

Appendix O

INTER-RATER CONSISTENCY

**Table O-1. 2012 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	6,894	63.75	34.57	0.71	1.52
	286602	3	6,899	75.34	24.19	0.60	0.46
	292758	3	6,919	84.56	14.71	0.85	0.72
	282176	3	6,888	87.56	12.33	0.82	0.12
	282177	3	6,890	77.69	21.60	0.75	0.71
4	287974C	4	67,966	66.79	32.44	0.62	1.29
	291040	5	6,799	66.79	32.05	0.79	0.97
	285310	5	6,803	67.59	30.85	0.71	1.40
	277009	5	6,767	64.99	32.69	0.76	2.08
	280003	5	6,833	65.40	33.27	0.71	1.26
	287974T	6	67,966	68.06	31.08	0.75	1.29
5	276348	5	6,893	64.31	34.53	0.76	0.99
	276129	5	6,919	66.32	31.96	0.81	1.59
	283516	5	6,898	66.02	31.79	0.72	1.93
	286706	5	6,897	64.43	33.99	0.73	1.38
6	292323	5	6,861	58.14	39.43	0.69	2.19
	285611	5	6,849	55.80	40.94	0.67	3.04
	292389	5	6,826	60.93	36.39	0.78	2.27
	292354	5	6,909	56.20	38.96	0.70	4.23
7	288032T	6	67,590	67.46	31.83	0.71	0.84
	292825	5	6,822	66.27	32.91	0.78	0.72
	280290	5	6,812	67.67	30.83	0.80	1.34
	279239	5	6,781	63.25	34.46	0.77	2.14
	277055	5	6,860	62.93	35.45	0.80	1.22
	288032C	4	67,590	71.54	28.08	0.64	0.84
8	276022	5	6,966	60.74	36.98	0.75	1.98
	276039	5	6,935	62.88	35.63	0.73	1.27
	283668	5	6,882	61.01	36.84	0.81	1.83
	293352	5	6,874	64.95	34.29	0.71	0.67
10	292762T	6	63,941	64.41	34.58	0.63	1.06
	293580	5	65,501	68.19	31.24	0.72	0.47
	293055	5	65,462	66.24	33.04	0.74	0.60
	286033	5	65,243	64.14	34.15	0.79	1.33
	280634	5	65,692	63.62	34.97	0.78	1.20
	292762C	4	63,941	73.11	26.40	0.60	1.06

**Table O-2. 2012 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	287161	3	6,963	95.25	4.67	0.96	0.09
	227298	2	6,897	99.04	0.96	0.98	0.00
	260581	2	6,952	98.72	1.28	0.96	0.00
	253597	3	6,959	88.99	10.96	0.86	0.04
	203636	2	6,946	99.09	0.91	0.98	0.00
	203603	2	6,935	99.29	0.71	0.98	0.00
	253576	2	6,949	99.04	0.96	0.96	0.00
	207951	3	6,936	92.78	7.14	0.93	0.09
	283009	2	6,935	98.88	1.12	0.97	0.00
	281227	3	6,949	92.33	6.86	0.93	0.81
4	279786	2	6,864	98.60	1.40	0.97	0.00
	227469	2	6,854	98.99	1.01	0.97	0.00
	258230	2	6,827	99.33	0.67	0.98	0.00
	227301	5	6,907	73.04	22.92	0.88	4.00
	287488	5	6,809	76.33	22.31	0.87	1.32
	279788	2	6,873	99.05	0.95	0.97	0.00
	247653	2	6,856	98.31	1.69	0.97	0.00
	258227	2	6,884	97.46	2.54	0.94	0.00
	258282	5	6,861	84.14	13.90	0.93	1.95
	281896	5	6,879	90.71	8.85	0.96	0.44
5	262237	2	6,961	99.15	0.85	0.98	0.00
	287618	2	6,882	97.66	2.34	0.95	0.00
	221209	2	6,962	98.72	1.28	0.97	0.00
	207696	5	6,972	82.24	15.30	0.94	2.34
	287620	5	6,927	89.07	8.76	0.95	2.15
	287263	2	6,985	99.57	0.43	0.98	0.00
	280734	2	6,982	98.11	1.89	0.94	0.00
	280500	2	6,918	98.50	1.50	0.97	0.00
	287660	5	6,966	88.39	10.47	0.95	1.15
	287266	5	6,944	76.92	20.61	0.91	2.43
6	266130	2	6,984	98.31	1.69	0.96	0.00
	265897	2	6,995	98.98	1.02	0.98	0.00
	272189	5	6,984	75.00	21.69	0.87	3.19
	282475	5	6,951	81.64	16.08	0.94	2.24
	282250	2	6,986	98.14	1.86	0.95	0.00
	217604	2	6,963	99.01	0.99	0.97	0.00
	282349	2	6,981	99.13	0.87	0.98	0.00
	251347	5	6,966	84.11	14.97	0.93	0.88
	251576	5	6,990	81.23	17.73	0.93	1.03
	288294	2	6,987	98.70	1.30	0.97	0.00
7	249217	2	7,009	98.67	1.33	0.97	0.00
	281493	2	6,919	98.77	1.23	0.98	0.00
	260415	2	6,906	99.49	0.51	0.98	0.00
	261632	5	7,042	83.97	14.85	0.92	1.12
	205650	5	6,998	84.67	14.20	0.93	1.11

