891	1.44891	0.00615	-0.36139	0.00306	0	0	1.30444	0.00841	0.26819	0.00493	-0.40966	0.00404	-1.16297	0.00406	0	0
281896	1.23193	0	-0.67553	0.00372	0	0	1.44521	0.01134	0.37755	0.00637	-0.62030	0.00459	-1.20247	0.00444	0	0
258283	0.91212	0.00366	0.55596	0.00452	0	0	1.39512	0.00688	0.24008	0.00554	-0.33480	0.00574	-1.30040	0.00768	0	0
258253	1.17749	0.00630	-0.41222	0.00431	0	0	0.44575	0.00603	0.20637	0.00549	-0.05273	0.00507	-0.59939	0.00464	0	0
227315	0.94645	0	-0.41814	0	0	0	1.66253	0	0.56754	0	-0.58466	0	-1.64541	0	0	0
227323	0.65276	0	-0.42584	0	0	0	1.54572	0	0.33035	0	-0.40230	0	-1.47376	0	0	0

Table H-19. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 5

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
280473	0.59777	0.01356	-1.76082	0.09172	0.25889	0.03448
280490	0.96507	0.01675	-1.24542	0.03551	0.31775	0.01650
217389	0.85611	0.01256	-1.42519	0.03266	0.10231	0.01721
273793	1.19680	0.01696	0.02690	0.01308	0.24669	0.00621
264511	1.28079	0.02566	1.16150	0.01065	0.33232	0.00366
273795	0.79128	0.01458	-1.18565	0.04518	0.29995	0.01853
280988	0.96787	0.01632	-0.33485	0.02366	0.33609	0.00949
280491	0.98097	0.01407	-0.08563	0.01649	0.19501	0.00744
294280	1.02637	0.01327	-0.04248	0.01333	0.13229	0.00634
272772	0.71334	0.00838	-2.00536	0.02065	0	0
261584	0.95742	0.01350	-0.71085	0.02187	0.17378	0.01071
248892	0.63777	0.01336	-1.37961	0.06829	0.26793	0.02537
280479	0.89090	0.01186	-0.96171	0.02321	0.08980	0.01171
204888	0.95615	0.01268	-0.41367	0.01755	0.13333	0.00844
261579	0.83931	0.01270	-0.49603	0.02454	0.18004	0.01075
272898	0.74580	0.01508	-0.06553	0.03205	0.33037	0.01056
204737	0.99567	0.01401	-1.61298	0.02734	0.07332	0.01601
272777	1.32415	0.01742	-0.46675	0.01337	0.20941	0.00739
280695	0.66005	0.00862	-2.40013	0.02711	0	0
280990	1.35527	0.01948	0.10747	0.01152	0.28269	0.00557
280505	1.73482	0.03304	0.93708	0.00881	0.40710	0.00339
260824	0.88629	0.01868	0.86907	0.01688	0.31722	0.00570

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
248905	1.24709	0.01859	0.86198	0.00857	0.18106	0.00365
248737	1.31540	0.02170	0.47813	0.01160	0.34367	0.00486
280486	0.95596	0.01429	-1.26587	0.02909	0.17427	0.01538
221154	0.97654	0.01300	-0.42973	0.01749	0.14300	0.00848
280730	1.09045	0.02303	0.73417	0.01583	0.43404	0.00511
261589	1.21002	0.01673	0.12765	0.01187	0.22188	0.00569
261223	0.79763	0.01347	0.29916	0.01934	0.18991	0.00752
280510	0.72202	0.00835	-1.94481	0.01979	0	0
248885	1.00811	0.01451	0.70321	0.01023	0.12766	0.00434
207077	0.95858	0.01336	0.46302	0.01166	0.12058	0.00507
248869	0.79206	0	-0.24137	0	0.15733	0
206922	1.08312	0	0.11174	0	0.51126	0
260681	0.91964	0	0.26675	0	0.20733	0
217299	0.74981	0	-0.12908	0	0.20195	0
204708	0.75860	0	-1.63343	0	0.13469	0
280666	0.79102	0	-1.39582	0	0.23316	0
273044	0.73100	0	-0.31144	0	0.46429	0
260695	0.75193	0	-0.19514	0	0.17696	0
261198	0.60921	0	-0.92484	0	0.31015	0
272892	0.97702	0	-0.21431	0	0.21676	0
204866	0.96776	0	-0.03752	0	0.18107	0
206930	0.99212	0	0.70118	0	0.24298	0
204785	1.13891	0	-1.10801	0	0.16743	0
260837	1.01969	0	0.32997	0	0.17707	0
273050	0.64709	0	-0.29245	0	0.22131	0
272911	0.91272	0	-0.51018	0	0.10551	0
204924	0.72650	0.00656	-0.30061	0.00824	0	0
280828	0.95658	0.00777	0.08472	0.00587	0	0
280503	1.10810	0.00872	0.32546	0.00507	0	0
280746	0.66162	0.00623	-0.31952	0.00895	0	0
261596	0.76388	0.00733	-1.05796	0.01155	0	0
217411	0.67719	0.00626	0.00012	0.00783	0	0
204915	0.78411	0	-1.31448	0	0	0
207514	0.86165	0	-0.41556	0	0	0
280747	0.60193	0	-0.40019	0	0	0

Table H-20. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 5

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
249171	0.78503	0.00386	-1.69862	0.00627	0	0	1.77731	0.02226	0.73553	0.01327	-0.69849	0.00782	-1.81435	0.00652	0	0
272899	1.13609	0.00499	-0.48154	0.00395	0	0	1.32456	0.00932	0.09683	0.00560	-0.06938	0.00536	-1.35202	0.00504	0	0
280511	1.06858	0.00415	0.28688	0.00389	0	0	1.53532	0.00736	0.46241	0.00530	-0.46682	0.00511	-1.53091	0.00687	0	0
273032	1.04378	0.00459	-0.27066	0.00419	0	0	1.05544	0.00765	0.18794	0.00569	-0.10981	0.00536	-1.13357	0.00533	0	0
198686	1.07174	0	-0.53072	0	0	0	1.28061	0	0.12386	0	-0.14451	0	-1.25996	0	0	0
198678	1.03969	0	-0.11567	0	0	0	1.18292	0	0.17885	0	-0.22656	0	-1.13520	0	0	0

