

# **APPENDIX E**

## **ITEM-LEVEL CLASSICAL STATISTICS**

**Table E-1. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 3**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
298228	MC	0.85	0.51	1
298229	MC	0.92	0.49	0
298230	MC	0.83	0.52	0
298231	MC	0.83	0.52	0
298236	MC	0.90	0.52	0
298240	MC	0.91	0.52	1
298241	SR	0.62	0.43	0
303620	MC	0.92	0.44	0
303624	MC	0.51	0.40	1
303625	MC	0.67	0.36	1
303626	MC	0.91	0.37	0
303629	MC	0.93	0.41	0
303634	SR	0.55	0.50	1
307180	MC	0.72	0.46	0
307183	MC	0.90	0.47	0
307187	MC	0.80	0.34	0
307190	MC	0.69	0.39	0
307192	MC	0.79	0.49	1
308791	MC	0.93	0.36	0
308793	MC	0.82	0.48	0
308794	MC	0.77	0.42	0
308795	MC	0.89	0.25	0
308797	MC	0.92	0.42	0
308799	MC	0.72	0.46	0
308807	MC	0.90	0.44	1
308808	MC	0.90	0.46	1
308811	MC	0.92	0.48	0
308812	MC	0.73	0.32	0
308814	SR	0.83	0.36	0
308817	SR	0.67	0.37	0
308862	MC	0.83	0.47	0
308864	MC	0.58	0.39	0
308866	MC	0.89	0.49	0
308867	MC	0.81	0.48	0
308868	MC	0.88	0.51	0
308873	MC	0.88	0.44	0
308876	MC	0.85	0.42	0
308879	MC	0.90	0.43	0
308880	MC	0.89	0.41	1
308883	MC	0.87	0.30	0
308893	OR	0.49	0.48	0

**Table E-2. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 4**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
298587	MC	0.70	0.39	0
298591	MC	0.93	0.38	0
298593	MC	0.76	0.31	0
298594	MC	0.89	0.42	0
298595	MC	0.85	0.37	0
298598	MC	0.94	0.40	0
298601	OR	0.52	0.48	0
307616	MC	0.71	0.33	0
307618	MC	0.56	0.33	0
307620	MC	0.76	0.49	1
307621	MC	0.70	0.37	1
307625	MC	0.75	0.47	1
307627	OR	0.42	0.58	1
308993	MC	0.85	0.36	0
308995	MC	0.81	0.47	0
308996	MC	0.93	0.35	0
309001	MC	0.94	0.33	0
309002	MC	0.88	0.40	0
309004	MC	0.90	0.39	0
309005	MC	0.94	0.38	0
309007	MC	0.91	0.34	0
309013	MC	0.93	0.32	0
309014	MC	0.93	0.36	1
309015	OR	0.48	0.53	0
312728	MC	0.84	0.45	0
312731	MC	0.62	0.40	0
312733	MC	0.71	0.39	0
312737	MC	0.72	0.36	0
312738	MC	0.90	0.30	0
312742	MC	0.94	0.45	0
312745	MC	0.78	0.46	0
312746	MC	0.54	0.38	0
312750	MC	0.84	0.40	1
312752	MC	0.95	0.37	0
312753	OR	0.49	0.53	0
312779	MC	0.73	0.43	1
312785	MC	0.84	0.42	1
312788	MC	0.52	0.32	1
312789	MC	0.86	0.41	1
312792	MC	0.70	0.36	1

**Table E-3. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 5**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
283311	MC	0.88	0.35	0
283312	MC	0.89	0.41	0
283314	MC	0.84	0.46	0
283323	MC	0.95	0.33	0
283324	MC	0.91	0.42	0
283325	MC	0.76	0.45	0
283339	MC	0.67	0.37	0
283358	MC	0.73	0.43	0
283363	MC	0.75	0.27	0
283370	MC	0.63	0.34	1
283382	OR	0.50	0.57	0
297171	MC	0.67	0.35	0
297172	MC	0.81	0.37	0
297174	MC	0.87	0.40	0
297177	MC	0.67	0.36	1
297178	MC	0.62	0.51	1
297181	MC	0.84	0.32	1
302376	MC	0.87	0.26	0
302377	MC	0.83	0.41	0
302382	MC	0.89	0.35	0
302385	MC	0.79	0.33	0
302386	MC	0.54	0.39	0
302388	OR	0.61	0.55	0
307257	MC	0.85	0.38	0
307262	MC	0.87	0.31	0
307264	MC	0.75	0.44	0
307276	MC	0.82	0.50	0
307278	MC	0.81	0.46	0
307279	MC	0.86	0.47	0
307281	MC	0.86	0.39	0
307282	MC	0.68	0.39	0
307288	MC	0.77	0.38	0
307289	MC	0.56	0.30	1
307290	OR	0.49	0.63	0
313033	MC	0.64	0.33	0
313036	MC	0.84	0.43	0
313039	MC	0.69	0.30	0
313040	MC	0.63	0.33	0
313046	MC	0.84	0.42	0
313048	OR	0.44	0.55	1