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
7	290129	2	7,035	99.40	0.60	0.99	0.00
	299665	2	7,042	99.26	0.74	0.98	0.00
	219537	2	7,031	98.92	1.08	0.96	0.00
	288736	5	7,001	85.90	12.10	0.95	1.93
	250462	5	6,983	84.92	10.65	0.91	4.32
8	228379	2	7,109	98.30	1.70	0.91	0.00
	272947	2	7,114	99.24	0.76	0.98	0.00
	219697	2	7,080	98.98	1.02	0.97	0.00
	264746	5	7,082	79.17	18.94	0.93	1.71
	228439	5	7,052	81.27	17.74	0.93	0.96
	275051	2	7,108	99.23	0.77	0.98	0.00
	283286	2	7,084	98.77	1.23	0.97	0.00
	219707	2	7,119	99.23	0.77	0.98	0.00
	287605	5	7,024	89.15	9.67	0.95	1.17
	265966	5	6,985	92.67	6.30	0.97	1.03
10	250662	2	65,539	99.23	0.77	0.98	0.00
	288089	5	66,196	79.21	20.00	0.92	0.71
	287466	5	66,556	86.12	13.11	0.95	0.72
	288088	5	67,098	84.09	15.27	0.92	0.60
	287750	5	66,608	88.50	10.43	0.93	0.97
	288048	5	65,896	88.42	11.25	0.96	0.32
	287738	2	66,988	98.20	1.80	0.96	0.00
	261492	2	64,730	98.56	1.44	0.97	0.00
	276483	5	65,050	85.07	14.39	0.96	0.49
	287462	2	65,450	99.15	0.85	0.98	0.00

Table O-3. 2012 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	288176	5	7,431	55.05	38.03	0.78	6.37
	281811	5	7,067	73.75	21.48	0.88	4.54
	264893	5	7,536	58.61	34.02	0.82	7.07
	273720	5	7,273	58.35	34.39	0.81	7.11
8	290236	5	6,988	68.53	28.71	0.90	2.58
	265215	5	7,031	78.07	20.21	0.91	1.66
	288318	5	6,999	78.93	19.77	0.89	1.20
	282019	5	6,862	75.63	22.38	0.91	1.94

Table O-4. 2012 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		
289994	5	46,954	70.51	27.17	0.84	2.08
234808	5	44,969	73.42	24.39	0.85	1.99
279498	5	46,160	75.73	23.22	0.90	0.96
261447	5	46,001	73.20	24.06	0.84	2.50
291007	5	45,843	63.53	32.39	0.78	3.42

Table O-5. 2012 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		
281306	5	1,314	75.27	22.83	0.91	1.83
287607	5	1,285	71.44	26.69	0.90	1.87
206688	5	1,314	60.27	32.42	0.86	7.15
261154	5	1,309	56.84	35.83	0.75	6.11
287891	5	1,320	65.15	29.09	0.81	5.45

Table O-6. 2012 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		
293154	5	16,792	79.74	19.13	0.90	1.11
288393	5	16,405	75.04	22.91	0.92	1.97
287406	5	16,554	63.98	30.38	0.84	5.15
247000	5	16,330	66.91	30.45	0.81	2.60
287215	5	16,562	71.28	25.38	0.82	3.19

Table O-7. 2012 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		
285994	5	1,946	60.89	36.23	0.72	2.36
281497	5	1,873	68.23	26.86	0.84	4.64
293033	5	1,817	60.65	33.52	0.81	5.45
260819	5	1,919	57.69	36.74	0.71	5.16
206792	5	1,900	84.37	13.16	0.90	2.47