Table H-21. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 6

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
272287	0.81873	0.01446	-1.76223	0.05488	0.09780	0.03293
217484	0.84210	0.01982	-0.22287	0.04049	0.49993	0.01172
282271	1.23455	0.01749	0.07246	0.01305	0.23727	0.00656
264283	0.64732	0.01808	-1.24978	0.09970	0.47086	0.02886
282122	0.81337	0.01480	-0.81536	0.04048	0.27011	0.01757
272298	0.95325	0.02231	0.91806	0.01792	0.39764	0.00580
282264	0.80463	0.01147	-0.71838	0.02713	0.06872	0.01352
265893	0.80145	0.01393	0.12506	0.02342	0.19777	0.00952
251435	1.26281	0.01737	-0.35750	0.01519	0.21825	0.00844
251311	1.37909	0.01990	0.73580	0.00841	0.20826	0.00400
282131	1.33167	0.01588	0.42659	0.00782	0.10757	0.00402
272182	1.19568	0.01537	0.40081	0.00959	0.13108	0.00478
273821	0.82311	0.01406	-0.65122	0.03412	0.22591	0.01525
251462	1.00014	0.01359	-0.13238	0.01623	0.13642	0.00808
217513	1.17324	0.01599	-1.02423	0.02050	0.13061	0.01303
294336	0.88149	0.01410	0.55046	0.01470	0.14595	0.00631
217529	0.82318	0.01183	-1.44308	0.03471	0	0.02012
282142	1.09669	0.01446	-0.04787	0.01380	0.14565	0.00707
272361	1.19120	0.01533	-0.89702	0.01772	0.10636	0.01114
229883	1.25103	0.01730	0.20206	0.01160	0.21427	0.00586
272176	1.26740	0.01727	0.49482	0.00949	0.17982	0.00468
251342	1.11569	0.01444	-0.23699	0.01461	0.13893	0.00781

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
221656	1.29977	0.01708	-0.95341	0.01692	0.12252	0.01120
251471	0.64615	0.01622	0.09158	0.04531	0.34182	0.01348
282484	0.91869	0.01154	-1.14033	0.02260	0.00567	0.01264
251397	1.12483	0.01497	0.01210	0.01328	0.15953	0.00678
273822	0.88919	0.01598	0.36302	0.01960	0.25995	0.00776
266101	0.42957	0.01823	0.60614	0.08758	0.32105	0.01942
229931	1.18344	0.02160	-0.52745	0.02547	0.44178	0.01083
282123	1.83245	0.02208	-0.12514	0.00779	0.15898	0.00505
222248	0.79946	0.01325	0.59148	0.01596	0.11759	0.00665
251331	0.87018	0.01332	0.81221	0.01151	0.08429	0.00488
227737	1.03134	0	-0.07848	0	0.22096	0
229034	0.75854	0	-0.57875	0	0.24357	0
229927	1.22184	0	-0.58482	0	0.15754	0
266115	0.97414	0	0.25901	0	0.24129	0
227720	1.27847	0	-0.54972	0	0.20207	0
227709	1.18700	0	-0.84792	0	0.13535	0
251387	0.49210	0	-0.17571	0	0.23595	0
229917	1.40927	0	-0.22415	0	0.22391	0
227740	0.69720	0	0.16650	0	0.15918	0
273824	0.94057	0	-0.04571	0	0.23721	0
229862	0.77828	0.07439	-0.93716	0.24134	0.36149	0.09193
223163	1.08319	0	-0.36141	0	0.20450	0
272358	1.10199	0	-0.16115	0	0.15524	0
272300	1.42856	0	0.04723	0	0.21154	0
226187	1.41458	0	-0.61846	0	0.12825	0
223113	0.73144	0	-1.25749	0	0.21154	0
282162	0.45160	0.00585	-1.19350	0.02063	0	0
282252	0.45340	0.00555	-0.51091	0.01423	0	0
282487	0.75579	0.00699	0.76337	0.00697	0	0
282350	0.97128	0.00800	0.51458	0.00549	0	0
282161	0.98498	0.00814	-0.17851	0.00640	0	0
265899	0.96107	0.00832	-0.53227	0.00775	0	0
272306	1.05320	0	0.39530	0	0	0
251345	0.55910	0	-1.47941	0	0	0
264305	0.54089	0	-0.68675	0	0	0

Table H-22. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 6

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
282163	1.21726	0.00581	-0.85243	0.00402	0	0	1.43676	0.01330	0.04282	0.00614	-0.18259	0.00564	-1.29699	0.00458	0	0
282474	1.38711	0.00578	0.33017	0.00310	0	0	1.16922	0.00572	0.10479	0.00417	-0.29996	0.00409	-0.97405	0.00469	0	0
272190	1.06223	0.00551	-0.64498	0.00489	0	0	0.85650	0.00855	0.04947	0.00610	-0.12992	0.00578	-0.77605	0.00514	0	0
282490	0.96212	0.00440	-0.16018	0.00452	0	0	0.77053	0.00703	0.28963	0.00606	0.06564	0.00577	-1.12579	0.00561	0	0
282164	1.38063	0	0.33245	0	0	0	1.66780	0	-0.08042	0	-0.35449	0	-1.23289	0	0	0
229936	0.97755	0	-0.72926	0	0	0	1.35136	0	0.16085	0	-0.35115	0	-1.16106	0	0	0

