

APPENDIX O

INTERRATER CONSISTENCY

**Table O-1. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics
by Grade – ELA**

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	292692	5	6,696	61.02	36.83	0.73	1.88
	301546	3	6,621	77.90	21.24	0.65	0.86
	294033	3	6,618	86.85	12.90	0.80	0.24
	297091	3	6,657	81.30	18.51	0.75	0.20
	297092	3	6,612	75.94	23.44	0.67	0.62
4	298601	5	6,679	63.95	34.74	0.72	1.15
	302610	5	6,655	59.10	37.55	0.74	2.95
	291174	5	6,654	68.08	31.11	0.80	0.69
	298700	5	6,679	66.99	31.34	0.74	1.45
	287980T	6	66,455	67.18	31.89	0.78	1.56
	287980C	4	66,455	68.82	30.34	0.69	1.56
5	302388	5	6,767	59.95	37.49	0.65	2.01
	283382	5	6,764	54.61	39.93	0.67	4.78
	283516	5	6,772	61.62	34.38	0.69	3.54
	286706	5	6,790	59.01	38.32	0.70	2.11
6	297954	5	6,761	56.86	40.08	0.66	2.43
	303489	5	6,631	60.22	37.72	0.71	1.82
	302790	5	6,631	60.28	35.65	0.80	3.66
	303199	5	6,688	62.29	36.36	0.74	1.08
7	305031T	6	65,954	66.54	32.59	0.71	1.14
	305031C	4	65,954	73.31	26.25	0.67	1.14
	304146	5	6,663	61.77	36.15	0.71	1.64
	285675	5	6,644	64.96	33.49	0.80	1.38
	285633	5	6,617	60.00	36.35	0.78	3.16
	280092	5	6,582	54.27	40.87	0.71	4.41
8	271621	5	6,618	56.94	40.33	0.73	2.13
	302312	5	6,945	53.56	41.90	0.71	3.77
	291463	5	6,804	58.33	38.62	0.75	2.44
	303867	5	6,589	63.48	33.46	0.73	2.40
10	302690	5	66,173	60.67	37.28	0.74	1.51
	292414	5	66,073	65.18	32.62	0.75	1.75
	299038	5	66,696	62.50	36.27	0.74	0.98
	299622T	6	65,804	67.52	31.78	0.65	0.95
	299622C	4	65,804	75.01	24.62	0.61	0.95
	304095	5	66,564	60.63	37.74	0.67	1.31

**Table O-2. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics
by Grade – Mathematics**

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	260574	2	6,687	97.76	2.24	0.92	0.00
	293506	3	6,694	84.79	13.25	0.81	1.94
	297497	2	6,663	98.29	1.71	0.96	0.00