**Table E-4. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 6**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
302748	MC	0.96	0.36	0
302749	MC	0.71	0.35	0
302752	MC	0.69	0.42	0
302755	MC	0.79	0.39	0
302758	MC	0.82	0.39	0
302759	MC	0.64	0.35	0
302762	MC	0.81	0.36	0
302764	MC	0.93	0.39	0
302766	MC	0.88	0.43	0
302768	MC	0.86	0.43	0
302772	OR	0.58	0.61	0
302777	MC	0.72	0.51	0
302779	MC	0.77	0.40	0
302782	MC	0.77	0.39	0
302785	MC	0.76	0.36	0
302786	MC	0.76	0.37	0
302788	MC	0.82	0.48	1
302790	OR	0.43	0.64	1
303465	MC	0.59	0.31	0
303466	MC	0.90	0.33	0
303471	MC	0.87	0.47	0
303472	MC	0.67	0.45	0
303474	MC	0.88	0.38	0
303478	MC	0.88	0.46	0
303480	MC	0.82	0.40	0
303481	MC	0.78	0.51	0
303485	MC	0.83	0.26	0
303486	MC	0.73	0.38	1
303489	OR	0.58	0.65	0
308508	MC	0.56	0.22	0
308511	MC	0.93	0.42	0
308512	MC	0.87	0.34	0
308517	MC	0.93	0.36	0
308518	MC	0.94	0.45	0
308521	OR	0.64	0.57	0
312568	MC	0.79	0.27	0
312569	MC	0.87	0.32	0
312570	MC	0.83	0.43	0
312577	MC	0.82	0.47	0
312580	MC	0.91	0.39	0

**Table E-5. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 7**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
297189	MC	0.91	0.43	0
297191	MC	0.91	0.38	0
297192	MC	0.83	0.34	0
297195	MC	0.78	0.38	0
297198	MC	0.66	0.39	0
297202	MC	0.96	0.29	0
297207	MC	0.69	0.29	0
297211	MC	0.86	0.40	0
297214	OR	0.65	0.64	0
297219	MC	0.88	0.30	0
297224	MC	0.89	0.43	0
297226	MC	0.77	0.39	0
297228	MC	0.61	0.37	0
297233	MC	0.85	0.30	0
297238	MC	0.72	0.35	0
299682	MC	0.72	0.30	0
302924	MC	0.75	0.32	0
302927	MC	0.88	0.40	0
302929	MC	0.80	0.40	0
302932	MC	0.84	0.50	0
302933	MC	0.66	0.38	0
302935	MC	0.91	0.35	0
302936	MC	0.81	0.36	0
302938	MC	0.91	0.30	0
302939	MC	0.70	0.36	0
302944	MC	0.87	0.34	0
302946	OR	0.63	0.63	0
309098	MC	0.97	0.35	0
309104	MC	0.78	0.47	0
309109	MC	0.74	0.36	0
309112	MC	0.93	0.30	0
309113	MC	0.95	0.40	0
309114	OR	0.63	0.58	0
309755	MC	0.82	0.30	0
314021	MC	0.85	0.40	0
314025	MC	0.79	0.49	0
314029	MC	0.84	0.35	0
314031	MC	0.79	0.43	0
314034	MC	0.90	0.34	0
314035	OR	0.57	0.62	1

**Table E-6. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 8**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
293267	MC	0.80	0.36	0
293270	MC	0.84	0.38	0
293271	MC	0.87	0.38	0
293273	MC	0.62	0.35	0
293274	MC	0.76	0.28	0
293278	MC	0.79	0.25	0
293280	OR	0.56	0.61	0
297561	MC	0.92	0.31	0
297562	MC	0.93	0.45	0
297567	MC	0.80	0.47	0
297570	MC	0.91	0.38	0
297572	MC	0.71	0.41	0
297574	OR	0.62	0.65	0
302289	MC	0.92	0.40	0
302290	MC	0.85	0.39	0
302292	MC	0.78	0.41	0
302294	MC	0.78	0.36	0
302295	MC	0.90	0.44	0
302296	MC	0.78	0.30	0
302300	MC	0.70	0.28	0
302302	MC	0.85	0.48	0
302305	MC	0.66	0.31	0
302310	MC	0.67	0.29	0
302312	OR	0.65	0.65	0
303829	MC	0.92	0.41	0
303832	MC	0.86	0.47	0
303833	MC	0.76	0.49	0
303848	MC	0.85	0.46	0
303849	MC	0.86	0.28	0
303852	MC	0.68	0.50	0
303855	MC	0.75	0.37	0
303860	MC	0.75	0.42	0
303863	MC	0.65	0.44	0
303864	MC	0.91	0.39	0
303867	OR	0.62	0.63	0
307673	MC	0.73	0.46	0
307677	MC	0.70	0.42	0
307678	MC	0.59	0.41	0
307679	MC	0.80	0.42	0
307684	MC	0.89	0.46	0