Table H-23. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 7

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
219454	0.84593	0.01151	-1.73968	0.03158	0	0.01798
272713	0.98311	0.01562	-0.84536	0.02600	0.30074	0.01144
272150	0.55281	0.00605	-1.55473	0.01754	0	0
228026	0.68384	0.01578	-1.35137	0.07120	0.41413	0.02254
261650	1.02530	0.01905	0.06812	0.02010	0.42860	0.00668
249141	0.76284	0.01229	-0.08337	0.02255	0.17507	0.00867
259275	1.38033	0.02467	0.61016	0.01132	0.40330	0.00414
281674	0.40932	0.00541	-1.85486	0.02607	0	0
250204	0.80755	0.01303	-0.20459	0.02323	0.21698	0.00900
261096	0.77404	0.01205	0.11892	0.01887	0.14344	0.00735
219417	1.05190	0.01342	0.37428	0.00993	0.11338	0.00428
219445	1.40698	0.01985	0.78275	0.00755	0.18457	0.00320
294314	0.59809	0.01070	-0.62203	0.04063	0.10601	0.01507
262270	0.89629	0.01317	-0.11460	0.01798	0.19179	0.00747
260253	0.76064	0.01469	-0.79754	0.04120	0.34887	0.01428
250856	1.50390	0.02361	0.75746	0.00836	0.28155	0.00347
235452	0.56245	0.00646	-1.89320	0.02066	0	0
228013	1.32926	0.01687	-0.00868	0.01011	0.19799	0.00498
281698	0.64038	0.01328	-0.21014	0.03858	0.26491	0.01227
282957	1.30534	0.01502	0.38247	0.00736	0.09901	0.00334
272139	1.11182	0.01518	0.22891	0.01147	0.19169	0.00504
250248	0.91786	0.01488	-1.57881	0.03737	0.20036	0.01980

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
219518	0.94884	0.01644	0.08809	0.01934	0.33526	0.00698
208688	0.79505	0.01539	-1.69352	0.05742	0.29843	0.02543
219485	0.96921	0.01235	0.14332	0.01191	0.10626	0.00518
272451	0.70378	0.01177	-0.64881	0.03364	0.17118	0.01320
281970	0.72431	0.00683	-1.20268	0.01178	0	0
250225	1.09773	0.01899	0.42512	0.01428	0.34673	0.00524
208369	1.04383	0.02136	0.61008	0.01638	0.42253	0.00514
205475	1.10206	0.01640	0.42638	0.01165	0.22864	0.00482
250531	1.33916	0.02299	0.26479	0.01320	0.42558	0.00495
205549	0.91497	0.01350	-0.98366	0.02644	0.19491	0.01261
272149	1.32335	0	0.70094	0	0.25983	0
205230	1.12459	0	0.12636	0	0.21936	0
208377	0.85109	0	-1.35672	0	0.24510	0
249164	1.35895	0	0.41890	0	0.17659	0
235468	0.87629	0	-0.41801	0	0.15739	0
235415	0.73819	0	0.94135	0	0.17584	0
272872	0.83200	0	0.58205	0	0.38114	0
205464	1.60546	0	0.58687	0	0.29033	0
208512	1.43719	0	-0.43908	0	0.15584	0
198393	1.31539	0	0.29835	0	0.18967	0
250480	1.58447	0	0.32581	0	0.10523	0
208708	0.75864	0	-0.45150	0	0.08862	0
282222	1.13511	0	-0.03380	0	0.19646	0
250242	0.81970	0	-0.07361	0	0.23154	0
261644	1.22010	0	0.13313	0	0.06681	0
235440	1.25275	0	0.13862	0	0.46140	0
250207	0.76296	0.00650	-0.42630	0.00790	0	0
282288	0.87657	0.00705	-0.05978	0.00634	0	0
259286	0.59229	0.00591	-1.06479	0.01292	0	0
282322	0.88505	0.00780	-1.06425	0.00942	0	0
208792	0.87756	0.00713	-0.36862	0.00695	0	0
287941	0.87939	0.00824	-1.37626	0.01116	0	0
272875	0.98416	0	-0.91207	0	0	0
250263	1.14503	0	-0.12168	0	0	0
250262	0.91234	0	0.18295	0	0	0

Table H-24. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 7

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
259301	1.19165	0.00502	-0.59105	0.00370	0	0	1.26647	0.00861	0.41697	0.00598	-0.15641	0.00512	-1.52703	0.00501	0	0
282289	1.16288	0.00475	-0.74837	0.00373	0	0	1.78487	0.01246	0.74519	0.00733	-0.64501	0.00496	-1.88504	0.00530	0	0
205711	1.15857	0.00523	-0.53802	0.00395	0	0	0.99296	0.00748	0.27925	0.00570	-0.27110	0.00502	-1.00111	0.00483	0	0
272758	1.30525	0.00565	0.07372	0.00337	0	0	1.11775	0.00590	0.01717	0.00446	-0.23743	0.00438	-0.89749	0.00470	0	0
208665	1.20913	0	-0.18491	0	0	0	1.25096	0	0.45886	0	0.00410	0	-1.71391	0	0	0
250450	0.95981	0	-0.58147	0	0	0	1.16675	0	0.78464	0	0.09098	0	-2.04237	0	0	0

Table H-25. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 8

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
273662	1.12678	0.01846	-0.86976	0.02634	0.29191	0.01370
272940	0.59267	0.02019	0.71427	0.04920	0.47416	0.01046
276337	0.45261	0.00544	-1.07007	0.01800	0	0
283254	0.74033	0.01144	-1.06873	0.03926	0.00889	0.02091
275267	1.41604	0.01904	-0.54353	0.01354	0.19640	0.00797
295145	1.01544	0.01389	-0.82624	0.02221	0.10288	0.01261
252998	0.67643	0.01179	-0.60697	0.04020	0.09824	0.01727
265342	1.05099	0.01887	0.26345	0.01869	0.39630	0.00664
219602	0.85739	0.01711	-0.32117	0.03433	0.40192	0.01167
276361	0.55841	0.00695	-1.87914	0.02355	0	0
253818	0.71696	0.01628	0.29630	0.03350	0.36125	0.00992
273658	1.28007	0.01926	0.25829	0.01257	0.31615	0.00550
253702	1.08744	0.01652	0.05520	0.01617	0.27904	0.00698
294565	1.19989	0.01914	0.30138	0.01408	0.34412	0.00572
219567	0.66657	0.01125	-0.38199	0.03452	0.07461	0.01441
252991	1.61411	0.03582	1.11744	0.01110	0.50066	0.00333
229595	0.66941	0.01186	-1.33581	0.05870	0	0.03142
219587	1.16182	0.01860	-0.04087	0.01709	0.34885	0.00719
276363	1.24540	0.01445	0.18212	0.00913	0.10496	0.00450
273661	1.47558	0.01827	0.54756	0.00752	0.16523	0.00362
264729	0.80302	0.01346	-1.03282	0.04090	0.13877	0.02077
219633	1.21732	0.01655	-0.48657	0.01588	0.19087	0.00864

