

# **APPENDIX O**

## **INTERRATER CONSISTENCY**



**Table O-1. 2013 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	276979	5	6,955	64.10	34.22	0.75	1.50
	265953	3	6,890	82.51	17.42	0.59	0.07
	296952	3	6,880	89.11	10.83	0.84	0.06
	286598	3	6,893	74.12	25.45	0.66	0.42
	286599	3	6,826	83.02	16.74	0.81	0.23
4	298623	5	6,860	63.05	34.94	0.69	1.60
	291326	5	6,911	60.77	35.75	0.75	3.00
	285443	5	6,798	64.43	34.05	0.70	1.25
	297788	5	6,902	63.36	34.47	0.77	1.87
	299646T	6	67,376	70.65	28.50	0.80	1.02
	299646C	4	67,376	73.99	25.56	0.74	1.02
5	291620	5	7,084	61.72	35.87	0.69	1.96
	298405	5	6,864	60.37	37.15	0.70	2.19
	276290	5	7,170	62.96	34.50	0.73	2.12
	296745	5	7,111	62.34	35.71	0.78	1.60
6	286541	5	6,977	68.25	30.73	0.75	0.87
	298553	5	6,935	60.10	37.52	0.74	1.90
	277458	5	6,956	61.89	36.36	0.71	1.38
	297918	5	6,896	64.69	34.24	0.77	0.91
7	299669T	6	66,636	64.78	33.96	0.70	1.26
	299669C	4	66,636	70.98	28.50	0.66	1.26
	279229	5	6,800	63.62	34.96	0.72	1.16
	292155	5	6,780	62.37	35.75	0.73	1.61
	286385	5	6,784	64.45	34.32	0.72	1.12
	292207	5	6,839	62.30	36.23	0.72	1.24
8	297338	5	6,790	62.65	35.63	0.76	1.35
	285914	5	6,963	56.00	40.30	0.73	3.12
	271501	5	6,877	59.39	38.85	0.74	1.45
	283753	5	6,893	61.50	36.78	0.76	1.48
10	296592	5	64,427	61.15	37.00	0.71	1.47
	293557	5	65,052	64.39	34.26	0.76	1.09
	287089	5	64,798	64.86	33.99	0.77	0.83
	298808	5	65,199	65.72	33.23	0.75	0.84
	305208T	6	63,423	64.76	34.09	0.65	1.25
	305208C	4	63,423	75.63	24.00	0.61	1.25

**Table O-2. 2013 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	297407	2	6,897	99.57	0.43	0.98	0.00
	281997	2	6,936	99.01	0.99	0.97	0.00
	207955	3	6,904	95.23	4.35	0.96	0.41

