

APPENDIX P

INTERRATER CONSISTENCY

**Table P-1. 2015 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	285031	5	3,222	56.39	40.01	0.61	3.48
	308861	3	3,137	80.01	19.19	0.68	0.77
	297110	3	3,139	83.59	16.12	0.76	0.29
	286598	3	3,125	74.30	25.31	0.71	0.35
	286599	3	3,140	78.79	20.10	0.79	1.11
4	303570	5	3,092	60.48	37.03	0.69	2.23
	291326	5	3,234	59.68	37.57	0.74	2.47
	307653	5	3,061	64.98	32.77	0.72	2.09
	297788	5	3,111	54.55	39.99	0.70	5.01
	314851T	6	30,422	66.78	32.23	0.76	1.78
	314851C	4	30,422	68.54	30.48	0.67	1.78
5	291620	5	3,206	61.73	36.62	0.74	1.28
	298406	5	3,186	60.73	36.50	0.70	2.20
	309035	5	3,204	65.29	33.43	0.77	0.97
	302163	5	3,192	65.19	33.90	0.74	0.75
6	297936	5	3,139	58.14	39.22	0.72	2.17
	298553	5	3,159	56.13	40.04	0.70	3.32
	309467	5	3,162	56.51	39.82	0.76	2.69
	292354	5	3,156	57.86	38.62	0.73	2.79
7	281247T	6	30,441	69.06	30.18	0.75	1.09
	281247C	4	30,441	75.97	23.57	0.71	1.09
	309114	5	3,107	61.41	36.34	0.69	1.71
	293306	5	3,125	60.61	37.95	0.75	1.25
	307866	5	3,098	62.81	36.25	0.74	0.84
	277055	5	3,065	64.21	34.58	0.77	0.98
8	309428	5	3,219	61.42	35.14	0.76	2.86
	276040	5	3,187	59.99	37.59	0.77	2.13
	291966	5	3,176	60.93	36.43	0.77	2.27
	283668	5	3,187	58.80	38.06	0.78	2.13
10	308544	5	66,974	60.57	37.67	0.69	1.30
	308654	5	66,822	69.05	30.40	0.78	0.38
	309286	5	66,077	62.29	36.33	0.76	1.01
	302212	5	67,142	69.51	30.02	0.75	0.38
	304973T	6	65,118	69.81	29.64	0.68	0.85
	304973C	4	65,118	77.27	22.35	0.62	0.85

**Table P-2. 2015 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	281997	2	3,140	98.76	1.24	0.96	0.00
	297405	2	3,122	99.42	0.58	0.98	0.00
	297643	3	3,147	96.82	3.18	0.97	0.00