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	300056	2	6,675	98.65	1.35	0.97	0.00
	297641	3	6,692	94.13	5.78	0.93	0.09
	300744	2	6,666	96.95	3.05	0.93	0.00
	303815	3	6,698	85.86	13.60	0.88	0.54
	260581	2	6,686	98.22	1.78	0.95	0.00
	297639	2	6,671	95.05	4.95	0.90	0.00
	297442	3	6,656	93.92	5.57	0.94	0.51
4	293508	2	6,745	99.04	0.96	0.98	0.00
	302480	2	6,692	98.33	1.67	0.96	0.00
	302407	2	6,646	90.40	9.60	0.81	0.00
	302495	5	6,724	76.55	20.97	0.91	2.45
	227192	5	6,799	82.94	10.58	0.92	6.02
	258228	2	6,738	98.80	1.20	0.96	0.00
	297983	2	6,737	95.06	4.94	0.86	0.00
	279788	2	6,720	98.81	1.19	0.96	0.00
	303336	5	6,796	74.06	24.60	0.88	1.32
	304983	5	6,702	80.47	16.11	0.94	3.37
5	221207	2	6,822	98.71	1.29	0.96	0.00
	303755	2	6,779	98.35	1.65	0.96	0.00
	248878	2	6,815	98.72	1.28	0.95	0.00
	272901	5	6,808	83.67	14.86	0.95	1.45
	303763	5	6,833	87.06	10.13	0.96	2.77
	207514	2	6,787	99.04	0.96	0.97	0.00
	280746	2	6,782	96.23	3.77	0.92	0.00
	221205	2	6,800	99.51	0.49	0.97	0.00
	290254	5	6,839	88.70	8.44	0.93	2.84
	272880	5	6,811	85.42	13.49	0.92	1.04
6	296392	5	6,791	87.31	10.78	0.93	1.88
	229029	2	6,808	99.38	0.62	0.96	0.00
	294266	2	6,808	98.46	1.54	0.97	0.00
	301235	2	6,793	98.04	1.96	0.95	0.00
	301248	5	6,809	87.69	10.34	0.92	1.91
	217663	5	6,797	88.85	9.39	0.95	1.72
	290248	2	6,821	99.33	0.67	0.99	0.00
	303717	2	6,816	99.37	0.63	0.98	0.00
	296387	2	6,762	98.74	1.26	0.97	0.00
	282255	5	6,791	94.15	5.52	0.96	0.32
7	227953	2	6,985	99.47	0.53	0.97	0.00
	282224	2	6,783	97.14	2.86	0.94	0.00
	239637	2	6,955	99.19	0.81	0.98	0.00
	289859	5	6,876	88.23	10.83	0.94	0.92
	302340	5	6,846	70.71	26.09	0.88	3.02
	303701	2	6,972	98.82	1.18	0.96	0.00
	295755	2	6,897	98.39	1.61	0.92	0.00
	302322	2	6,868	98.18	1.82	0.96	0.00
	301865	5	6,907	85.02	12.12	0.94	2.74
	288736	5	6,896	84.03	13.50	0.95	2.45

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
8	296085	2	6,935	98.85	1.15	0.97	0.00
	253790	2	6,913	99.39	0.61	0.98	0.00
	228379	2	6,909	98.35	1.65	0.91	0.00
	301484	5	6,873	85.55	13.09	0.95	1.34
	303350	5	6,885	83.72	14.38	0.93	1.83
	301700	2	6,879	98.43	1.57	0.97	0.00
	297663	2	6,921	98.84	1.16	0.97	0.00
	301703	2	6,889	98.52	1.48	0.97	0.00
	285090	5	6,904	93.90	4.92	0.96	1.17
	310218	5	6,823	75.80	22.25	0.91	1.76
	10	287743	2	66,553	98.47	1.53	0.97
288133		2	68,318	99.54	0.46	0.99	0.00
303397		5	68,182	91.79	7.86	0.97	0.35
304335		2	67,352	99.03	0.97	0.98	0.00
258803		2	68,711	99.17	0.83	0.98	0.00
284087		5	67,742	84.37	14.48	0.95	1.13
288095		5	67,190	74.96	23.42	0.84	1.49
301488		5	68,608	88.92	9.60	0.96	1.45
287900		5	67,213	92.23	6.44	0.98	1.30
301254		5	68,155	78.72	20.49	0.86	0.72

Table O-3. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics by Grade – STE

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
5	288173	5	6,929	77.36	17.49	0.90	4.65
	294542	5	6,871	63.73	32.94	0.79	2.98
	288179	5	6,901	76.31	21.85	0.88	1.80
	288156	5	6,890	66.78	28.74	0.85	4.38
8	252715	5	6,872	59.88	37.05	0.80	2.63
	293815	5	6,915	82.44	16.27	0.88	1.26
	288309	5	7,050	64.58	30.09	0.82	4.75
	294112	5	7,022	68.04	29.19	0.84	2.63

Table O-4. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Biology

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
279504	5	47,269	57.90	35.06	0.81	5.29
281196	5	46,932	73.98	23.91	0.90	1.92
281157	5	47,988	73.32	25.18	0.85	1.37
299793	5	48,417	81.69	17.11	0.94	1.13
296812	5	47,181	73.93	24.05	0.90	1.81