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
284201	1.17794	0.01412	0.07310	0.01057	0.11392	0.00523
253878	1.60498	0.02642	1.06066	0.00811	0.29234	0.00320
288137	0.79322	0.01578	0.16969	0.02816	0.33462	0.00934
294566	0.58051	0.01201	0.05613	0.03972	0.12173	0.01387
219622	1.30399	0.01416	0.03702	0.00839	0.06974	0.00423
265596	1.32374	0.01797	0.55861	0.00925	0.21336	0.00421
273668	1.33699	0.01405	-0.32327	0.00892	0.03830	0.00470
253872	0.76892	0.00659	-0.27537	0.00787	0	0
229526	0.95008	0.01236	-0.45982	0.01851	0.07976	0.00941
253853	0.98426	0.01478	-0.09752	0.01870	0.22735	0.00824
229531	1.03033	0	0.52082	0	0.35556	0
265932	0.79949	0	-0.77791	0	0.10321	0
219579	0.66731	0	-1.48553	0	0.32164	0
264777	1.15702	0	-0.31933	0	0.21173	0
263846	1.37843	0	0.66995	0	0.35478	0
227825	1.58445	0	0.86457	0	0.30014	0
264785	1.40666	0	1.57625	0	0.25977	0
284198	0.62867	0	-0.63597	0	0.24155	0
264776	0.47167	0	-0.96761	0	0	0
253758	0.76645	0	-0.54141	0	0.20083	0
227756	0.62690	0	-1.44591	0	0.13165	0
226927	1.07327	0	0.00523	0	0.13177	0
253742	1.56498	0	0.73758	0	0.42270	0
219599	1.32070	0	0.68328	0	0.25986	0
219614	1.37976	0	-0.45093	0	0.28436	0
219677	0.56219	0	0.04269	0	0.20406	0
219690	0.74768	0.00639	0.38479	0.00688	0	0
283287	0.85628	0.00726	-0.52655	0.00804	0	0
219697	0.81823	0.00731	-0.80008	0.00951	0	0
228548	0.54788	0.00626	-1.42271	0.01847	0	0
284918	0.93257	0.00744	-0.06734	0.00633	0	0
265963	0.75580	0.00658	-0.40077	0.00839	0	0
228127	0.78633	0	-1.35179	0	0	0
226933	0.84999	0	0.61805	0	0	0
285104	1.35594	0	0.45853	0	0	0

Table H-26. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 8

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
264713	1.14576	0.00491	-0.07614	0.00379	0	0	1.17241	0.00713	0.23979	0.00527	-0.36452	0.00485	-1.04769	0.00505	0	0
265967	1.26084	0.00566	-0.29535	0.00364	0	0	0.99821	0.00697	0.14478	0.00512	-0.10824	0.00484	-1.03476	0.00464	0	0
239639	1.33302	0.00572	0.25924	0.00332	0	0	1.49830	0.00673	-0.05007	0.00441	-0.43501	0.00438	-1.01322	0.00483	0	0
264747	1.19928	0.00504	0.06116	0.00362	0	0	1.48707	0.00760	0.01605	0.00485	-0.21450	0.00474	-1.28863	0.00530	0	0
253798	1.29303	0	-0.04268	0	0	0	0.85106	0	0.17963	0	-0.16185	0	-0.86885	0	0	0
253813	1.15659	0	-0.11712	0	0	0	1.17788	0	0.36878	0	0.21904	0	-1.76570	0	0	0

Table H-27. 2011 MCAS: IRT Parameters for Dichotomous Items – Mathematics Grade 10

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
281662	1.08837	0	0.09971	0	0.21814	0
253199	1.80812	0	0.93945	0	0.22382	0
282175	1.03823	0	0.94186	0	0.29005	0
282111	0.88223	0	0.22241	0	0.18610	0
272961	0.89991	0	1.98806	0	0.61344	0
279254	1.20670	0	1.80077	0	0.35514	0
260872	2.19797	0	0.72812	0	0.23776	0
282151	0.94845	0	-0.13670	0	0.20875	0
281523	1.20234	0	1.24897	0	0.14726	0
281567	0.90148	0	1.28480	0	0.16264	0
261529	1.61471	0	0.68437	0	0.14791	0
281517	1.68868	0	0.32736	0	0.13811	0
282137	1.16967	0	-0.10088	0	0.18747	0
261524	1.33251	0	1.24123	0	0.27335	0
281643	1.34023	0	0.16718	0	0.36545	0
282091	1.72696	0	0.61729	0	0.26169	0
260880	1.80030	0	1.32313	0	0.17994	0
281575	1.80481	0	1.17671	0	0.25122	0
273806	1.93460	0	1.34413	0	0.38372	0
282075	0.71449	0	1.08685	0	0.26828	0
281654	1.13938	0	1.37504	0	0.22176	0
260192	0.79595	0	0.55400	0	0.15283	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
250946	1.50433	0	1.66027	0	0.25906	0
281526	1.73470	0	-0.01196	0	0.28649	0
274038	2.04412	0	-0.07801	0	0.18540	0
282081	1.50349	0	-0.14651	0	0.16132	0
281594	0.53615	0	1.80138	0	0.23260	0
281710	1.26505	0	-0.31168	0	0.22709	0
281528	1.75849	0	1.33002	0	0.27046	0
274473	0.78916	0	-0.61573	0	0.28494	0
281597	1.54379	0	0.24655	0	0.31368	0
281720	1.40134	0	-0.17215	0	0.16791	0
279260	0.94038	0	0.64066	0	0	0
251056	0.73458	0	0.34039	0	0	0
273628	0.76851	0	-0.61678	0	0	0
254660	0.79481	0	0.86803	0	0	0

Table H-28. 2011 MCAS: IRT Parameters for Polytomous Items – Mathematics Grade 10