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
3	225883	2	3,149	99.40	0.60	0.99	0.00
	282473	3	3,140	97.32	2.64	0.97	0.03
	304449	2	3,149	98.19	1.81	0.93	0.00
	293516	2	3,153	99.14	0.86	0.98	0.00
	306370	3	3,139	92.16	7.65	0.94	0.19
	297638	2	3,143	99.11	0.89	0.96	0.00
	301611	3	3,148	95.62	4.35	0.93	0.03
4	307066	2	3,135	98.28	1.72	0.96	0.00
	293720	2	3,106	97.78	2.22	0.95	0.00
	307304	2	3,122	98.11	1.89	0.94	0.00
	307122	5	3,111	82.71	16.39	0.93	0.84
	272227	5	3,126	69.39	27.58	0.85	3.01
	221898	2	3,137	99.04	0.96	0.97	0.00
	303332	2	3,124	97.76	2.24	0.94	0.00
	279790	2	3,134	99.20	0.80	0.96	0.00
	297972	5	3,128	70.49	22.79	0.85	6.65
	264547	5	3,115	88.28	9.28	0.95	2.44
5	303760	2	3,171	97.57	2.43	0.95	0.00
	306419	2	3,153	97.84	2.16	0.96	0.00
	306452	2	3,206	98.81	1.19	0.97	0.00
	306390	5	3,209	81.52	17.36	0.91	1.09
	306400	5	3,195	83.19	14.77	0.94	2.00
	238611	2	3,187	99.28	0.72	0.97	0.00
	303761	2	3,190	99.53	0.47	0.99	0.00
	287264	2	3,195	99.15	0.85	0.97	0.00
	301188	5	3,176	76.76	20.84	0.91	2.39
	287620	5	3,212	89.88	7.07	0.95	3.02
6	282348	2	3,165	99.37	0.63	0.99	0.00
	298265	2	3,175	99.62	0.38	0.98	0.00
	307219	2	3,165	98.89	1.11	0.96	0.00
	307329	5	3,131	83.07	16.00	0.95	0.86
	307299	5	3,164	79.87	19.75	0.84	0.38
	307337	2	3,164	95.26	4.74	0.90	0.00
	303715	2	3,153	98.73	1.27	0.97	0.00
	307301	2	3,162	98.45	1.55	0.96	0.00
	290251	5	3,149	86.09	11.37	0.94	2.51
	251350	5	3,160	82.75	15.82	0.95	1.39
7	281489	2	3,163	99.21	0.79	0.98	0.00
	250263	2	3,151	99.62	0.38	0.99	0.00
	298064	2	3,168	98.71	1.29	0.96	0.00
	296361	5	3,174	81.70	17.55	0.92	0.76
	282289	5	3,131	86.91	12.30	0.92	0.80
	303699	2	3,174	98.49	1.51	0.97	0.00
	288734	2	3,150	99.43	0.57	0.98	0.00
	301858	2	3,168	98.90	1.10	0.97	0.00
	219552	5	3,150	92.98	5.94	0.96	1.08
	261648	5	3,127	81.52	15.96	0.94	2.43

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
8	301479	2	3,260	98.44	1.56	0.97	0.00
	296119	2	3,248	99.38	0.62	0.98	0.00
	307400	2	3,218	98.48	1.52	0.96	0.00
	303348	5	3,276	72.07	25.03	0.83	2.59
	307588	5	3,221	77.80	19.93	0.93	2.20
	296753	2	3,242	99.38	0.62	0.98	0.00
	301708	2	3,235	96.51	3.49	0.91	0.00
	307546	2	3,227	98.67	1.33	0.94	0.00
	284774	5	3,223	84.27	14.86	0.96	0.84
	265911	5	3,201	86.97	10.84	0.96	2.06
10	302058	2	67,118	99.53	0.47	0.99	0.00
	306777	2	68,094	99.56	0.44	0.99	0.00
	306471	5	65,941	79.35	19.27	0.93	1.25
	294027	2	67,411	99.59	0.41	0.99	0.00
	268255	2	67,524	98.29	1.71	0.96	0.00
	294530	5	67,836	91.19	8.46	0.97	0.35
	296364	5	66,829	78.85	19.92	0.91	1.05
	288091	5	68,277	90.96	8.69	0.97	0.34
	306475	5	66,950	90.27	8.67	0.98	1.01
	294329	5	67,331	75.94	23.10	0.93	0.89

Table P-3. 2015 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	304674	5	7,044	69.92	28.00	0.78	1.94
	294557	5	6,851	63.49	33.03	0.78	3.21
	304650	5	6,961	76.04	22.84	0.79	1.06
	294537	5	7,123	73.42	24.19	0.89	2.30
8	304525	5	7,155	69.81	27.76	0.84	1.97
	299534	5	6,896	74.93	22.22	0.84	2.36
	265274	5	7,138	55.17	39.94	0.75	4.69
	265290	5	7,117	73.44	25.18	0.88	1.17