Table O-5. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Chemistry

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
298326	5	989	68.35	29.32	0.87	2.22
260796	5	1,013	58.34	35.93	0.78	5.03
244944	5	999	77.58	21.02	0.92	1.30
299725	5	960	67.50	30.42	0.86	1.46
294709	5	1,009	77.01	21.31	0.92	1.68

Table O-6. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Introductory Physics

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
216428	5	15,320	79.86	19.29	0.92	0.79
304275	5	15,202	69.51	28.82	0.88	1.57
287332	5	15,517	70.45	27.38	0.81	1.89
293879	5	15,128	80.30	18.92	0.89	0.78
294258	5	15,525	71.14	25.80	0.88	2.93

Table O-7. 2014 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Technology/Engineering

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
296473	5	2,311	59.50	36.43	0.69	3.59
288406	5	2,213	79.35	18.57	0.94	2.08
294379	5	2,259	66.45	29.79	0.75	3.45
290850	5	2,255	69.53	27.36	0.75	2.79
294425	5	2,301	72.49	25.38	0.85	2.00

Table O-8. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics by Grade – ELA

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	comp1	5	234	97.44	1.28	0.72	5.56
	comp2	5	235	99.15	0.85	0.94	2.55
	ind1	4	209	99.52	0.48	0.98	2.39
	ind2	4	185	97.84	2.16	0.94	3.24
	sk1	4	209	99.52	0.48	0.97	1.91
	sk2	4	185	98.92	1.08	0.97	2.16
4	comp1	5	259	97.68	0.39	0.75	6.95
	comp2	5	261	99.23	0.77	0.92	4.21
	comp3	5	261	97.70	0.38	0.66	5.36

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
4	ind1	4	224	99.55	0.45	0.98	1.34
	ind2	4	198	99.49	0.51	0.98	1.52
	ind3	4	227	99.56	0.44	0.99	3.52
	sk1	4	224	100.00	0.00	1.00	0.89
	sk2	4	198	100.00	0.00	1.00	1.01
	sk3	4	227	100.00	0.00	1.00	2.64
5	comp1	5	396	95.96	0.51	0.53	7.32
	comp2	5	395	97.47	0.76	0.52	5.82
	ind1	4	343	99.71	0.29	0.99	1.75
	ind2	4	310	98.71	1.29	0.97	5.16
	sk1	4	343	98.83	1.17	0.94	2.33
	sk2	4	310	99.68	0.32	0.98	3.87
6	comp1	5	239	97.91	1.26	0.78	5.44
	comp2	5	239	97.07	1.26	0.41	5.86
	ind1	4	200	100.00	0.00	1.00	4.00
	ind2	4	154	99.35	0.65	0.99	4.55
	sk1	4	200	100.00	0.00	1.00	1.50
	sk2	4	154	99.35	0.65	0.96	1.95
7	comp1	5	325	99.38	0.31	0.91	2.77
	comp2	5	329	98.78	0.30	0.70	3.65
	comp3	5	324	98.15	1.23	0.71	3.70
	ind1	4	291	99.31	0.69	0.98	3.44
	ind2	4	209	99.04	0.96	0.96	3.83
	ind3	4	287	99.65	0.35	0.99	2.44
	sk1	4	291	99.66	0.34	0.98	2.41
	sk2	4	209	99.04	0.96	0.97	2.39
	sk3	4	287	99.65	0.35	0.98	1.05
8	comp1	5	361	98.06	1.11	0.74	4.16
	comp2	5	363	99.17	0.83	0.90	3.31
	ind1	4	304	99.34	0.66	0.96	4.93
	ind2	4	244	100.00	0.00	1.00	5.33
	sk1	4	304	98.68	1.32	0.94	3.95
	sk2	4	244	98.77	1.23	0.96	3.69
10	comp1	5	390	96.15	1.79	0.60	9.74
	comp2	5	394	96.45	1.27	0.54	8.88
	comp3	5	390	97.95	1.03	0.76	8.21
	ind1	4	310	98.39	1.61	0.96	7.10
	ind2	4	257	99.61	0.00	0.96	5.06
	ind3	4	312	99.68	0.32	0.99	5.13
	sk1	4	310	97.74	2.26	0.85	8.06
	sk2	4	257	99.61	0.39	0.99	4.67
	sk3	4	312	99.04	0.96	0.96	5.13

