

# **Appendix P**

## **INTER-RATER AGREEMENT**

**Table P-1. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics by Grade – English Language Arts**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
3	270039	5	6911	63.88	34.67	0.69	1.42
	282210	3	6886	83.11	16.45	0.75	0.44
	282191	3	6874	95.42	4.57	0.92	0.01
	282176A	3	6846	85.38	14.42	0.78	0.20
	282177B	3	6856	73.03	26.53	0.70	0.44
4	277105	5	6861	64.09	34.22	0.70	1.60
	255620	5	6875	63.05	35.55	0.72	1.25
	268954	5	6811	64.51	33.83	0.79	1.54
	256089	5	6854	59.54	38.27	0.79	1.97
	281622T	6	68040	66.87	32.17	0.76	1.30
	281622C	4	68040	73.21	26.36	0.69	1.30
5	276348	5	6926	56.04	40.51	0.67	3.08
	276129	5	6905	62.39	35.44	0.76	1.96
	270998	5	6878	68.46	30.43	0.65	1.03
	270206	5	6912	62.21	35.79	0.69	1.74
6	257689	5	7003	62.86	35.23	0.73	1.74
	277172	5	6984	64.05	34.66	0.71	1.13
	271539	5	6971	66.69	32.45	0.77	0.82
	257314	5	7007	61.24	36.89	0.72	1.68
7	279229	5	6798	65.70	33.39	0.75	0.81
	280290	5	6803	64.69	33.71	0.76	1.32
	276637	5	6763	64.76	34.07	0.76	1.05
	271315	5	6793	60.97	37.29	0.76	1.62
	281244T	6	67241	64.88	34.12	0.68	1.54
	281244C	4	67241	65.88	33.52	0.57	1.54
8	271621	5	6933	55.42	41.38	0.72	2.71
	276022	5	6887	57.51	39.48	0.72	2.57
	272837	5	6844	59.47	38.60	0.76	1.65
	276107	5	6836	63.49	35.11	0.81	1.23
10	280239	5	67759	63.63	34.99	0.78	1.47
	279394	5	67191	62.15	35.86	0.73	2.09
	279567	5	67242	63.61	34.84	0.79	1.68
	268763	5	67703	59.34	37.00	0.76	3.96
	281763C	4	66223	67.53	31.89	0.55	1.46
	281763T	6	66223	64.28	34.76	0.62	1.46

**Table P-2. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics by Grade – Mathematics**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
3	252969	2	6935	98.86	1.14	0.97	0.00
	252980	2	6895	98.87	1.13	0.98	0.00
	261853	3	6875	91.07	8.80	0.87	0.12
	263132	2	6897	97.25	2.75	0.94	0.00
	227289	2	6854	98.69	1.31	0.96	0.00

Grade	Item Number	Number of Score Categories	Number of Responses Scored Twice	Percent Exact	Percent Adjacent	Correlation	Percent of Third Scores
	253730	3	6934	97.04	2.91	0.97	0.04
	260987	2	6858	96.05	3.95	0.86	0.00
	261029	3	6927	89.71	10.18	0.87	0.10
	273265	2	6892	98.65	1.35	0.97	0.00
	287946	3	6929	97.01	2.97	0.96	0.01
	250538	2	6960	98.97	1.03	0.98	0.00
	219077	2	6913	99.12	0.88	0.98	0.00
	227496	2	6958	99.25	0.75	0.98	0.00
	227873	2	6911	98.22	1.78	0.96	0.00
4	250382	5	6925	79.25	19.41	0.92	1.34
	258223	5	6923	82.52	16.41	0.92	1.03
	258229	2	6941	98.27	1.73	0.96	0.00
	258261	5	6919	78.97	19.92	0.90	1.07
	258303	5	6912	58.13	35.65	0.79	5.67
	281562	2	6930	98.28	1.72	0.97	0.00
	221198	2	6972	97.53	2.47	0.95	0.00
	248878	2	6984	98.74	1.26	0.97	0.00
	249010	5	6938	84.10	14.21	0.93	1.66
	249124	2	6944	98.89	1.11	0.98	0.00
5	260705	2	6851	98.53	1.47	0.97	0.00
	260839	2	6918	98.81	1.19	0.98	0.00
	261228	5	6956	70.63	27.67	0.88	1.64
	261598	2	6951	98.50	1.50	0.96	0.00
	261611	5	6948	78.64	17.03	0.92	4.17
	288080	5	6946	74.23	23.81	0.87	1.91
	223228	2	7084	99.24	0.76	0.98	0.00
	264309	5	7041	75.36	21.96	0.91	2.57
	265896	2	7054	99.29	0.71	0.98	0.00
	266137	5	7035	77.36	20.75	0.93	1.82
6	217599	2	7018	98.15	1.85	0.95	0.00
	217604	2	7045	99.08	0.92	0.97	0.00
	217608	2	7073	98.76	1.24	0.97	0.00
	217619	2	7033	98.48	1.52	0.97	0.00
	273834	5	7083	85.64	12.90	0.94	1.44
	273841	5	7075	93.09	5.74	0.95	1.16
	219531	2	6858	98.59	1.41	0.97	0.00
	219534	2	6955	98.53	1.47	0.97	0.00
	262321	5	6976	85.09	14.03	0.94	0.87
	272155	5	6923	87.43	11.58	0.95	0.97
7	208769	2	6999	98.56	1.44	0.94	0.00
	250206	2	6957	98.46	1.54	0.97	0.00
	250358	2	6929	98.50	1.50	0.96	0.00
	261100	2	6933	98.43	1.57	0.94	0.00
	261630	5	6914	88.31	11.37	0.96	0.32
	281972	5	6953	87.78	11.39	0.95	0.83
	219703	2	7045	98.06	1.94	0.96	0.00
8	219720	5	7015	77.21	21.41	0.91	1.33
	264744	5	6902	92.49	6.00	0.97	1.51
	265583	5	6969	85.72	13.59	0.96	0.69