Table P-4. 2015 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		
260690	5	48,685	61.49	35.65	0.73	2.02
273305	5	48,872	82.79	16.42	0.93	0.74
276484	5	49,361	80.81	18.53	0.89	0.57
299834	5	48,983	76.03	22.50	0.84	1.36
295307	5	48,587	69.58	27.71	0.83	2.26

Table P-5. 2015 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		
305241	5	1,083	68.61	28.44	0.89	2.77
252684	5	1,065	71.74	26.38	0.90	1.69
294738	5	1,081	56.98	39.50	0.74	3.15
294741	5	1,057	62.06	33.77	0.81	3.88
294742	5	1,055	76.02	22.37	0.90	1.61

Table P-6. 2015 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		
293153	5	15,497	73.62	24.64	0.91	1.70
302738	5	15,517	84.27	14.27	0.94	1.41
293945	5	15,695	87.75	11.24	0.93	1.01
305455	5	15,597	70.87	27.17	0.80	1.84
299385	5	15,347	65.13	32.01	0.86	2.87

Table P-7. 2015 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		
206636	5	2,448	53.10	38.24	0.67	7.76
296471	5	2,498	68.05	29.26	0.84	2.60
300258	5	2,488	68.61	29.62	0.76	1.69
246713	5	2,510	63.59	32.19	0.76	4.22
305127	5	2,419	71.68	26.17	0.90	2.07

Table P-8. 2015 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	301	99.67	0.00	0.88	1.66
	comp2	5	304	99.01	0.33	0.80	2.63
	ind1	4	277	99.64	0.36	0.99	0.36
	ind2	4	255	98.82	1.18	0.96	1.18
	sk1	4	277	100.00	0.00	1.00	0.00
	sk2	4	255	99.22	0.78	0.96	1.18
4	comp1	5	421	99.05	0.71	0.83	1.43
	comp2	5	422	99.05	0.47	0.76	2.13
	comp3	5	419	99.76	0.24	0.98	1.43

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
4	ind1	4	391	99.49	0.51	0.98	0.51
	ind2	4	352	99.43	0.57	0.98	1.14
	ind3	4	376	98.94	1.06	0.96	1.06
	sk1	4	391	100.00	0.00	1.00	0.00
	sk2	4	352	99.43	0.57	0.97	0.85
	sk3	4	376	100.00	0.00	1.00	0.53
5	comp1	5	326	99.69	0.00	0.88	0.31
	comp2	5	326	100.00	0.00	1.00	1.84
	ind1	4	300	99.33	0.67	0.98	1.00
	ind2	4	267	98.50	1.50	0.92	1.50
	sk1	4	300	99.67	0.33	0.97	1.00
	sk2	4	267	100.00	0.00	1.00	0.37
6	comp1	5	191	100.00	0.00	1.00	2.09
	comp2	5	192	100.00	0.00	1.00	2.60
	ind1	4	164	99.39	0.61	0.97	1.22
	ind2	4	145	100.00	0.00	1.00	0.00
	sk1	4	164	99.39	0.61	0.97	0.61
	sk2	4	145	100.00	0.00	1.00	0.00
7	comp1	5	230	100.00	0.00	1.00	1.74
	comp2	5	232	99.57	0.43	0.93	3.02
	comp3	5	232	99.57	0.00	0.89	3.02
	ind1	4	212	99.06	0.94	0.96	1.89
	ind2	4	194	100.00	0.00	1.00	1.03
	ind3	4	207	100.00	0.00	1.00	0.48
	sk1	4	212	100.00	0.00	1.00	1.42
	sk2	4	194	98.97	1.03	0.92	1.03
	sk3	4	207	100.00	0.00	1.00	0.48
8	comp1	5	375	99.47	0.00	0.81	2.13
	comp2	5	378	98.68	0.79	0.80	3.44
	ind1	4	326	99.69	0.31	0.99	0.31
	ind2	4	307	99.02	0.98	0.97	1.95
	sk1	4	326	99.69	0.31	0.99	0.61
	sk2	4	307	98.70	1.30	0.93	2.28
HS	comp1	5	473	97.04	0.85	0.57	3.81
	comp2	5	477	98.53	0.21	0.71	2.52
	comp3	5	475	96.84	0.42	0.55	4.21
	ind1	4	385	99.48	0.52	0.99	1.56
	ind2	4	341	99.41	0.59	0.98	2.05
	ind3	4	385	98.44	1.56	0.97	2.86
	sk1	4	385	99.22	0.78	0.97	1.82
	sk2	4	341	99.71	0.29	0.99	2.05
	sk3	4	385	100.00	0.00	1.00	1.82