**Table O-8. 2012 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	164	99.39	0.61	0.70	0.61
	comp2	5	164	98.17	1.22	0.76	2.44
	ind1	4	150	98.67	1.33	0.93	1.33
	ind2	4	152	99.34	0.66	0.99	0.66
	sk1	4	150	99.33	0.67	0.98	0.67
	sk2	4	152	100.00	0.00	1.00	0.00
4	comp1	5	197	97.97	1.02	0.63	2.03
	comp2	5	196	99.49	0.51	0.94	1.02
	comp3	5	194	98.45	0.52	0.59	2.06
	ind1	4	185	100.00	0.00	1.00	0.54
	ind2	4	190	99.47	0.53	0.97	1.05
	ind3	4	179	98.88	1.12	0.97	1.68
	sk1	4	185	98.92	1.08	0.85	1.08
	sk2	4	190	98.95	1.05	0.94	1.58
5	sk3	4	179	98.88	1.12	0.94	1.68
	comp1	5	303	99.01	0.66	0.77	2.97
	comp2	5	302	98.68	0.33	0.70	3.64
	ind1	4	284	99.65	0.00	0.95	2.46
	ind2	4	277	99.64	0.36	0.99	1.81
	sk1	4	284	99.65	0.35	0.98	2.46
6	sk2	4	277	100.00	0.00	1.00	1.44
	comp1	5	226	98.67	1.33	0.89	3.10
	comp2	5	226	97.79	1.77	0.76	3.10
	ind1	4	195	98.97	1.03	0.97	1.03
	ind2	4	206	98.06	1.46	0.92	1.94
	sk1	4	195	99.49	0.51	0.98	0.51
7	sk2	4	206	98.54	1.46	0.96	1.46
	comp1	5	279	98.21	1.08	0.75	5.73
	comp2	5	278	99.28	0.36	0.84	3.24
	comp3	5	272	98.53	0.74	0.65	4.41
	ind1	4	226	98.67	1.33	0.95	2.21
	ind2	4	235	100.00	0.00	1.00	0.00
	ind3	4	235	98.72	1.28	0.97	2.98
	sk1	4	226	98.67	1.33	0.95	2.21
8	sk2	4	235	99.15	0.85	0.96	0.85
	sk3	4	235	100.00	0.00	1.00	1.70
	comp1	5	274	98.54	0.73	0.73	3.65
	comp2	5	274	96.72	1.46	0.38	4.01
	ind1	4	225	98.67	1.33	0.96	1.33
	ind2	4	234	99.57	0.43	0.99	0.43
10	sk1	4	225	98.22	1.78	0.92	1.78
	sk2	4	234	99.15	0.85	0.95	1.28
	comp1	5	1,023	96.77	2.15	0.50	7.53
10	comp2	5	1,022	97.26	2.15	0.65	6.07
	comp3	5	1,018	96.37	1.87	0.47	7.17

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
10	ind1	4	824	98.79	1.21	0.96	5.22
	ind2	4	846	98.46	1.54	0.97	5.67
	ind3	4	762	98.82	1.18	0.98	4.59
	sk1	4	824	98.30	1.70	0.95	5.70
	sk2	4	846	99.53	0.47	0.99	4.73
	sk3	4	762	98.95	1.05	0.97	4.59

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

Table O-9. 2012 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	166	98.80	1.20	0.74	1.20
	comp2	5	164	97.56	1.83	0.35	2.44
	ind1	4	153	98.69	1.31	0.95	1.31
	ind2	4	144	99.31	0.69	0.96	0.69
	sk1	4	153	99.35	0.65	0.97	0.65
	sk2	4	144	99.31	0.69	0.97	0.69
4	comp1	5	196	98.98	0.51	0.82	1.53
	comp5	5	196	98.98	1.02	0.92	1.53
	ind1	4	184	98.91	1.09	0.97	1.09
	ind5	4	178	99.44	0.56	0.98	0.56
	sk1	4	184	100.00	0.00	1.00	0.00
	sk5	4	178	98.88	1.12	0.91	1.12
5	comp1	5	309	100.00	0.00	1.00	1.62
	comp4	5	307	98.70	0.33	0.47	2.93
	ind1	4	283	99.65	0.35	0.98	2.12
	ind4	4	284	99.65	0.35	0.98	2.11
	sk1	4	283	99.65	0.35	0.98	2.12
	sk4	4	284	98.24	1.76	0.91	3.52
6	comp1	5	229	98.25	1.31	0.75	2.62
	comp2	5	230	100.00	0.00	1.00	1.30
	ind1	4	203	99.51	0.49	0.98	0.99
	ind2	4	207	99.03	0.97	0.97	1.45
	sk1	4	203	99.51	0.49	0.99	0.99
	sk2	4	207	99.52	0.48	0.98	0.97
7	comp1	5	291	99.31	0.34	0.81	2.41
	comp5	5	290	97.59	1.38	0.78	6.90
	ind1	4	244	99.18	0.82	0.98	1.23
	ind5	4	217	99.08	0.92	0.98	1.38
	sk1	4	244	99.18	0.82	0.97	1.23
	sk5	4	217	99.54	0.46	0.98	0.92
8	comp1	5	285	98.95	0.35	0.65	2.11
	comp3	5	284	98.59	0.70	0.57	3.17