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

**Table O-9. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics
by Grade – Mathematics**

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	comp1	5	234	97.44	2.56	0.77	3.85
	comp5	5	234	96.58	2.14	0.60	4.27
	ind1	4	204	98.53	1.47	0.96	2.94
	ind5	4	203	98.52	1.48	0.96	2.96
	sk1	4	204	99.51	0.49	0.97	2.45
	sk5	4	203	100.00	0.00	1.00	1.48
4	comp1	5	247	98.38	0.81	0.75	4.86
	comp3	5	245	99.18	0.41	0.84	2.86
	ind1	4	211	98.58	1.42	0.95	5.21
	ind3	4	223	99.10	0.90	0.97	3.59
	sk1	4	211	99.05	0.95	0.95	3.79
	sk3	4	223	99.10	0.90	0.88	3.14
5	comp2	5	400	98.50	0.00	0.62	4.00
	comp3	5	400	98.50	0.00	0.70	4.25
	ind2	4	346	99.71	0.29	0.99	2.31
	ind3	4	345	99.13	0.87	0.97	2.32
	sk2	4	346	99.13	0.87	0.96	2.02
	sk3	4	345	99.71	0.29	0.98	1.45
6	comp1	5	250	95.60	3.20	0.54	6.40
	comp2	5	251	98.01	1.20	0.79	5.18
	ind1	4	211	99.05	0.95	0.98	5.21
	ind2	4	215	100.00	0.00	1.00	4.65
	sk1	4	211	99.53	0.47	0.96	2.84
	sk2	4	215	100.00	0.00	1.00	2.79
7	comp1	5	343	96.21	1.75	0.63	5.83
	comp4	5	342	98.54	0.88	0.70	3.51
	ind1	4	283	99.29	0.71	0.97	2.47
	ind4	4	295	99.66	0.34	0.99	3.05
	sk1	4	283	99.29	0.71	0.95	2.12
	sk4	4	295	99.66	0.34	0.98	2.37
8	comp2	5	376	97.61	1.33	0.68	4.52
	comp4	5	377	99.20	0.53	0.75	2.39
	ind2	4	297	99.66	0.34	0.99	3.37
	ind4	4	319	99.06	0.94	0.95	5.02
	sk2	4	297	99.66	0.34	0.99	2.36
	sk4	4	319	98.43	1.57	0.90	4.08
10	comp1	5	333	97.00	0.90	0.48	9.61
	comp2	5	224	99.11	0.45	0.84	9.38
	comp3	5	180	97.22	1.67	0.71	6.67
	comp4	5	239	96.23	0.42	0.39	9.62
	comp5	5	206	98.06	1.46	0.78	7.28
	ind1	4	248	99.19	0.81	0.98	6.05
	ind2	4	173	98.27	1.73	0.96	8.09
	ind3	4	141	97.87	2.13	0.95	7.09
	ind4	4	184	99.46	0.54	0.99	3.80
	ind5	4	151	99.34	0.66	0.97	1.99

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
10	sk1	4	248	99.60	0.40	0.99	6.05
	sk2	4	173	98.84	1.16	0.95	8.09
	sk3	4	141	99.29	0.71	0.96	7.09
	sk4	4	184	100.00	0.00	1.00	3.80
	sk5	4	151	98.68	1.32	0.90	2.65

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

Table O-10. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics by Grade – STE