**Table E-7. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
ELA – Grade 10**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
299602C	WR	0.88	0.69	0
299602T	WR	0.60	0.67	0
309154	MC	0.90	0.35	0
309155	MC	0.86	0.32	0
309158	MC	0.85	0.33	0
309161	MC	0.85	0.36	0
309162	MC	0.80	0.39	0
309166	MC	0.70	0.47	0
309175	MC	0.59	0.32	0
309180	MC	0.85	0.35	0
309181	OR	0.62	0.60	0
309542	MC	0.96	0.36	0
309551	MC	0.90	0.21	0
309553	MC	0.78	0.35	0
310286	MC	0.95	0.38	0
314403	MC	0.74	0.33	0
314404	MC	0.59	0.31	0
314406	MC	0.76	0.30	0
314408	MC	0.70	0.26	0
314417	OR	0.65	0.65	1
314531	MC	0.86	0.41	0
314535	MC	0.91	0.44	0
314537	MC	0.68	0.33	1
314540	MC	0.82	0.38	0
314578	MC	0.73	0.33	0
314580	MC	0.82	0.36	1
314581	MC	0.67	0.38	1
314584	MC	0.64	0.39	1
314672	MC	0.76	0.48	0
314677	MC	0.65	0.38	0
314681	MC	0.72	0.37	0
314684	MC	0.69	0.35	0
314687	MC	0.76	0.37	0
314693	MC	0.70	0.38	0
314698	MC	0.89	0.40	0
314699	MC	0.73	0.34	0
314701	OR	0.68	0.65	1
314827	MC	0.97	0.34	0
314828	MC	0.71	0.32	0
314836	MC	0.94	0.42	0
314837	MC	0.80	0.42	0
314838	OR	0.66	0.59	0



**Table E-8. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 3**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
202992	MC	0.83	0.55	0
207001	MC	0.88	0.40	0
207791	MC	0.86	0.35	0
207826	SA	0.88	0.27	0
212474	MC	0.84	0.49	0
225833	MC	0.80	0.37	0
227232	MC	0.76	0.47	3
227239	MC	0.77	0.41	1
253598	OR	0.77	0.54	0
260579	SA	0.83	0.45	1
260990	MC	0.88	0.39	0
293492	MC	0.88	0.40	0
293503	OR	0.72	0.55	0
293709	MC	0.64	0.44	1
297404	OR	0.77	0.49	0
297439	MC	0.84	0.56	0
297444	MC	0.56	0.24	1
297446	MC	0.91	0.49	1
297454	MC	0.79	0.47	1
297641	OR	0.69	0.52	0
298985	SA	0.84	0.45	0
300728	MC	0.73	0.24	0
303398	MC	0.74	0.51	1
306309	MC	0.91	0.47	0
306317	MC	0.79	0.34	0
306352	MC	0.93	0.32	0
306371	MC	0.46	0.41	1
309883	MC	0.88	0.34	0
309921	MC	0.80	0.41	0
310835	MC	0.79	0.57	1
310850	MC	0.45	0.14	0
310857	MC	0.52	0.29	0
310884	SA	0.65	0.53	0
310887	SA	0.74	0.32	0
310894	SA	0.52	0.45	0
314785	MC	0.45	0.24	0

**Table E-9. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 4**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
218879	MC	0.89	0.42	0
218905	MC	0.91	0.34	1
227367	MC	0.96	0.29	0
247598	MC	0.94	0.33	0
247705	MC	0.66	0.41	3
247750	MC	0.84	0.27	0
250416	MC	0.89	0.18	1
258221	MC	0.66	0.52	0
270627	MC	0.85	0.38	0
279771	MC	0.85	0.51	0
280085	MC	0.65	0.42	1
281504	MC	0.87	0.45	0
286768	MC	0.83	0.37	1
287236	MC	0.57	0.30	4
293453	MC	0.88	0.45	0
293514	SA	0.72	0.41	0
293812	OR	0.54	0.64	0
297613	MC	0.94	0.39	0
297625	MC	0.94	0.34	1
298082	MC	0.60	0.45	0
298098	MC	0.90	0.37	0
299681	SA	0.64	0.50	0
301796	MC	0.98	0.28	0
301804	MC	0.69	0.41	0
301819	MC	0.35	0.32	0
302489	OR	0.76	0.65	0
303326	MC	0.55	0.54	2
303333	MC	0.79	0.36	2
307030	SA	0.70	0.55	0
307039	OR	0.67	0.68	1
307065	SA	0.52	0.50	1
307072	SA	0.74	0.46	0
307073	MC	0.52	0.50	0
307077	MC	0.83	0.42	0
307311	SA	0.77	0.50	0
307322	OR	0.56	0.65	1
307325	MC	0.77	0.46	0
311532	MC	0.60	0.49	0
311536	MC	0.80	0.40	0
311541	MC	0.52	0.43	1
311555	MC	0.75	0.42	0
311558	MC	0.80	0.35	0

**Table E-10. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 5**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
204708	MC	0.91	0.38	0
206953	MC	0.77	0.47	0
217315	MC	0.89	0.35	0
217318	MC	0.86	0.51	0
221158	MC	0.74	0.51	0
221205	SA	0.90	0.32	0
248907	MC	0.82	0.25	0
260827	MC	0.86	0.48	0
262105	MC	0.92	0.42	0
262140	MC	0.84	0.42	0
272786	MC	0.65	0.48	0
272901	OR	0.71	0.75	0
280493	MC	0.63	0.54	0
280733	MC	0.86	0.37	0
287189	MC	0.94	0.40	0
287413	MC	0.38	0.24	0
287421	SA	0.85	0.45	0
293819	MC	0.71	0.40	0
298005	OR	0.70	0.57	0
298105	SA	0.70	0.42	1
301167	MC	0.46	0.22	0
301173	MC	0.67	0.48	1
301183	SA	0.70	0.46	0
301597	MC	0.69	0.53	0
303315	MC	0.79	0.45	0
303751	MC	0.87	0.32	0
303757	SA	0.72	0.56	0
303764	OR	0.55	0.74	1
303765	OR	0.65	0.64	1
305023	MC	0.65	0.48	0
306391	MC	0.71	0.41	0
306393	MC	0.69	0.39	1
306402	MC	0.61	0.45	1
306428	MC	0.56	0.40	0
306467	MC	0.67	0.37	0
310322	SA	0.70	0.40	0
311281	MC	0.77	0.45	0
311291	MC	0.72	0.43	0
311298	MC	0.80	0.40	0
311307	MC	0.75	0.53	0
311308	MC	0.51	0.44	0
311323	MC	0.72	0.46	0