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

**Table P-9. 2015 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	309	97.73	0.65	0.63	3.24
	comp5	5	308	97.40	0.97	0.54	3.57
	ind1	4	264	99.24	0.76	0.98	1.14
	ind5	4	280	99.64	0.36	0.99	0.71
	sk1	4	264	99.24	0.76	0.95	1.14
	sk5	4	280	99.64	0.36	0.97	0.71
4	comp1	5	429	99.53	0.23	0.88	1.40
	comp3	5	428	99.07	0.23	0.73	1.17
	ind1	4	373	99.20	0.80	0.98	0.80
	ind3	4	374	99.73	0.27	0.99	0.80
	sk1	4	373	100.00	0.00	1.00	0.27
	sk3	4	374	99.73	0.27	0.98	0.80
5	comp2	5	325	99.69	0.31	0.97	1.54
	comp3	5	324	99.69	0.00	0.84	1.23
	ind2	4	293	99.32	0.68	0.98	1.02
	ind3	4	291	98.28	1.37	0.94	2.75
	sk2	4	293	100.00	0.00	1.00	0.34
	sk3	4	291	98.63	1.37	0.89	2.06
6	comp1	5	206	99.51	0.49	0.95	2.43
	comp2	5	207	100.00	0.00	1.00	1.93
	ind1	4	176	99.43	0.57	0.98	1.14
	ind2	4	174	100.00	0.00	1.00	0.00
	sk1	4	176	98.86	1.14	0.91	1.14
	sk2	4	174	99.43	0.57	0.95	0.57
7	comp1	5	234	98.29	0.43	0.64	4.27
	comp4	5	236	98.73	0.42	0.63	4.24
	ind1	4	215	99.07	0.93	0.96	1.86
	ind4	4	212	99.06	0.94	0.95	1.42
	sk1	4	215	99.53	0.47	0.97	1.40
	sk4	4	212	100.00	0.00	1.00	1.42
8	comp2	5	394	98.48	0.51	0.75	2.79
	comp4	5	394	99.49	0.25	0.88	2.03
	ind2	4	325	98.77	1.23	0.97	2.77
	ind4	4	343	98.83	1.17	0.95	1.75
	sk2	4	325	98.15	1.85	0.89	1.85
	sk4	4	343	99.13	0.87	0.96	2.04
10	comp1	5	109	94.50	3.67	0.62	6.42
	comp2	5	380	98.42	0.00	0.66	1.58
	comp3	5	326	98.47	1.23	0.81	2.15
	comp4	5	351	98.01	0.85	0.77	2.85
	comp5	5	278	96.76	1.44	0.60	4.68
	ind1	4	75	97.33	2.67	0.95	2.67
	ind2	4	298	98.99	1.01	0.98	1.68
	ind3	4	273	98.90	1.10	0.97	1.47
	ind4	4	279	98.92	1.08	0.98	2.51
	ind5	4	210	99.52	0.48	0.99	1.43

continued

Grade	Item Number	Number of		Percent		Correlation	Percent of Third Scores
		Score Categories	Responses Scored Twice	Exact	Adjacent		
10	sk1	4	75	100.00	0.00	1.00	0.00
	sk2	4	298	99.33	0.67	0.97	1.68
	sk3	4	273	100.00	0.00	1.00	1.10
	sk4	4	279	100.00	0.00	1.00	2.51
	sk5	4	210	100.00	0.00	1.00	0.95