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
286243	1.43982	0	0.92758	0	0	0	0.89094	0	0.14321	0	-0.28870	0	-0.74544	0	0	0
285593	1.31917	0	1.09499	0	0	0	1.47568	0	0.06871	0	-0.70469	0	-0.83970	0	0	0
285493	1.62572	0	0.90659	0	0	0	0.76435	0	-0.00831	0	-0.23231	0	-0.52373	0	0	0
268443	1.93118	0	0.20426	0	0	0	0.94246	0	0.19111	0	-0.27205	0	-0.86153	0	0	0
285609	1.38245	0	0.54823	0	0	0	1.67398	0	0.42058	0	-0.59584	0	-1.49873	0	0	0
279833	1.67965	0	0.50570	0	0	0	0.72868	0	0.21940	0	-0.20147	0	-0.74661	0	0	0

Table H-29. 2011 MCAS: IRT Parameters for Dichotomous Items – STE Grade 5

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
281842	1.00081	0.01536	-1.31751	0.02720	0.20975	0.01430
288182	0.94629	0.01363	-0.21584	0.01531	0.15986	0.00678
273733	0.91616	0.01524	0.56586	0.01147	0.13961	0.00456

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
245445	0.73081	0	-0.86579	0	0.11085	0
281826	0.49458	0.01224	-1.91268	0.11473	0.05414	0.04608
288167	0.40979	0.00621	-2.64327	0.03613	0	0
264800	0.69922	0.01518	-0.60515	0.04154	0.32861	0.01346
281869	1.03765	0.01688	-1.35644	0.02891	0.27115	0.01477
264859	0.97005	0.01501	0.13799	0.01337	0.18445	0.00563
264864	0.52847	0.01384	-0.52490	0.06165	0.22710	0.01833
264815	0.91544	0.01747	0.86566	0.01152	0.16159	0.00418
288215	0.67601	0.01167	-1.51457	0.04852	0.07241	0.02292
281805	0.59970	0.01300	-1.27585	0.06465	0.19351	0.02404
281810	0.79153	0.01086	-0.59243	0.01966	0.05642	0.00878
288161	0.64106	0.01347	-0.24094	0.03441	0.20486	0.01177
245497	0.81614	0.01469	0.08214	0.01922	0.21623	0.00731
281791	0.96925	0.01848	0.19938	0.01705	0.33349	0.00613
288217	0.65706	0.02088	1.01851	0.02371	0.30857	0.00700
264847	0.77831	0.01660	-2.24796	0.07950	0.24372	0.04118
288160	0.83748	0.01657	-1.04538	0.03989	0.38030	0.01458
264869	0.73357	0.01299	-0.64329	0.03129	0.19389	0.01230
273747	0.64345	0.01360	-2.60779	0.10701	0	0.06476
245494	0.77305	0.01312	-2.05969	0.05348	0.05187	0.03153
229099	1.15642	0.02155	0.73677	0.01042	0.25607	0.00389
288146	0.86753	0.01575	-1.90848	0.05015	0.20988	0.02716
273757	0.65891	0.01280	-2.04486	0.07359	0.07876	0.03772
288206	0.49982	0.01539	-1.68944	0.13543	0.31177	0.03966
229126	1.03828	0.01490	-0.68198	0.01819	0.21352	0.00871
288147	0.89581	0.01697	-1.13941	0.03714	0.37417	0.01459
281853	0.95132	0.01341	-0.79270	0.02004	0.15849	0.00970
281813	0.86259	0.01730	0.68059	0.01411	0.21248	0.00518
229145	0.92578	0.01378	-1.14707	0.02606	0.16991	0.01309
288172	0.70229	0.01348	-1.26757	0.04906	0.21968	0.01998
288158	0.70196	0.01233	-0.73209	0.03338	0.15598	0.01335
273762	1.07301	0.01537	0.05257	0.01183	0.18040	0.00527
288183	0.88402	0.01772	0.70341	0.01369	0.21747	0.00501
264842	1.06931	0.01613	-0.70790	0.01927	0.26805	0.00897
245463	0.84849	0.01705	-2.00538	0.06112	0.28145	0.03074
273717	0.99159	0	0.18329	0	0.28956	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
253150	0.99659	0	-0.64716	0	0.19523	0
281843	0.97507	0	-1.35302	0	0.28744	0
245343	0.85649	0	-1.33276	0	0.19577	0
273776	0.79721	0	-0.27985	0	0.30102	0
281864	1.09535	0	-0.37197	0	0.13103	0
245539	0.94894	0	-0.42809	0	0.20110	0
253115	0.92295	0	-0.89912	0	0.21818	0
273716	0.86290	0	-0.75745	0	0.24622	0
273693	0.62018	0	-2.15412	0	0.20963	0
264881	0.86805	0	-0.26836	0	0.15268	0
264841	1.02052	0	-0.18318	0	0.29498	0
273760	0.91557	0	0.27454	0	0.20388	0
264868	0.73930	0	-0.92277	0	0.24904	0
245106	1.09079	0	1.08326	0	0.23137	0
245527	0.86565	0	-0.30441	0	0.21627	0
273753	0.75469	0	-0.63525	0	0.30219	0
288141	0.86410	0	-0.64884	0	0.29808	0
281793	0.90430	0	0.52785	0	0.18489	0

Table H-30. 2011 MCAS: IRT Parameters for Polytomous Items – STE Grade 5

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
288173	0.96151	0.00412	-0.22925	0.00442	0	0	1.20031	0.00719	0.68222	0.00616	-0.72610	0.00560	-1.15643	0.00607	0	0
288169	0.89315	0.00355	-0.67916	0.00464	0	0	1.67493	0.01072	0.51812	0.00691	-0.50376	0.00580	-1.68929	0.00652	0	0
273698	0.73827	0.00275	0.33437	0.00557	0	0	2.44071	0.01027	0.62380	0.00681	-0.75028	0.00754	-2.31423	0.01336	0	0
281876	0.71500	0.00280	-0.73926	0.00579	0	0	2.08044	0.01367	0.99875	0.00917	-0.99617	0.00695	-2.08302	0.00823	0	0
264845	0.65622	0	0.47240	0	0	0	2.19002	0	0.70387	0	-0.38564	0	-2.50824	0	0	0
227828	0.68828	0	-1.10594	0	0	0	2.24486	0	0.70841	0	-0.73847	0	-2.21480	0	0	0