**Table E-11. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 6**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
221674	MC	0.78	0.46	0
229005	MC	0.93	0.41	0
251299	MC	0.72	0.56	0
264407	MC	0.71	0.48	0
265884	MC	0.92	0.38	0
265893	MC	0.58	0.35	0
266113	MC	0.86	0.29	0
272172	MC	0.74	0.46	0
272174	MC	0.77	0.52	0
272290	MC	0.71	0.46	0
272300	MC	0.75	0.56	0
282128	MC	0.95	0.25	0
282152	MC	0.91	0.41	0
282262	MC	0.80	0.54	0
288380	MC	0.89	0.53	0
288383	MC	0.87	0.41	0
296382	MC	0.55	0.33	1
296396	OR	0.61	0.70	1
298145	MC	0.83	0.48	0
298150	SA	0.54	0.36	1
298156	SA	0.84	0.45	0
298163	MC	0.74	0.52	0
298264	MC	0.87	0.40	0
301221	MC	0.78	0.47	0
301511	OR	0.58	0.73	1
303723	SA	0.45	0.59	1
303724	OR	0.86	0.61	0
307345	MC	0.54	0.47	0
309778	MC	0.57	0.19	0
311651	MC	0.93	0.26	0
311656	MC	0.92	0.39	0
311659	SA	0.86	0.39	0
311679	MC	0.71	0.46	1
311687	SA	0.42	0.47	1
311690	MC	0.76	0.53	0
311694	OR	0.71	0.67	0
311703	MC	0.64	0.39	0
311708	SA	0.44	0.56	0
311709	MC	0.81	0.41	0
311713	MC	0.40	0.42	1
311714	MC	0.32	0.36	0
314808	MC	0.71	0.40	0

**Table E-12. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 7**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
205493	MC	0.80	0.56	0
208369	MC	0.64	0.34	0
208376	MC	0.86	0.50	0
219436	MC	0.76	0.46	0
228056	MC	0.86	0.56	0
250202	MC	0.76	0.45	0
250260	MC	0.76	0.36	0
250345	MC	0.69	0.52	0
259107	MC	0.70	0.55	1
261640	MC	0.81	0.46	0
272156	OR	0.49	0.72	1
272464	MC	0.76	0.49	0
281419	MC	0.59	0.50	0
281606	MC	0.74	0.55	0
281696	SA	0.87	0.49	0
282300	MC	0.69	0.38	0
290124	MC	0.77	0.41	0
296354	MC	0.49	0.40	0
296356	MC	0.57	0.49	0
298174	SA	0.78	0.42	0
298181	MC	0.88	0.45	0
298195	MC	0.50	0.33	0
298209	MC	0.65	0.46	0
298212	OR	0.65	0.76	1
298218	MC	0.60	0.45	0
301860	SA	0.68	0.42	0
302314	MC	0.79	0.45	0
302316	MC	0.70	0.48	1
302318	SA	0.75	0.57	0
303735	MC	0.66	0.49	0
306572	MC	0.54	0.50	0
306593	MC	0.70	0.47	0
306598	SA	0.91	0.41	0
306606	SA	0.76	0.44	0
306615	MC	0.62	0.45	0
306636	MC	0.53	0.46	0
306644	MC	0.73	0.50	0
311079	OR	0.61	0.68	0
311080	MC	0.74	0.51	0
311084	MC	0.66	0.57	0
311134	OR	0.55	0.74	0
311137	MC	0.58	0.58	0

**Table E-13. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 8**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
219562	MC	0.66	0.54	0
219585	MC	0.75	0.54	0
219587	MC	0.84	0.52	0
219616	MC	0.63	0.44	0
228149	MC	0.83	0.42	0
228379	SA	0.89	0.38	1
253753	MC	0.75	0.45	0
259251	MC	0.76	0.40	0
263846	MC	0.70	0.45	0
264725	MC	0.80	0.53	0
264788	MC	0.93	0.19	0
272928	MC	0.75	0.57	0
273670	MC	0.79	0.47	0
275024	MC	0.69	0.50	0
282314	MC	0.78	0.53	0
283255	MC	0.78	0.51	0
284149	MC	0.61	0.52	0
284880	MC	0.80	0.42	0
284910	MC	0.46	0.40	0
296114	SA	0.80	0.45	1
297516	MC	0.49	0.50	0
297651	SA	0.65	0.52	1
297663	SA	0.71	0.62	1
298039	OR	0.65	0.66	1
301477	SA	0.50	0.52	1
301485	OR	0.58	0.79	1
301689	MC	0.50	0.43	1
301713	OR	0.62	0.79	1
303788	MC	0.63	0.41	0
304572	MC	0.77	0.42	0
307424	MC	0.68	0.55	1
307428	MC	0.81	0.51	0
307497	MC	0.47	0.50	0
307500	MC	0.85	0.34	0
307521	MC	0.53	0.45	1
307553	MC	0.77	0.49	0
307585	MC	0.87	0.46	0
307594	MC	0.64	0.32	0
311409	MC	0.80	0.42	0
311439	MC	0.59	0.32	0
311451	SA	0.85	0.49	1
311465	OR	0.48	0.68	1