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
8	ind1	4	250	100.00	0.00	1.00	0.00
	ind3	4	242	99.17	0.83	0.97	0.83
	sk1	4	250	100.00	0.00	1.00	0.00
	sk3	4	242	100.00	0.00	1.00	0.00
10	comp1	5	869	97.70	1.61	0.57	5.41
	comp2	5	607	96.54	2.31	0.52	6.59
	comp3	5	508	96.46	2.36	0.64	6.30
	comp4	5	515	96.50	1.36	0.54	6.99
	comp5	5	592	98.99	0.68	0.77	4.90
	ind1	4	654	98.78	1.22	0.97	4.43
	ind2	4	486	98.56	1.44	0.97	4.94
	ind3	4	396	98.99	1.01	0.98	4.55
	ind4	4	391	98.47	1.53	0.97	5.12
	ind5	4	449	98.89	1.11	0.97	5.12
	sk1	4	654	98.78	1.22	0.97	4.59
	sk2	4	486	99.38	0.62	0.98	4.12
	sk3	4	396	99.24	0.76	0.98	4.55
	sk4	4	391	99.23	0.77	0.97	4.09
	sk5	4	449	99.11	0.89	0.97	4.90

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

Table O-10. 2012 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	242	98.35	1.24	0.60	2.89
	comp2	5	246	98.78	1.22	0.77	2.44
	comp3	5	214	99.53	0.47	0.95	1.40
	comp4	5	81	98.77	1.23	0.70	2.47
	ind1	4	225	100.00	0.00	1.00	1.33
	ind2	4	226	99.12	0.88	0.97	1.77
	ind3	4	193	98.96	1.04	0.95	2.07
	ind4	4	78	100.00	0.00	1.00	1.28
	sk1	4	225	100.00	0.00	1.00	1.33
	sk2	4	226	99.12	0.88	0.94	1.77
	sk3	4	193	99.48	0.52	0.96	1.55
	sk4	4	78	97.44	2.56	0.85	3.85
	8	comp1	5	224	96.43	2.68	0.44
comp2		5	239	98.33	0.84	0.57	2.09
comp3		5	187	96.79	1.07	0.42	4.28
comp4		5	101	93.07	1.98	0.28	8.91
ind1		4	196	98.98	1.02	0.98	1.02
ind2		4	199	97.99	2.01	0.93	2.01
ind3		4	162	99.38	0.62	0.98	0.62
ind4		4	81	98.77	1.23	0.92	2.47

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
8	sk1	4	196	99.49	0.51	0.98	0.51
	sk2	4	199	100.00	0.00	1.00	0.00
	sk3	4	162	99.38	0.62	0.96	0.62
	sk4	4	81	98.77	1.23	0.91	1.23

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

Table O-11. 2012 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	777	96.27	1.80	0.41	6.82
comp2	5	777	96.53	1.80	0.43	6.44
comp3	5	770	95.32	1.69	0.38	8.57
ind1	4	532	99.25	0.75	0.98	4.89
ind2	4	550	99.09	0.91	0.97	5.64
ind3	4	536	99.07	0.93	0.97	5.41
sk1	4	532	99.44	0.56	0.98	4.70
sk2	4	550	98.18	1.82	0.92	6.55
sk3	4	536	98.69	1.31	0.93	5.97

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

Table O-12. 2012 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	59	94.92	5.08	0.72	10.17
comp2	5	55	89.09	3.64	0.51	12.73
comp3	5	50	98.00	2.00	0.92	4.00
ind1	4	46	97.83	2.17	0.86	4.35
ind2	4	38	97.37	2.63	0.98	2.63
ind3	4	41	97.56	2.44	0.98	2.44
sk1	4	46	97.83	2.17	0.90	4.35
sk2	4	38	100.00	0.00	1.00	0.00
sk3	4	41	100.00	0.00	1.00	0.00

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

Table O-13. 2012 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Introductory Physics

<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	76	96.05	3.95	0.80	6.58
comp2	5	76	93.42	5.26	0.55	10.53
comp3	5	75	94.67	4.00	0.63	8.00
ind1	4	57	100.00	0.00	1.00	3.51
ind2	4	55	100.00	0.00	1.00	3.64
ind3	4	53	100.00	0.00	1.00	3.77
sk1	4	57	100.00	0.00	1.00	3.51
sk2	4	55	100.00	0.00	1.00	3.64
sk3	4	53	100.00	0.00	1.00	3.77

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

Table O-14. 2012 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	97	94.85	3.09	0.75	8.25
comp2	5	96	94.79	4.17	0.73	6.25
comp3	5	90	92.22	5.56	0.62	10.00
ind1	4	69	98.55	1.45	0.97	2.90
ind2	4	70	97.14	2.86	0.90	4.29
ind3	4	72	97.22	1.39	0.85	4.17
sk1	4	69	97.10	2.90	0.93	4.35
sk2	4	70	98.57	1.43	0.96	2.86
sk3	4	72	98.61	1.39	0.96	2.78

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