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
	265598	2	6929	98.18	1.82	0.96	0.00
	265963	2	7033	99.16	0.84	0.98	0.00
	268713	2	6975	99.04	0.96	0.96	0.00
	253766	2	6975	99.01	0.99	0.98	0.00
	253894	5	6954	88.51	10.08	0.96	1.39
	229505	2	7025	99.42	0.58	0.99	0.00
10	251026	2	68548	97.79	2.21	0.94	0.00
	268100	2	68898	99.22	0.78	0.98	0.00
	268672	2	68172	99.19	0.81	0.98	0.00
	261546	5	68543	86.41	13.16	0.94	0.41
	273319	5	68345	86.64	11.98	0.95	1.29
	273605	5	68144	86.19	13.08	0.95	0.72
	276566	5	68216	85.63	13.44	0.95	0.90
	278568	2	67591	98.68	1.32	0.96	0.00
	279267	5	68211	84.10	15.41	0.94	0.45
	279510	5	68496	81.88	17.14	0.94	0.91

**Table P-3. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics by Grade – Science and Technology/Engineering**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
5	288853	5	6861	70.59	28.41	0.85	0.96
	264893	5	7235	55.38	37.40	0.80	6.69
	288851	5	6890	69.17	27.17	0.86	3.64
	273782	5	6889	80.93	17.24	0.87	1.83
8	281079	5	7308	61.32	33.32	0.84	5.27
	282059	5	7115	60.14	32.92	0.77	6.69
	273941	5	6957	84.39	12.82	0.92	2.72
	274000	5	6799	80.20	18.68	0.90	1.10

**Table P-4. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Biology**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
HS	279818	5	52110	79.40	19.13	0.91	1.46
	273513	5	53785	74.35	23.63	0.83	2.00
	273817	5	52538	87.60	10.03	0.93	2.36
	266428	5	53339	67.72	29.08	0.84	3.21
	260764	5	53035	58.53	34.18	0.77	7.35

**Table P-5. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Chemistry**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
HS	268510	5	2002	79.42	17.88	0.93	2.45
	245010	5	1871	80.76	17.64	0.94	1.50
	260789	5	1968	86.18	13.16	0.92	0.66
	281964	5	1962	76.71	21.25	0.93	2.04
	260798	5	1950	90.31	8.67	0.95	1.03

**Table P-6. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Introductory Physics**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
HS	272823	5	17860	67.31	27.79	0.81	4.71
	258362	5	18230	71.26	26.41	0.83	2.21
	273424	5	17911	78.07	20.24	0.88	1.59
	208480	5	18038	63.09	33.48	0.84	3.12
	280766	5	17609	76.22	22.12	0.93	1.64

**Table P-7. 2010 MCAS: Item-Level Inter-Rater Consistency Statistics – High School Technology/Engineering**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
HS	221606	5	2033	76.54	18.99	0.91	4.18
	274336	5	1878	62.89	31.58	0.80	3.94
	274335	5	1997	76.56	21.28	0.87	1.70
	265118	5	1922	68.57	22.48	0.82	8.48
	271587	5	2005	54.96	38.95	0.68	5.29