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	207827	2	6,918	98.96	1.04	0.97	0.00
	287136	3	6,932	92.92	7.04	0.92	0.04
	293510	2	6,923	98.70	1.30	0.96	0.00
	297453	2	6,923	97.92	2.08	0.92	0.00
	264572	3	6,906	85.03	14.74	0.88	0.23
	287152	2	6,861	98.05	1.95	0.94	0.00
	285972	3	6,916	95.85	4.08	0.96	0.07
4	258212	2	6,928	98.90	1.10	0.97	0.00
	293519	2	6,909	99.22	0.78	0.97	0.00
	297623	2	6,914	96.76	3.24	0.93	0.00
	297615	5	6,901	83.19	14.49	0.93	2.28
	272227	5	6,911	69.66	27.23	0.84	3.08
	293719	2	6,865	98.53	1.47	0.97	0.00
	227864	2	6,905	97.64	2.36	0.92	0.00
	219073	2	6,931	98.36	1.64	0.97	0.00
	297617	5	6,854	84.07	14.79	0.94	1.12
	250313	5	6,910	83.15	15.85	0.95	1.00
5	260839	2	6,884	98.82	1.18	0.98	0.00
	207523	2	6,825	99.28	0.72	0.98	0.00
	293831	2	6,900	99.28	0.72	0.96	0.00
	298019	5	6,849	79.33	18.81	0.94	1.84
	296353	5	6,866	91.87	7.30	0.97	0.83
	287421	2	6,893	99.20	0.80	0.97	0.00
	298016	2	6,890	99.39	0.61	0.98	0.00
	249114	2	6,902	99.04	0.96	0.97	0.00
	261989	5	6,781	87.42	9.90	0.95	2.65
	298005	5	6,831	87.75	11.20	0.94	1.05
6	248904	2	6,975	98.77	1.23	0.97	0.00
	282278	2	6,931	98.59	1.41	0.96	0.00
	299672	2	7,008	99.02	0.98	0.96	0.00
	273841	5	6,981	92.94	5.83	0.95	1.23
	298287	5	6,894	82.17	15.59	0.92	2.07
	298255	2	6,973	97.06	2.94	0.94	0.00
	217619	2	6,964	98.65	1.35	0.97	0.00
	289758	2	6,905	98.03	1.97	0.96	0.00
	298250	5	6,959	86.58	11.21	0.92	2.21
	251350	5	6,913	80.41	17.33	0.94	2.24
7	219511	2	7,043	98.32	1.68	0.93	0.00
	205420	2	7,005	98.02	1.98	0.96	0.00
	298193	2	7,054	98.40	1.60	0.92	0.00
	261081	5	7,013	80.32	18.82	0.92	0.84
	259293	5	6,870	84.91	14.47	0.95	0.60
	295742	2	7,029	98.96	1.04	0.98	0.00
	281696	2	7,020	98.60	1.40	0.94	0.00
	219536	2	7,036	98.29	1.71	0.95	0.00
	298185	5	6,986	79.29	19.68	0.90	1.02
	228042	5	6,901	92.74	5.55	0.97	1.70

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
8	265348	2	7,005	98.72	1.28	0.97	0.00
	296114	2	6,934	98.88	1.12	0.97	0.00
	219701	2	7,003	98.87	1.13	0.98	0.00
	297645	5	6,941	87.22	9.57	0.95	3.20
	298054	5	6,858	72.98	24.96	0.87	2.07
	299554	2	7,036	99.02	0.98	0.97	0.00
	297651	2	6,929	99.36	0.64	0.99	0.00
	297664	2	6,930	99.13	0.87	0.98	0.00
	284769	5	7,003	90.88	8.78	0.97	0.34
	228175	5	6,786	86.30	12.50	0.96	1.21
10	279302	2	66,931	99.14	0.86	0.98	0.00
	294026	2	67,424	99.24	0.76	0.98	0.00
	288090	5	66,748	90.70	9.00	0.96	0.29
	294025	2	65,883	99.15	0.85	0.97	0.00
	254560	2	66,903	99.16	0.84	0.98	0.00
	294030	5	65,385	74.86	23.17	0.92	1.67
	296368	5	65,269	89.19	10.47	0.96	0.34
	296369	5	65,219	89.97	8.35	0.95	1.62
	288045	5	65,263	84.82	14.44	0.94	0.70
	294335	5	65,259	83.02	16.33	0.88	0.59

**Table O-3. 2013 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	288159	5	6,854	80.22	17.65	0.92	2.10
	288853	5	6,836	72.81	25.75	0.86	1.39
	291642	5	7,116	62.28	32.95	0.85	4.79
	273773	5	7,122	64.55	31.44	0.86	3.78
8	292022	5	6,851	88.15	7.59	0.93	4.15
	282059	5	6,923	57.19	34.44	0.75	7.50
	273986	5	6,831	71.28	25.53	0.87	2.94
	299004	5	6,998	61.40	33.15	0.82	4.80