**Table E-14. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
Mathematics – Grade 10**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
250773	SA	0.64	0.54	1
281596	MC	0.75	0.38	0
287942	SA	0.60	0.56	2
288111	MC	0.78	0.60	0
293994	MC	0.70	0.48	0
294173	MC	0.57	0.41	0
294483	MC	0.84	0.47	0
294500	MC	0.73	0.40	0
299920	MC	0.74	0.50	0
300987	MC	0.79	0.44	0
301009	MC	0.87	0.42	1
301435	MC	0.72	0.44	0
303268	MC	0.73	0.39	0
303292	MC	0.83	0.52	0
303376	MC	0.81	0.31	0
303385	MC	0.82	0.46	0
303389	MC	0.68	0.34	0
303454	OR	0.59	0.70	1
303461	SA	0.53	0.36	1
306491	OR	0.55	0.71	1
306497	MC	0.39	0.26	0
306521	MC	0.79	0.46	0
306534	MC	0.73	0.38	0
308014	MC	0.65	0.47	0
308754	MC	0.77	0.30	0
308919	MC	0.55	0.42	0
311163	SA	0.82	0.56	1
311174	OR	0.61	0.76	2
311176	MC	0.68	0.49	0
311205	MC	0.63	0.39	0
311224	OR	0.64	0.72	1
311984	MC	0.82	0.49	0
312317	OR	0.57	0.72	2
312325	MC	0.78	0.25	0
312354	MC	0.68	0.44	0
312396	MC	0.73	0.44	0
313773	MC	0.85	0.39	0
313788	OR	0.53	0.73	1
313799	MC	0.70	0.34	0
313889	MC	0.89	0.34	0
313940	MC	0.74	0.48	0
314810	MC	0.75	0.35	0

**Table E-15. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
STE – Grade 5**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
263140	MC	0.72	0.46	0
264854	MC	0.86	0.32	0
264883	MC	0.57	0.42	0
273735	OR	0.40	0.56	0
273739	MC	0.73	0.34	0
273772	MC	0.85	0.38	0
273773	OR	0.61	0.61	1
281807	MC	0.84	0.39	0
281840	MC	0.79	0.32	0
288149	MC	0.87	0.26	0
288174	MC	0.55	0.26	0
289451	MC	0.71	0.42	0
289469	MC	0.39	0.16	0
289684	MC	0.76	0.45	0
291042	MC	0.87	0.26	0
291222	MC	0.68	0.37	0
291235	MC	0.79	0.51	0
291332	MC	0.69	0.39	0
291342	MC	0.60	0.43	0
291367	MC	0.85	0.42	0
291384	MC	0.85	0.36	0
291419	MC	0.82	0.32	0
291597	OR	0.70	0.64	1
294436	MC	0.45	0.38	1
294447	MC	0.74	0.38	0
294464	MC	0.78	0.42	0
294496	MC	0.68	0.43	0
294512	MC	0.69	0.43	0
294556	OR	0.35	0.53	1
299401	MC	0.55	0.44	0
299496	MC	0.50	0.28	0
304476	MC	0.70	0.40	1
304599	MC	0.65	0.34	0
304603	MC	0.83	0.38	0
304609	MC	0.70	0.17	0
304682	MC	0.72	0.41	0
309486	MC	0.75	0.46	0
309962	MC	0.73	0.34	0
309966	MC	0.82	0.46	0
309988	MC	0.70	0.42	0
316896	MC	0.54	0.42	0
316897	MC	0.79	0.18	0



**Table E-16. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
STE – Grade 8**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
229398	MC	0.71	0.42	0
252744	MC	0.66	0.41	0
265218	MC	0.66	0.34	0
265228	MC	0.88	0.32	0
265230	MC	0.44	0.17	0
265300	MC	0.71	0.26	0
273927	MC	0.57	0.36	0
273978	MC	0.69	0.50	0
282004	MC	0.51	0.28	0
282025	MC	0.37	0.32	0
282026	MC	0.54	0.37	0
282055	MC	0.54	0.34	0
282069	MC	0.47	0.32	0
288322	MC	0.56	0.37	0
289641	MC	0.70	0.35	0
289724	MC	0.86	0.34	0
291708	MC	0.76	0.46	0
291711	MC	0.78	0.26	0
291810	MC	0.93	0.29	0
291822	MC	0.80	0.47	0
291825	MC	0.47	0.37	0
291864	MC	0.76	0.49	0
291999	MC	0.81	0.43	0
292041	OR	0.51	0.60	2
299004	OR	0.53	0.65	1
299394	MC	0.69	0.43	0
299412	MC	0.59	0.38	0
299414	MC	0.46	0.40	0
299429	MC	0.81	0.39	0
299435	MC	0.72	0.45	0
299453	MC	0.80	0.42	1
299469	MC	0.89	0.32	0
299480	MC	0.60	0.29	0
299482	MC	0.76	0.28	0
299510	OR	0.40	0.55	1
304548	MC	0.85	0.46	0
304691	OR	0.62	0.65	2
309785	MC	0.70	0.48	0
310254	MC	0.55	0.24	0
310260	MC	0.80	0.25	0
310270	MC	0.64	0.41	0
310326	MC	0.60	0.43	0