Table H-31. 2011 MCAS: IRT Parameters for Dichotomous Items – STE Grade 8

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
273930	0.50877	0.00827	-2.76598	0.04143	0	0
273952	0.72916	0.01362	-1.15660	0.04979	0.18035	0.02306
281950	0.81678	0.01554	-0.17781	0.02788	0.26730	0.01095
273945	1.28152	0.01832	-1.06800	0.01968	0.17399	0.01297
274013	0.83661	0.01467	-0.85020	0.03553	0.22248	0.01651
282016	0.82790	0.02352	0.93731	0.02103	0.39185	0.00637
229447	1.25611	0.01674	0.36826	0.00879	0.14753	0.00438
273966	0.48271	0.01377	-0.69509	0.08976	0.16612	0.02825
281937	0.80245	0.01294	-0.57903	0.02824	0.13370	0.01321
274027	0.82714	0.01598	-0.48441	0.03361	0.30255	0.01331
229469	2.50126	0.06188	1.19465	0.00735	0.43617	0.00252
246348	1.12236	0.01657	-0.81595	0.02128	0.20652	0.01203
288335	1.19499	0.02385	0.65859	0.01305	0.37957	0.00485
282068	0.49062	0.00629	-1.47117	0.02047	0	0
265268	1.16025	0.01615	0.05883	0.01197	0.18250	0.00601
282031	1.06303	0.01951	-1.84308	0.04507	0.24515	0.02974
265259	0.71907	0.01646	0.33193	0.02797	0.26820	0.00968
229450	0.57467	0.00980	-2.98823	0.04469	0	0
282003	1.31365	0.02001	-0.86268	0.01934	0.26828	0.01143
246340	0.91225	0.01552	-0.25090	0.02302	0.24765	0.01002
246286	1.08974	0.01848	0.14484	0.01572	0.30746	0.00672
265293	0.90885	0.01838	-0.24699	0.02888	0.39225	0.01044
265243	1.26486	0.01909	-1.22102	0.02293	0.19441	0.01535
273982	1.48618	0.02761	1.37316	0.00791	0.13378	0.00230
265218	0.46110	0.00571	-0.69517	0.01394	0	0
265287	0.35120	0.00541	-1.05220	0.02176	0	0
273972	1.20679	0.01795	0.18756	0.01183	0.23777	0.00568
273969	0.97620	0.01954	-0.16708	0.02565	0.41862	0.00923
282045	0.38235	0.00620	-2.16471	0.03626	0	0
265279	1.35420	0.02681	1.01126	0.00961	0.29852	0.00360
281953	1.17443	0.01846	0.26922	0.01240	0.26151	0.00567
273980	0.93679	0.01292	-0.75497	0.02177	0.09172	0.01181
274028	1.06443	0.01446	-0.75744	0.01916	0.12469	0.01098
282057	0.93173	0.01398	0.27541	0.01350	0.12491	0.00616
281975	0.76256	0.01267	-0.43221	0.02813	0.12447	0.01256

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
282036	1.16016	0.01626	0.18957	0.01117	0.17704	0.00551
281955	0.72792	0.01549	-0.01276	0.03176	0.26215	0.01143
282006	1.22299	0.03099	1.35770	0.01171	0.30629	0.00346
265249	0.43086	0	-0.77206	0	0.18731	0
265247	0.91262	0	0.75230	0	0.22527	0
246328	0.90684	0	-0.41626	0	0.11132	0
273955	1.11025	0	-0.52243	0	0.37499	0
282039	1.67837	0	-0.08159	0	0.28843	0
246356	0.59797	0	0.72735	0	0.23033	0
265283	1.14565	0	-0.09743	0	0.21732	0
265280	1.15704	0	0.83060	0	0.11402	0
282065	0.56281	0	0.29713	0	0.16486	0
265302	0.59529	0	0.28616	0	0.16945	0
282021	0.70947	0	-0.45107	0	0.17645	0
273989	0.80001	0	-1.75151	0	0.19364	0
273932	1.22750	0	0.14680	0	0.25235	0
282054	1.89046	0	1.16294	0	0.21167	0
282005	0.80916	0	1.17921	0	0.35748	0
265292	0.76355	0	0.02708	0	0.20664	0
265305	0.98004	0	-0.24570	0	0.21874	0
265230	0.72152	0	0.98599	0	0.21592	0
273956	0.90303	0	0.43580	0	0.15058	0

Table H-32. 2010 MCAS: IRT Parameters for Polytomous Items – STE Grade 8

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
252715	1.20671	0.00459	0.22102	0.00350	0	0	1.77834	0.00764	0.53892	0.00480	-0.50195	0.00468	-1.81531	0.00803	0	0
281084	0.74311	0.00293	0.75328	0.00548	0	0	1.74221	0.00777	0.38219	0.00659	-0.45476	0.00729	-1.66964	0.01101	0	0
273887	0.98907	0.00375	0.14989	0.00418	0	0	1.61853	0.00784	0.63197	0.00565	-0.37105	0.00529	-1.87945	0.00845	0	0
265231	0.85614	0.00326	0.29530	0.00478	0	0	2.03197	0.00930	0.27237	0.00591	-0.61521	0.00619	-1.68914	0.00867	0	0
282043	0.92933	0	0.48639	0	0	0	1.98235	0	0.58221	0	-0.64268	0	-1.92188	0	0	0
229455	1.14326	0	-0.47466	0	0	0	1.53522	0	0.47481	0	-0.48487	0	-1.52516	0	0	0

Table H-33. 2011 MCAS: IRT Parameters for Dichotomous Items – High School Biology