**Table P-8. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics by Grade – English Language Arts**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
3	comp1	5	254	96.46	3.54	0.82	4.33
	comp2	5	253	96.44	2.37	0.75	5.93
	ind1	4	246	96.75	3.25	0.89	3.25
	ind2	4	235	97.45	2.13	0.86	2.55
	sk1	4	246	98.78	1.22	0.93	1.22
	sk2	4	235	97.87	2.13	0.90	2.13
4	comp1	5	178	97.19	1.69	0.79	5.62
	comp2	5	178	95.51	2.81	0.67	6.74
	comp3	5	178	98.31	1.69	0.91	3.37
	ind1	4	161	98.14	1.86	0.93	2.48
	ind2	4	165	95.76	4.24	0.88	4.85
	ind3	4	166	96.99	3.01	0.93	3.01

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
	sk1	4	161	98.76	0.62	0.73	1.24
	sk2	4	165	98.79	1.21	0.84	1.21
	sk3	4	166	95.78	4.22	0.76	4.22
5	comp1	5	195	96.41	2.56	0.57	4.62
	comp2	5	195	94.87	2.56	0.31	6.15
	ind1	4	183	100.00	0.00	1.00	0.00
	ind2	4	181	98.34	1.66	0.94	1.66
	sk1	4	183	98.91	1.09	0.88	1.09
	sk2	4	181	99.45	0.55	0.96	1.10
6	comp1	5	203	97.04	1.97	0.72	4.93
	comp2	5	203	98.03	0.99	0.61	3.45
	ind1	4	193	98.96	1.04	0.93	2.07
	ind2	4	197	98.48	1.52	0.90	2.03
	sk1	4	193	100.00	0.00	1.00	1.04
	sk2	4	197	97.97	2.03	0.86	2.54
7	comp1	5	222	97.30	1.35	0.54	4.95
	comp2	5	223	98.65	0.90	0.80	3.14
	comp3	5	223	95.96	2.24	0.34	4.93
	ind1	4	207	97.10	2.90	0.89	2.90
	ind2	4	210	97.14	2.86	0.90	3.33
	ind3	4	205	94.63	4.39	0.71	5.85
	sk1	4	207	97.10	2.90	0.83	2.42
	sk2	4	210	97.14	2.86	0.90	3.33
	sk3	4	205	97.56	2.44	0.90	2.93
8	comp1	5	231	94.81	3.46	0.50	7.36
	comp2	5	231	93.51	2.60	0.38	10.39
	ind1	4	215	97.21	2.79	0.91	3.72
	ind2	4	215	97.67	2.33	0.95	3.72
	sk1	4	215	98.14	1.86	0.93	3.26
	sk2	4	215	100.00	0.00	1.00	1.86
10	comp1	5	932	94.42	3.97	0.63	7.62
	comp2	5	928	95.15	2.59	0.58	6.47
	comp3	5	925	94.59	2.92	0.52	7.24
	ind1	4	829	96.74	3.02	0.89	5.07
	ind2	4	813	97.42	2.46	0.93	3.57
	ind3	4	802	95.89	3.87	0.90	4.99
	sk1	4	829	97.95	1.93	0.91	3.62
	sk2	4	813	97.42	2.58	0.93	3.32
	sk3	4	802	98.25	1.62	0.91	2.74