**Table E-17. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
High School Biology**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
261212	MC	0.87	0.42	0
276542	MC	0.84	0.44	0
279799	MC	0.68	0.40	0
281144	MC	0.84	0.39	0
283173	MC	0.57	0.35	0
289126	OR	0.41	0.66	2
289264	MC	0.66	0.52	0
290013	MC	0.74	0.45	0
290928	MC	0.74	0.44	0
290951	MC	0.77	0.31	0
290971	MC	0.58	0.43	0
290985	MC	0.74	0.35	0
294761	MC	0.74	0.43	0
296121	MC	0.70	0.37	0
296151	MC	0.80	0.45	0
299750	MC	0.77	0.34	0
299800	MC	0.73	0.48	0
299856	MC	0.57	0.39	0
299859	MC	0.61	0.41	0
299860	MC	0.70	0.33	0
299865	MC	0.83	0.45	0
300665	MC	0.92	0.39	0
301333	MC	0.86	0.38	0
301334	MC	0.81	0.44	0
301342	MC	0.88	0.41	0
301354	OR	0.48	0.70	2
301371	MC	0.78	0.41	0
301386	MC	0.71	0.44	0
301396	MC	0.67	0.28	0
304272	OR	0.40	0.72	2
304873	MC	0.85	0.36	0
304882	MC	0.81	0.29	0
304899	MC	0.74	0.42	0
304925	MC	0.86	0.42	0
304938	MC	0.77	0.47	0
304944	MC	0.83	0.31	0
304985	MC	0.78	0.34	0
305800	MC	0.84	0.43	0
310079	MC	0.89	0.32	0
310086	MC	0.93	0.37	0
310212	MC	0.92	0.28	0
310755	MC	0.75	0.38	0
310764	OR	0.51	0.70	1
312655	MC	0.61	0.32	0
314638	OR	0.52	0.69	2

**Table E-18. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
High School Chemistry**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
208259	MC	0.88	0.38	
244914	MC	0.80	0.51	
246788	MC	0.88	0.49	
246829	MC	0.68	0.40	0
246844	MC	0.86	0.44	
252681	MC	0.56	0.41	1
258936	MC	0.62	0.46	0
258948	MC	0.86	0.34	
260896	MC	0.64	0.32	0
261167	MC	0.48	0.40	
261170	MC	0.71	0.46	0
261461	MC	0.82	0.43	
261486	OR	0.48	0.61	2
273193	MC	0.40	0.40	0
275886	MC	0.59	0.48	0
281183	MC	0.55	0.24	1
281315	MC	0.75	0.49	0
281321	MC	0.52	0.37	0
281922	MC	0.68	0.45	0
287291	MC	0.61	0.52	0
287950	MC	0.62	0.29	
288229	MC	0.59	0.49	0
288234	OR	0.63	0.65	2
288237	OR	0.33	0.69	4
294590	MC	0.73	0.45	0
294598	MC	0.69	0.51	
294649	MC	0.52	0.27	
294670	MC	0.65	0.40	0
294698	MC	0.72	0.49	
294705	MC	0.68	0.57	0
294712	MC	0.78	0.37	0
294715	MC	0.67	0.45	0
298318	MC	0.44	0.38	
298979	MC	0.82	0.42	
299698	MC	0.71	0.46	0
300073	MC	0.81	0.39	0
300076	MC	0.78	0.44	0
300095	MC	0.79	0.40	
300129	MC	0.75	0.42	0
300141	MC	0.77	0.40	
300145	OR	0.58	0.74	4
300170	MC	0.77	0.42	0
304361	MC	0.87	0.31	
305195	MC	0.55	0.59	1
309496	OR	0.40	0.75	3

**Table E-19. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
High School Introductory Physics**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
246576	OR	0.52	0.63	2
261148	MC	0.77	0.48	0
272741	MC	0.47	0.46	0
273427	MC	0.67	0.42	0
273436	MC	0.54	0.40	0
280453	MC	0.62	0.39	0
280455	MC	0.59	0.42	0
280470	MC	0.57	0.42	0
280963	MC	0.67	0.36	0
287218	MC	0.60	0.44	0
287224	OR	0.54	0.65	1
287371	MC	0.81	0.33	0
287389	MC	0.56	0.26	0
287403	MC	0.54	0.52	0
287404	OR	0.38	0.72	3
293939	MC	0.71	0.54	0
293950	OR	0.51	0.60	3
293973	MC	0.68	0.48	0
295846	MC	0.58	0.44	0
295865	MC	0.59	0.24	0
297417	MC	0.68	0.48	0
299384	OR	0.38	0.62	3
301717	MC	0.86	0.36	0
301731	MC	0.86	0.49	0
301772	MC	0.69	0.44	0
301785	MC	0.73	0.36	0
301786	MC	0.83	0.43	0
301789	MC	0.81	0.38	0
304763	MC	0.72	0.35	0
304782	MC	0.68	0.52	0
305440	MC	0.76	0.49	0
305478	MC	0.74	0.42	0
305493	MC	0.80	0.36	0
305495	MC	0.67	0.50	0
305514	MC	0.70	0.42	0
310433	MC	0.80	0.37	0
310455	MC	0.88	0.39	0
310486	MC	0.72	0.54	0
310499	MC	0.81	0.43	0
311023	MC	0.81	0.50	0
311056	MC	0.78	0.30	0
311313	MC	0.90	0.37	0
311371	MC	0.81	0.42	0
313006	MC	0.75	0.42	0
314840	MC	0.79	0.39	0