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
281175	1.51772	0	-0.72642	0	0.41458	0
234716	1.26224	0	0.03235	0	0.29498	0
243371	0.74063	0	-2.11619	0	0.19180	0
273497	0.91398	0	-0.12965	0	0.41844	0
281146	1.07345	0	-0.05487	0	0.28457	0
208074	0.52360	0	-0.52600	0	0.21735	0
260954	0.91702	0	-0.30743	0	0.10654	0
264686	1.30321	0	-0.02673	0	0.27303	0
264690	1.14262	0	-0.72245	0	0.21370	0
272919	0.63709	0	-0.99943	0	0.13186	0
272917	0.97479	0	0.94207	0	0.52858	0
266315	0.81836	0	0.13189	0	0.11754	0
213735	1.59435	0	-0.41057	0	0.23248	0
267514	0.85509	0	-0.69185	0	0.25926	0
281151	0.69672	0	1.21942	0	0.19857	0
283116	0.83819	0	-0.30979	0	0.43928	0
276786	0.89489	0	-0.63916	0	0.24815	0
283225	0.71066	0	0.26372	0	0.20609	0
283073	0.94873	0	-0.45180	0	0.24950	0
273493	1.24118	0	-0.03139	0	0.28515	0
208142	1.33593	0.02101	-0.06538	0.01268	0.24420	0.00617
273489	1.03471	0	-0.78301	0	0.25914	0
276775	1.59044	0	-0.07441	0	0.37187	0
275589	1.23536	0	0.21395	0	0.20431	0
276497	1.04944	0	-0.24285	0	0.27920	0
266390	0.92050	0	-1.16615	0	0.29909	0
230229	1.28929	0	-0.54962	0	0.25804	0
208201	1.32151	0	0.69213	0	0.21015	0
283031	1.03302	0	-0.54137	0	0.33941	0
275643	0.61090	0	-0.26524	0	0.15715	0
230357	0.91484	0	-0.66883	0	0.25521	0
261219	1.07594	0	-0.36041	0	0.29192	0
266424	0.97277	0	0.27072	0	0.19855	0
276777	0.88974	0	0.13610	0	0.24353	0
260940	0.90134	0.01472	-0.23316	0.02027	0.14469	0.00903

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
261231	1.06193	0	0.16600	0	0.22849	0
276550	1.08773	0	-0.06695	0	0.14699	0
229323	0.69203	0	0.10473	0	0.11841	0
283135	0.86404	0	-0.43425	0	0.20781	0
283072	0.73009	0	-0.72112	0	0.14706	0

Table H-34. 2011 MCAS: IRT Parameters for Polytomous Items – High School Biology

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
264697	1.01141	0	0.04920	0	0	0	1.57488	0	0.32583	0	-0.52616	0	-1.37455	0	0	0
276841	1.13882	0	0.75450	0	0	0	1.44686	0	0.45808	0	-0.30574	0	-1.59919	0	0	0
242854	1.03800	0	0.15974	0	0	0	1.93545	0	0.60498	0	-0.64947	0	-1.89096	0	0	0
285885	1.48652	0	0.54205	0	0	0	0.88942	0	0.26809	0	-0.27617	0	-0.88134	0	0	0
268466	0.95198	0	0.71781	0	0	0	2.06830	0	0.64790	0	-0.60714	0	-2.10907	0	0	0

Table H-35. 2011 MCAS: IRT Parameters for Dichotomous Items – High School Chemistry

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
208220	2.08873	0.31695	1.17411	0.05479	0.49943	0.01653
229666	1.41178	0	0.55344	0	0.27065	0
263581	0.88641	0	0.34157	0	0.20289	0
264323	1.23822	0	-0.00264	0	0.24472	0
260763	1.51325	0	0.37007	0	0.28244	0
261073	1.64551	0	0.88631	0	0.32011	0
258938	0.56967	0	0.23388	0	0.20939	0
261087	1.30169	0	1.05236	0	0.28140	0
244939	1.03337	0	1.13531	0	0.21547	0
275868	1.41701	0	1.34459	0	0.20318	0
206748	1.05409	0	0.65303	0	0.24463	0
261463	1.41603	0	-0.01760	0	0.22473	0
216965	1.26980	0	1.22602	0	0.18347	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
281918	1.21546	0	0.41474	0	0.17492	0
208270	1.52026	0	0.21946	0	0.18567	0
281311	0.59738	0	0.83401	0	0.24418	0
275853	1.01104	0	0.57977	0	0.21477	0
280892	1.08868	0	-0.07572	0	0.25365	0
260755	1.01188	0	0.85827	0	0.29396	0
246709	0.67332	0	0.54944	0	0.22990	0
261077	0.67232	0	0.36827	0	0.27632	0
273001	0.99620	0	-0.59258	0	0.29892	0
273213	0.90094	0	1.13548	0	0.47869	0
258958	1.35953	0	0.93056	0	0.28176	0
226985	1.61759	0	0.25542	0	0.09663	0
287968	0.83275	0	-0.56691	0	0.24384	0
260899	0.96831	0	-0.33767	0	0.26735	0
275864	0.79510	0	-0.45355	0	0.26215	0
264312	0.75728	0	-0.41268	0	0.22588	0
216945	2.11810	0	0.19331	0	0.27005	0
260766	1.30411	0	0.05942	0	0.22889	0
244759	1.20659	0	-0.78902	0	0.14267	0
287955	1.16775	0	0.87155	0	0.19362	0
280905	1.01169	0	0.60157	0	0.20961	0
260922	1.51330	0	0.26601	0	0.16023	0
274060	1.03376	0	0.76045	0	0.26549	0
273000	0.99318	0	0.15989	0	0.20536	0
206662	1.12929	0.09037	-0.44260	0.09165	0.15604	0.04629
258941	1.78994	0.16748	0.73886	0.04210	0.23862	0.01788
230569	0.76946	0.08306	-0.14853	0.16261	0.20071	0.06149

Table H-36. 2011 MCAS: IRT Parameters for Polytomous Items – High School Chemistry

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
254842	1.11999	0	0.04116	0	0	0	1.26091	0	0.21710	0	-0.40706	0	-1.07096	0	0	0
273069	1.14712	0	0.44901	0	0	0	1.01753	0	0.42208	0	-0.16338	0	-1.27624	0	0	0
281112	1.33920	0	0.42148	0	0	0	0.85683	0	0.05887	0	-0.20893	0	-0.70676	0	0	0
273022	1.48146	0.03869	0.84415	0.01912	0	0	1.35292	0.02888	0.38082	0.02628	-0.54209	0.03116	-1.19164	0.04439	0	0
281258	1.09914	0.02895	1.01669	0.02519	0	0	1.35749	0.03357	0.33188	0.03227	-0.42434	0.03786	-1.26503	0.05640	0	0

Table H-37. 2011 MCAS: IRT Parameters for Dichotomous Items – High School Introductory Physics