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

Table P-10. 2015 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	268	99.63	0.37	0.96	2.61
	comp2	5	279	99.28	0.72	0.93	2.51
	comp3	5	213	100.00	0.00	1.00	1.41
	comp4	5	151	100.00	0.00	1.00	0.00
	ind1	4	235	98.30	1.70	0.94	2.55
	ind2	4	254	98.43	1.57	0.95	1.57
	ind3	4	193	99.48	0.52	0.99	1.04
	ind4	4	139	98.56	1.44	0.94	1.44
	sk1	4	235	99.15	0.85	0.93	2.55
	sk2	4	254	100.00	0.00	1.00	1.57
	sk3	4	193	98.96	1.04	0.90	1.04
	sk4	4	139	100.00	0.00	1.00	0.00
8	comp1	5	326	98.47	0.61	0.78	3.07
	comp2	5	326	98.16	0.31	0.66	3.07
	comp3	5	250	98.80	0.80	0.86	3.20
	comp4	5	195	98.46	1.03	0.74	2.56
	ind1	4	282	98.94	1.06	0.97	1.06
	ind2	4	278	99.64	0.36	0.99	0.36
	ind3	4	220	99.09	0.91	0.97	0.91
	ind4	4	172	100.00	0.00	1.00	0.00
	sk1	4	282	99.65	0.35	0.98	0.35
	sk2	4	278	100.00	0.00	1.00	0.00
	sk3	4	220	99.55	0.45	0.98	1.36
	sk4	4	172	98.84	1.16	0.94	1.16

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

Table P-11. 2015 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	373	98.39	0.27	0.67	3.22
comp2	5	368	95.38	0.27	0.34	5.71
comp3	5	364	97.80	0.55	0.57	4.40

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	299	99.33	0.67	0.98	2.34
ind2	4	287	98.26	1.74	0.94	2.44
ind3	4	289	98.62	1.38	0.95	4.15
sk1	4	299	99.67	0.33	0.99	2.01
sk2	4	287	99.30	0.70	0.95	2.79
sk3	4	289	100.00	0.00	1.00	3.81

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

Table P-12. 2015 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	34	100.00	0.00	1.00	0.00
comp2	5	33	100.00	0.00	1.00	0.00
comp3	5	32	96.88	0.00	0.62	3.13
ind1	4	30	100.00	0.00	1.00	0.00
ind2	4	31	100.00	0.00	1.00	0.00
ind3	4	30	100.00	0.00	1.00	0.00
sk1	4	30	100.00	0.00	1.00	0.00
sk2	4	31	96.77	3.23	0.94	3.23
sk3	4	30	96.67	3.33	0.88	3.33

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

Table P-13. 2015 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	31	96.77	3.23	0.91	3.23
comp2	5	29	96.55	3.45	0.89	3.45
comp3	5	29	96.55	3.45	0.89	3.45
ind1	4	20	95.00	5.00	0.96	5.00
ind2	4	24	95.83	4.17	0.96	4.17
ind3	4	22	100.00	0.00	1.00	0.00
sk1	4	20	95.00	5.00	0.84	5.00
sk2	4	24	100.00	0.00	1.00	4.17
sk3	4	22	100.00	0.00	1.00	0.00

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

**Table P-14. 2015 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	43	97.67	2.33	0.90	2.33
comp2	5	41	97.56	2.44	0.88	2.44
comp3	5	41	95.12	2.44	0.58	4.88
ind1	4	34	100.00	0.00	1.00	0.00
ind2	4	36	100.00	0.00	1.00	0.00
ind3	4	35	100.00	0.00	1.00	0.00
sk1	4	34	97.06	2.94	0.90	2.94
sk2	4	36	97.22	2.78	0.91	2.78
sk3	4	35	100.00	0.00	1.00	0.00

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