**Table O-4. 2013 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		
289132	5	45,849	62.97	33.35	0.81	3.26
294798	5	46,101	70.65	27.63	0.90	1.61
295308	5	43,245	60.96	35.35	0.80	3.33
290009	5	46,150	66.92	30.72	0.85	2.21
296805	5	44,864	70.70	26.03	0.76	2.88

**Table O-5. 2013 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		
273070	5	1,084	79.06	16.79	0.92	4.15
272994	5	1,067	73.66	25.40	0.86	0.84
260794	5	1,091	66.54	30.98	0.85	2.47
274045	5	1,072	65.11	30.41	0.74	4.48
294716	5	1,072	59.14	34.79	0.74	5.13

**Table O-6. 2013 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		
287066	5	15,881	75.37	22.69	0.91	1.85
280977	5	16,062	71.26	26.15	0.89	2.49
287330	5	15,933	83.01	16.05	0.92	0.95
295871	5	15,609	80.56	18.25	0.90	1.13
287358	5	15,656	74.48	23.91	0.89	1.63

**Table O-7. 2013 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		
294424	5	2,478	51.49	38.30	0.67	10.01
274622	5	2,379	61.96	33.84	0.71	3.95
260817	5	2,320	80.78	18.15	0.91	1.08
296472	5	2,417	67.31	29.33	0.82	3.27
268441	5	2,465	71.93	24.99	0.87	2.96

**Table O-8. 2013 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	245	98.78	1.22	0.80	2.45
	comp2	5	245	97.96	1.63	0.72	4.90
	ind1	4	234	100.00	0.00	1.00	0.43
	ind2	4	230	99.13	0.87	0.97	1.30
	sk1	4	234	99.57	0.43	0.96	0.85
	sk2	4	230	98.70	1.30	0.92	2.17
4	comp1	5	468	98.93	0.21	0.47	2.35
	comp2	5	468	98.93	0.64	0.74	2.56
	comp3	5	466	99.14	0.21	0.69	2.79

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
4	ind1	4	441	99.55	0.45	0.97	1.59
	ind2	4	432	98.38	1.39	0.94	3.24
	ind3	4	419	98.81	1.19	0.97	2.15
	sk1	4	441	99.55	0.45	0.98	1.59
	sk2	4	432	99.31	0.69	0.96	2.78
	sk3	4	419	99.28	0.72	0.97	2.15
5	comp1	5	464	98.71	0.65	0.71	4.74
	comp2	5	463	97.41	1.08	0.53	6.26
	ind1	4	435	99.54	0.46	0.98	4.14
	ind2	4	427	99.30	0.70	0.98	3.28
	sk1	4	435	99.31	0.69	0.97	3.91
	sk2	4	427	99.53	0.47	0.97	3.04
6	comp1	5	384	97.92	1.04	0.53	2.34
	comp2	5	384	99.22	0.26	0.80	1.82
	ind1	4	331	100.00	0.00	1.00	0.30
	ind2	4	325	99.38	0.62	0.98	0.92
	sk1	4	331	99.70	0.30	0.99	0.30
	sk2	4	325	99.69	0.31	0.97	1.23
7	comp1	5	358	98.88	0.56	0.68	3.07
	comp2	5	360	97.22	0.83	0.50	5.00
	comp3	5	358	96.93	0.84	0.34	5.31
	ind1	4	328	98.48	1.52	0.93	2.74
	ind2	4	306	99.02	0.98	0.96	2.29
	ind3	4	320	99.06	0.63	0.94	2.81
	sk1	4	328	100.00	0.00	1.00	1.52
	sk2	4	306	99.35	0.65	0.97	2.29
	sk3	4	320	99.38	0.63	0.97	2.19
8	comp1	5	395	97.97	0.76	0.54	4.81
	comp2	5	393	98.47	0.51	0.73	4.58
	ind1	4	344	99.42	0.29	0.95	2.62
	ind2	4	336	99.11	0.60	0.93	2.98
	sk1	4	344	99.13	0.87	0.96	2.91
	sk2	4	336	98.81	1.19	0.95	2.68
10	comp1	5	410	97.07	1.71	0.49	8.54
	comp2	5	410	96.59	0.73	0.42	8.78
	comp3	5	405	96.79	1.23	0.46	8.40
	ind1	4	335	98.21	1.79	0.96	7.46
	ind2	4	356	98.60	1.40	0.96	7.02
	ind3	4	344	99.71	0.29	0.99	6.10
	sk1	4	335	98.21	1.79	0.93	7.46
	sk2	4	356	98.88	1.12	0.97	6.18
	sk3	4	344	99.13	0.87	0.97	6.40