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
5	comp1	5	330	97.58	0.30	0.41	3.94
	comp2	5	347	96.83	0.58	0.48	6.34
	comp3	5	276	98.19	0.72	0.64	4.71
	comp4	5	137	94.89	2.19	0.36	7.30
	ind1	4	272	98.53	1.47	0.95	4.41
	ind2	4	266	98.50	1.50	0.94	4.51
	ind3	4	233	99.57	0.43	0.99	3.00
	ind4	4	111	100.00	0.00	1.00	3.60
	sk1	4	272	99.26	0.74	0.97	3.31
	sk2	4	266	100.00	0.00	1.00	2.63
	sk3	4	233	100.00	0.00	1.00	3.00
	sk4	4	111	100.00	0.00	1.00	1.80
8	comp1	5	307	98.37	0.65	0.58	3.26
	comp2	5	325	98.15	0.31	0.63	4.31
	comp3	5	231	100.00	0.00	1.00	1.73
	comp4	5	182	98.35	0.00	0.56	4.40
	ind1	4	242	99.17	0.83	0.98	5.37
	ind2	4	241	99.59	0.41	0.99	4.98
	ind3	4	196	100.00	0.00	1.00	4.59
	ind4	4	149	98.66	1.34	0.96	2.01
	sk1	4	242	99.17	0.83	0.92	3.72
	sk2	4	241	99.17	0.83	0.95	3.32
	sk3	4	196	100.00	0.00	1.00	2.55
	sk4	4	149	99.33	0.67	0.97	2.01

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

Table O-11. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Biology

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
comp1	5	305	98.36	0.66	0.72	7.87
comp2	5	301	98.67	0.33	0.64	6.64
comp3	5	295	98.64	0.00	0.62	7.80

continued

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
ind1	4	227	97.80	2.20	0.94	8.81
ind2	4	225	98.22	1.78	0.95	9.33
ind3	4	219	99.09	0.91	0.97	5.02
sk1	4	227	98.68	0.88	0.91	9.69
sk2	4	225	99.56	0.44	0.98	9.78
sk3	4	219	99.54	0.46	0.99	5.02

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

Table O-12. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Chemistry

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
comp1	5	15	100.00	0.00	1.00	0.00
comp2	5	15	100.00	0.00	1.00	0.00
comp3	5	15	100.00	0.00	1.00	0.00
ind1	4	13	100.00	0.00	1.00	0.00
ind2	4	12	100.00	0.00	1.00	0.00
ind3	4	13	100.00	0.00	1.00	0.00
sk1	4	13	100.00	0.00	1.00	0.00
sk2	4	12	100.00	0.00	1.00	0.00
sk3	4	13	100.00	0.00	1.00	0.00

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

Table O-13. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Introductory Physics

Item Number	Number of		Percent		Correlation	Percent of Third Scores
	Score Categories	Responses Scored Twice	Exact	Adjacent		
comp1	5	24	100.00	0.00	1.00	4.17
comp2	5	23	100.00	0.00	1.00	8.70
comp3	5	23	95.65	0.00	0.41	8.70
ind1	4	22	100.00	0.00	1.00	4.55
ind2	4	16	100.00	0.00	1.00	0.00
ind3	4	20	100.00	0.00	1.00	5.00
sk1	4	22	100.00	0.00		4.55
sk2	4	16	100.00	0.00		0.00
sk3	4	20	100.00	0.00	1.00	5.00

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

**Table O-14. 2014 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics –
High School Technology/Engineering**

<i>Item Number</i>	<i>Number of</i>		<i>Percent</i>		<i>Correlation</i>	<i>Percent of Third Scores</i>
	<i>Score Categories</i>	<i>Responses Scored Twice</i>	<i>Exact</i>	<i>Adjacent</i>		
comp1	5	23	91.30	8.70	0.93	17.39
comp2	5	21	90.48	9.52	0.94	14.29
comp3	5	21	85.71	14.29	0.81	23.81
ind1	4	15	100.00	0.00	1.00	6.67
ind2	4	16	100.00	0.00	1.00	6.25
ind3	4	15	100.00	0.00		6.67
sk1	4	15	100.00	0.00	1.00	6.67
sk2	4	16	100.00	0.00	1.00	6.25
sk3	4	15	100.00	0.00		6.67

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