**Table E-20. 2016 MCAS: Item-Level Classical Test Theory Statistics –  
High School Technology/Engineering**

Item		Difficulty	Discrimination	Percent Omitted
Number	Type			
206772	MC	0.63	0.51	0
208126	MC	0.68	0.41	0
221684	MC	0.66	0.48	0
268467	MC	0.94	0.33	0
271562	MC	0.49	0.42	0
273146	MC	0.66	0.32	1
279914	OR	0.61	0.55	1
281930	MC	0.85	0.18	0
283463	MC	0.83	0.36	0
287802	MC	0.68	0.13	0
289975	MC	0.66	0.31	0
290764	MC	0.43	0.36	0
293186	MC	0.58	0.36	0
294343	MC	0.78	0.36	0
294344	MC	0.67	0.44	0
294349	MC	0.58	0.32	0
294386	MC	0.57	0.26	0
294402	MC	0.71	0.48	0
294413	MC	0.55	0.31	0
297426	MC	0.74	0.45	0
299265	MC	0.75	0.44	0
299306	OR	0.41	0.62	2
299351	MC	0.67	0.31	0
299352	MC	0.78	0.24	0
300263	OR	0.38	0.35	1
300267	MC	0.85	0.30	0
300286	MC	0.54	0.28	0
300288	MC	0.90	0.37	
300295	MC	0.68	0.45	0
300305	MC	0.55	0.31	0
300330	MC	0.41	0.17	0
305095	OR	0.46	0.61	2
305105	MC	0.77	0.51	0
305143	MC	0.61	0.38	0
305145	MC	0.61	0.38	0
305151	MC	0.48	0.45	0
306801	MC	0.79	0.43	0
306803	MC	0.64	0.30	0
306842	OR	0.40	0.57	3
309909	MC	0.83	0.19	0
310010	MC	0.71	0.44	0
310015	MC	0.56	0.27	0
310038	MC	0.88	0.29	0
310045	MC	0.61	0.28	0
310314	MC	0.60	0.38	0

**Table E-21. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – ELA**

Grade	Item		Difficulty	Discrimination
	Number	Type		
3	comp1	OR	0.59	0.42
	comp2	OR	0.59	0.43
	comp3	OR	0.59	0.44
	ind1	OR	0.97	0.49
	ind2	OR	0.96	0.55
	ind3	OR	0.87	0.42
	sk1	OR	0.98	0.32
	sk2	OR	0.98	0.35
	sk3	OR	0.55	0.53
4	comp1	OR	0.59	0.34
	comp2	OR	0.59	0.34
	comp3	OR	0.59	0.37
	ind1	OR	0.97	0.42
	ind2	OR	0.97	0.48
	ind3	OR	0.88	0.39
	sk1	OR	0.98	0.36
	sk2	OR	0.98	0.37
	sk3	OR	0.56	0.45
5	comp1	OR	0.59	0.35
	comp2	OR	0.59	0.35
	comp3	OR	0.59	0.41
	ind1	OR	0.97	0.45
	ind2	OR	0.96	0.51
	ind3	OR	0.88	0.36
	sk1	OR	0.98	0.31
	sk2	OR	0.98	0.28
	sk3	OR	0.58	0.54
6	comp1	OR	0.60	0.24
	comp2	OR	0.59	0.27
	comp3	OR	0.59	0.31
	ind1	OR	0.97	0.41
	ind2	OR	0.96	0.49
	ind3	OR	0.89	0.36
	sk1	OR	0.98	0.29
	sk2	OR	0.98	0.25
	sk3	OR	0.59	0.51
7	comp1	OR	0.60	0.35
	comp2	OR	0.59	0.38
	comp3	OR	0.59	0.39
	ind1	OR	0.97	0.37
	ind2	OR	0.96	0.44
	ind3	OR	0.90	0.36
	sk1	OR	0.98	0.31
	sk2	OR	0.98	0.38
	sk3	OR	0.60	0.53
8	comp1	OR	0.59	0.38
	comp2	OR	0.59	0.37

continued

Grade	Item		Difficulty	Discrimination
	Number	Type		
8	comp3	OR	0.59	0.38
	ind1	OR	0.96	0.44
	ind2	OR	0.96	0.55
	ind3	OR	0.90	0.42
	sk1	OR	0.98	0.36
	sk2	OR	0.97	0.38
	sk3	OR	0.58	0.52
HS	comp1	OR	0.59	0.35
	comp2	OR	0.59	0.34
	comp3	OR	0.58	0.40
	ind1	OR	0.95	0.40
	ind2	OR	0.95	0.46
	ind3	OR	0.87	0.42
	sk1	OR	0.97	0.30
	sk2	OR	0.97	0.37
	sk3	OR	0.56	0.50