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

**Table O-9. 2013 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	242	99.59	0.41	0.95	1.24
	comp5	5	242	99.59	0.41	0.94	1.24
	ind1	4	223	99.10	0.90	0.97	1.35
	ind5	4	231	100.00	0.00	1.00	0.87
	sk1	4	223	99.10	0.90	0.96	1.79
	sk5	4	231	99.57	0.43	0.98	0.87
4	comp1	5	446	99.10	0.90	0.84	2.47
	comp3	5	445	99.78	0.22	0.93	1.80
	ind1	4	410	99.51	0.49	0.99	1.95
	ind3	4	412	99.03	0.97	0.97	2.67
	sk1	4	410	99.27	0.73	0.97	2.20
	sk3	4	412	99.51	0.49	0.97	2.18
5	comp2	5	461	98.26	1.08	0.66	5.64
	comp3	5	458	98.03	1.09	0.55	5.46
	ind2	4	431	99.07	0.93	0.98	4.64
	ind3	4	426	99.30	0.70	0.98	4.46
	sk2	4	431	99.54	0.46	0.97	4.18
	sk3	4	426	100.00	0.00	1.00	3.99
6	comp1	5	392	98.21	1.02	0.71	2.81
	comp2	5	391	95.91	1.53	0.41	4.09
	ind1	4	331	100.00	0.00	1.00	1.21
	ind2	4	319	99.06	0.94	0.97	1.88
	sk1	4	331	99.70	0.30	0.98	1.21
	sk2	4	319	99.37	0.63	0.96	1.57
7	comp1	5	372	96.77	1.34	0.58	5.38
	comp4	5	370	98.38	1.08	0.63	3.24
	ind1	4	335	99.40	0.60	0.98	1.19
	ind4	4	332	99.10	0.90	0.94	1.81
	sk1	4	335	99.40	0.60	0.96	1.79
	sk4	4	332	100.00	0.00	1.00	1.20
8	comp2	5	403	97.02	1.49	0.58	4.96
	comp4	5	401	98.00	1.00	0.56	3.99
	ind2	4	339	98.82	1.18	0.98	2.65
	ind4	4	350	99.14	0.86	0.98	2.57
	sk2	4	339	99.12	0.88	0.95	2.65
	sk4	4	350	99.71	0.29	0.98	2.00
10	comp1	5	363	96.42	1.93	0.39	8.26
	comp2	5	237	96.62	2.53	0.53	8.02
	comp3	5	227	97.80	1.32	0.61	8.37
	comp4	5	215	97.67	1.40	0.58	6.98
	comp5	5	198	96.46	1.52	0.33	9.60
	ind1	4	303	99.34	0.66	0.99	4.95
	ind2	4	212	99.53	0.47	0.99	5.66
	ind3	4	193	98.45	1.55	0.97	7.77
	ind4	4	176	97.73	2.27	0.95	5.68
	ind5	4	159	98.11	1.89	0.96	6.92

continued



Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
10	sk1	4	303	99.01	0.99	0.95	4.95
	sk2	4	212	98.58	1.42	0.95	6.13
	sk3	4	193	97.93	2.07	0.92	6.74
	sk4	4	176	99.43	0.57	0.98	5.11
	sk5	4	159	98.11	1.89	0.88	7.55