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
288373	0.86357	0	0.31688	0	0.53128	0
208378	0.81332	0	-1.00816	0	0.19158	0
280869	0.74555	0	-0.68461	0	0.25645	0
280949	1.11420	0	0.01397	0	0.24441	0
285644	1.32360	0	0.78061	0	0.21271	0
280450	0.82488	0	-0.72075	0	0.16141	0
280458	0.91606	0	0.03618	0	0.26995	0
280452	0.61770	0	0.46526	0	0.26432	0
261126	0.63297	0	-0.90295	0	0.24747	0
261114	0.99520	0	0.29335	0	0.21827	0
208492	1.19109	0	0.31703	0	0.14096	0
261147	0.59584	0.01238	-0.96258	0.02536	0	0
280762	0.54280	0	-1.21765	0	0.26276	0
207945	1.17860	0	-0.26098	0	0.36532	0
288369	1.68123	0	0.32323	0	0.28174	0
280878	0.82618	0.04719	0.82332	0.05131	0.49839	0.01268
280438	0.51787	0	-0.31399	0	0.28983	0
272658	0.52879	0	0.35771	0	0.22508	0
280462	0.62407	0	-0.11205	0	0.20627	0
280471	1.38926	0	0.57584	0	0.33893	0
264350	0.83988	0	0.65012	0	0.13630	0
288367	0.97525	0	-0.11576	0	0.15018	0
280858	1.27206	0	1.14840	0	0.49831	0
280793	1.36367	0	1.03155	0	0.28923	0
206567	0.74797	0	0.71238	0	0.23156	0
253604	1.09888	0	0.14775	0	0.33705	0
280808	0.61765	0	1.20554	0	0.32451	0
280851	0.99393	0	0.52874	0	0.27682	0
280958	1.54171	0	-0.02753	0	0.39586	0
272812	1.18372	0	0.51131	0	0.22186	0
285648	1.28149	0	-0.57703	0	0.20672	0
272656	1.17090	0	0.19666	0	0.19123	0
272735	1.48236	0	-0.04293	0	0.27533	0
280446	1.13769	0	0.13487	0	0.28286	0
241710	0.38981	0	-0.58066	0	0.20693	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
258364	0.82445	0	-0.55649	0	0.25476	0
288377	0.92928	0	0.26427	0	0.21214	0
235311	1.10277	0	-0.84473	0	0.34011	0
206596	0.82984	0	-0.49347	0	0.31580	0
272800	0.59214	0	-0.17243	0	0.20349	0

Table H-38. 2011 MCAS: IRT Parameters for Polytomous Items – High School Introductory Physics

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
280932	1.33853	0	0.39406	0	0	0	1.26907	0	0.41597	0	-0.32827	0	-1.35678	0	0	0
281908	1.50513	0	0.44174	0	0	0	1.04755	0	0.38648	0	-0.24319	0	-1.19084	0	0	0
235465	0.84720	0	1.02567	0	0	0	2.04516	0	0.11095	0	-0.57004	0	-1.58608	0	0	0
280881	1.54244	0	0.28654	0	0	0	1.30303	0	0.59698	0	0.09014	0	-1.99015	0	0	0
285649	1.46786	0	0.96079	0	0	0	1.10871	0	0.55524	0	-0.37758	0	-1.28638	0	0	0

Table H-39. 2011 MCAS: IRT Parameters for Dichotomous Items – High School Technology/Engineering

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
265079	1	0	-0.52917	0	0	0
260810	1	0	-0.22768	0	0	0
206613	1	0	-0.02730	0	0	0
281110	1	0	-0.27396	0	0	0
271591	1	0	0.22734	0	0	0
265041	1	0	-0.28350	0	0	0
273158	1	0	-0.12106	0	0	0
288402	1	0	-1.07064	0	0	0
271568	1	0	-0.29281	0	0	0
281411	1	0	0.06300	0	0	0
274648	1	0	0.02263	0	0	0
281433	1	0	0.37470	0	0	0
260808	1	0	-0.20380	0	0	0

continued

Item Number	Parameters and Measures of Standard Error					
	a	SE (a)	b	SE (b)	c	SE (c)
273149	1	0	0.09970	0	0	0
281381	1	0	-0.27261	0	0	0
275784	1	0	0.00879	0	0	0
281441	1	0	-0.07623	0	0	0
267220	1	0	-0.26534	0	0	0
209220	1	0	0.53212	0	0	0
221742	1	0	-0.26617	0	0	0
273098	1	0	-0.50804	0	0	0
251729	1	0	-0.59245	0	0	0
208956	1	0	-1.13367	0	0	0
206607	1	0	-0.00144	0	0	0
271578	1	0	-0.65671	0	0	0
271584	1	0	0.08885	0	0	0
260805	1	0	-0.20073	0	0	0
281458	1	0	-0.68857	0	0	0
265063	1	0	-0.65763	0	0	0
274581	1	0	0.19118	0	0	0
206609	1	0	-0.69200	0	0	0
273097	1	0	0.53553	0	0	0
274650	1	0	-0.38403	0	0	0
281399	1	0	0.34436	0	0	0
274561	1	0	-0.64083	0	0	0
221998	1	0	-0.01412	0	0	0
274646	1	0	-0.01327	0	0	0
281462	1	0	-0.26577	0	0	0
281378	1	0	0.39918	0	0	0
265067	1	0	-0.06832	0	0	0

Table H-40. 2011 MCAS: IRT Parameters for Polytomous Items – High School Technology/Engineering

Item Number	Parameters and Measures of Standard Error															
	a	SE (a)	b	SE (b)	c	SE (c)	D0	SE (D0)	D1	SE (D1)	D2	SE (D2)	D3	SE (D3)	D4	SE (D4)
265082	1	0	-0.22667	0	0	0	1.09909	0	0.37127	0	-0.37870	0	-1.09166	0	0	0
274660	1	0	0.53180	0	0	0	1.43449	0	0.34289	0	-0.33489	0	-1.44249	0	0	0
274633	1	0	0.02645	0	0	0	0.92466	0	0.34699	0	-0.17373	0	-1.09792	0	0	0
273124	1	0	0.56833	0	0	0	1.54123	0	0.62266	0	-0.58813	0	-1.57576	0	0	0
248687	1	0	0.94510	0	0	0	1.46106	0	0.45436	0	-0.43061	0	-1.48480	0	0	0