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts

**Table E-22. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – Mathematics**

Grade	Item		Difficulty	Discrimination
	Number	Type		
3	comp1	OR	0.59	0.57
	comp3	OR		
	comp5	OR	0.59	0.57
	ind1	OR	0.96	0.76
	ind3	OR		
	ind5	OR	0.97	0.75
	sk1	OR	0.98	0.60
	sk3	OR		
	sk5	OR	0.98	0.61
4	comp1	OR	0.59	0.54
	comp2	OR		
	comp3	OR	0.59	0.57
	ind1	OR	0.96	0.71
	ind2	OR		
	ind3	OR	0.97	0.68
	sk1	OR	0.98	0.51
	sk2	OR		
5	sk3	OR	0.98	0.54
	comp2	OR	0.59	0.60
	comp3	OR	0.59	0.56
	comp6	OR		
	ind2	OR	0.96	0.75
	ind3	OR	0.97	0.77
	ind6	OR		

continued

Grade	Item		Difficulty	Discrimination
	Number	Type		
5	sk2	OR	0.98	0.58
	sk3	OR	0.99	0.54
	sk6	OR		
6	comp1	OR	0.59	0.66
	comp2	OR	0.59	0.68
	comp4	OR		
	ind1	OR	0.97	0.67
	ind2	OR	0.97	0.65
	ind4	OR		
	sk1	OR	0.98	0.53
	sk2	OR	0.99	0.54
	sk4	OR		
7	comp1	OR	0.59	0.61
	comp3	OR		
	comp4	OR	0.60	0.58
	ind1	OR	0.97	0.67
	ind3	OR		
	ind4	OR	0.97	0.70
	sk1	OR	0.98	0.57
	sk3	OR		
	sk4	OR	0.98	0.56
8	comp2	OR	0.58	0.62
	comp3	OR		
	comp4	OR	0.59	0.59
	ind2	OR	0.96	0.68
	ind3	OR		
	ind4	OR	0.96	0.69
	sk2	OR	0.97	0.60
	sk3	OR		
HS	sk4	OR	0.98	0.55
	comp1	OR	0.58	0.43
	comp2	OR	0.59	0.43
	comp3	OR	0.59	0.36
	comp4	OR	0.58	0.46
	comp5	OR	0.58	0.41
	ind1	OR	0.96	0.40
	ind2	OR	0.96	0.49
	ind3	OR	0.96	0.50
	ind4	OR	0.95	0.56
	ind5	OR	0.96	0.48
	sk1	OR	0.97	0.46
	sk2	OR	0.97	0.47
	sk3	OR	0.98	0.38
	sk4	OR	0.97	0.50
sk5	OR	0.97	0.43	

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts



**Table E-23. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – STE**

Grade	Item		Difficulty	Discrimination
	Number	Type		
5	comp1	OR	0.59	0.43
	comp2	OR	0.59	0.47
	comp3	OR	0.59	0.46
	comp4	OR	0.59	0.44
	ind1	OR	0.97	0.57
	ind2	OR	0.97	0.59
	ind3	OR	0.97	0.57
	ind4	OR	0.98	0.36
	sk1	OR	0.98	0.45
	sk2	OR	0.99	0.43
	sk3	OR	0.98	0.45
	sk4	OR	0.99	0.22
8	comp1	OR	0.59	0.38
	comp2	OR	0.59	0.40
	comp3	OR	0.59	0.33
	comp4	OR	0.59	0.37
	ind1	OR	0.97	0.47
	ind2	OR	0.97	0.48
	ind3	OR	0.97	0.52
	ind4	OR	0.97	0.43
	sk1	OR	0.98	0.40
	sk2	OR	0.98	0.43
	sk3	OR	0.98	0.35
	sk4	OR	0.98	0.40

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts

**Table E-24. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – High School Biology**

Item	Type	Difficulty	Discrimination
comp1	OR	0.59	0.40
comp2	OR	0.59	0.38
comp3	OR	0.59	0.41
comp4	OR		
ind1	OR	0.96	0.42
ind2	OR	0.97	0.45
ind3	OR	0.96	0.54
ind4	OR		
sk1	OR	0.97	0.35
sk2	OR	0.97	0.38
sk3	OR	0.97	0.43
sk4	OR		

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts

**Table E-25. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – High School Chemistry**

Item		Difficulty	Discrimination
<i>Number</i>	<i>Type</i>		
comp1	OR	0.59	0.04
comp2	OR	0.59	0.04
comp3	OR	0.59	0.26
ind1	OR	0.93	0.40
ind2	OR	0.90	0.50
ind3	OR	0.92	0.57
sk1	OR	0.92	0.25
sk2	OR	0.95	0.29
sk3	OR	0.91	0.57

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts

**Table E-26. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – High School Introductory Physics**

Item		Difficulty	Discrimination
<i>Number</i>	<i>Type</i>		
comp1	OR	0.59	0.68
comp2	OR	0.59	0.71
comp3	OR	0.58	0.73
ind1	OR	0.93	0.44
ind2	OR	0.93	0.49
ind3	OR	0.93	0.50
sk1	OR	0.94	0.55
sk2	OR	0.90	0.67
sk3	OR	0.90	0.60

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts

**Table E-27. 2016 MCAS-Alt: Item-Level Classical Test Theory Statistics – High School Technology/Engineering**

Item		Difficulty	Discrimination
<i>Number</i>	<i>Type</i>		
comp1	OR	0.57	0.63
comp2	OR	0.57	0.47
comp3	OR	0.57	0.56
ind1	OR	0.93	0.67
ind2	OR	0.93	0.56
ind3	OR	0.92	0.68
sk1	OR	0.95	0.49
sk2	OR	0.95	0.40
sk3	OR	0.97	0.59

COMP = level of complexity; IND = independence;  
SK = demonstration of skills and concepts