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

**Table O-10. 2013 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	373	98.12	0.54	0.63	4.83
	comp2	5	384	98.70	0.52	0.62	4.17
	comp3	5	330	99.09	0.61	0.79	4.55
	comp4	5	167	99.40	0.60	0.96	1.80
	ind1	4	334	99.70	0.30	0.99	3.29
	ind2	4	345	98.55	1.45	0.95	4.06
	ind3	4	304	99.34	0.66	0.98	3.62
	ind4	4	156	99.36	0.64	0.97	3.85
	sk1	4	334	99.70	0.30	0.98	3.29
	sk2	4	345	99.71	0.29	0.98	3.19
	sk3	4	304	99.01	0.99	0.96	4.28
	sk4	4	156	100.00	0.00	1.00	3.21
8	comp1	5	325	99.08	0.31	0.72	3.38
	comp2	5	340	98.82	0.59	0.71	3.53
	comp3	5	264	98.86	0.38	0.73	3.03
	comp4	5	183	96.17	2.73	0.64	7.10
	ind1	4	273	98.17	1.83	0.95	3.66
	ind2	4	283	99.29	0.35	0.91	3.53
	ind3	4	219	99.09	0.91	0.97	2.28
	ind4	4	144	100.00	0.00	1.00	0.69
	sk1	4	273	98.90	1.10	0.94	2.56
	sk2	4	283	99.29	0.71	0.97	2.83
	sk3	4	219	99.54	0.46	0.96	1.37
	sk4	4	144	99.31	0.69	0.97	1.39

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

**Table O-11. 2013 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	294	97.96	1.02	0.47	6.12
comp2	5	294	97.62	1.36	0.37	6.80
comp3	5	290	97.24	1.03	0.54	8.62

continued

<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>		
ind1	4	246	98.78	0.81	0.94	6.10
ind2	4	234	97.44	2.14	0.90	6.84
ind3	4	232	97.84	2.16	0.92	6.90
sk1	4	246	98.78	1.22	0.96	6.50
sk2	4	234	97.86	2.14	0.85	6.41
sk3	4	232	98.71	1.29	0.94	6.03

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

**Table O-12. 2013 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Chemistry**

<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	31	100.00	0.00	1.00	9.68
comp2	5	29	89.66	0.00	0.17	17.24
comp3	5	29	96.55	0.00	0.54	6.90
ind1	4	25	88.00	12.00	0.91	16.00
ind2	4	20	100.00	0.00	1.00	5.00
ind3	4	24	95.83	4.17	0.96	12.50
sk1	4	25	100.00	0.00	1.00	12.00
sk2	4	20	100.00	0.00	1.00	5.00
sk3	4	24	100.00	0.00	1.00	12.50

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

**Table O-13. 2013 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	29	89.66	10.34	0.81	10.34
comp2	5	28	92.86	3.57	0.69	3.57
comp3	5	28	96.43	3.57	0.94	3.57
ind1	4	23	91.30	8.70	0.86	8.70
ind2	4	22	100.00	0.00	1.00	4.55
ind3	4	22	100.00	0.00	1.00	0.00
sk1	4	23	100.00	0.00	1.00	8.70
sk2	4	22	100.00	0.00	1.00	4.55
sk3	4	22	100.00	0.00	1.00	0.00

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

**Table O-14. 2013 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	27	96.30	3.70	0.80	11.11
comp2	5	28	85.71	7.14	-0.06	25.00
comp3	5	25	80.00	8.00	0.20	28.00
ind1	4	24	100.00	0.00	1.00	4.17
ind2	4	21	100.00	0.00	1.00	4.76
ind3	4	18	100.00	0.00	1.00	11.11
sk1	4	24	100.00	0.00	1.00	4.17
sk2	4	21	100.00	0.00	1.00	4.76
sk3	4	18	100.00	0.00	1.00	11.11

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