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

**Table P-9. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics by Grade – Mathematics**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
3	comp1	5	247	97.98	1.62	0.78	2.83
	comp2	5	244	98.36	1.64	0.85	2.46
	ind1	4	239	97.91	2.09	0.91	2.09
	ind2	4	235	96.60	2.98	0.78	3.40
	sk1	4	239	98.74	1.26	0.96	1.26
	sk2	4	235	97.87	1.70	0.86	2.13
4	comp1	5	173	98.27	1.73	0.89	2.89
	comp5	5	172	97.67	2.33	0.85	4.07
	ind1	4	163	96.32	3.68	0.82	3.68
	ind5	4	157	96.18	3.82	0.86	4.46
	sk1	4	163	99.39	0.61	0.97	0.61
	sk5	4	157	98.09	1.27	0.86	1.91
5	comp1	5	196	96.94	2.55	0.65	4.08
	comp4	5	194	96.39	3.09	0.59	5.15
	ind1	4	193	96.89	3.11	0.91	3.63
	ind4	4	191	95.81	3.14	0.82	4.19
	sk1	4	193	96.89	3.11	0.73	4.15
	sk4	4	191	98.43	1.57	0.85	2.09
6	comp1	5	207	98.55	1.45	0.87	4.35
	comp2	5	206	97.57	1.94	0.73	4.85
	ind1	4	203	98.03	1.48	0.91	3.94
	ind2	4	201	98.51	1.49	0.94	3.48
	sk1	4	203	98.03	1.97	0.92	4.43
	sk2	4	201	99.50	0.50	0.96	2.49
7	comp1	5	237	97.47	2.53	0.73	2.95
	comp5	5	235	99.15	0.85	0.83	1.28
	ind1	4	221	98.19	1.81	0.91	2.26
	ind5	4	214	97.20	2.80	0.90	3.27
	sk1	4	221	98.64	1.36	0.93	1.81
	sk5	4	214	96.26	3.74	0.88	4.21
8	comp1	5	250	95.60	4.40	0.73	7.20
	comp3	5	250	97.20	2.80	0.76	6.80
	ind1	4	234	97.44	2.56	0.92	3.42
	ind3	4	237	97.89	2.11	0.94	3.38
	sk1	4	234	99.57	0.43	0.98	1.28
	sk3	4	237	98.73	1.27	0.95	2.95
10	comp1	5	795	96.35	2.39	0.46	4.15
	comp2	5	506	93.68	2.57	0.40	7.71
	comp3	5	473	93.45	5.07	0.52	8.25
	comp4	5	503	95.63	2.98	0.59	5.77
	comp5	5	527	96.02	3.23	0.55	5.69
	ind1	4	703	96.59	3.13	0.90	4.84
	ind2	4	423	98.82	1.18	0.98	3.31
	ind3	4	398	97.24	2.76	0.94	5.78
	ind4	4	418	97.37	2.63	0.95	5.02
	ind5	4	466	95.06	4.29	0.87	6.44
sk1	4	703	97.87	2.13	0.93	3.27	

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
	sk2	4	423	98.35	1.42	0.90	3.55
	sk3	4	398	97.24	2.51	0.91	5.03
	sk4	4	418	98.09	1.91	0.92	4.55
	sk5	4	466	97.42	2.15	0.84	3.65

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

**Table P-10. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics by Grade – Science and Technology/Engineering**

<i>Grade</i>	<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
5	comp1	5	168	97.62	1.79	0.61	2.98
	comp2	5	170	99.41	0.59	0.91	1.76
	comp3	5	143	97.20	2.10	0.61	4.20
	comp4	5	53	94.34	3.77	-0.03	5.66
	ind1	4	153	99.35	0.65	0.98	1.31
	ind2	4	160	97.50	2.50	0.94	2.50
	ind3	4	134	99.25	0.75	0.98	1.49
	ind4	4	49	95.92	4.08	0.91	4.08
	sk1	4	153	99.35	0.65	0.94	1.31
	sk2	4	160	100.00	0.00	1.00	0.00
	sk3	4	134	98.51	1.49	0.83	2.24
	sk4	4	49	95.92	4.08	0.80	4.08
	8	comp1	5	194	95.88	3.61	0.51
comp2		5	210	95.71	3.33	0.59	6.19
comp3		5	147	95.92	3.40	0.71	8.16
comp4		5	103	97.09	1.94	0.85	8.74
ind1		4	183	98.36	1.64	0.96	3.28
ind2		4	196	97.96	2.04	0.93	2.55
ind3		4	135	97.78	1.48	0.76	3.70
ind4		4	88	92.05	6.82	0.72	10.23
sk1		4	183	96.72	3.28	0.86	4.92
sk2		4	196	97.45	2.55	0.90	3.57
sk3		4	135	97.78	2.22	0.91	3.70
sk4		4	88	96.59	3.41	0.84	5.68

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



**Table P-11. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Biology**

<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
comp1	5	810	93.33	3.33	0.35	8.02
comp2	5	797	93.73	3.51	0.40	7.90
comp3	5	787	93.90	3.05	0.49	7.75
ind1	4	704	96.88	2.84	0.91	4.26
ind2	4	696	97.70	2.01	0.90	3.59
ind3	4	678	96.31	3.24	0.87	5.46
sk1	4	704	96.73	3.13	0.88	4.12
sk2	4	696	97.99	2.01	0.92	3.30
sk3	4	678	98.08	1.92	0.93	3.39

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

**Table P-12. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Chemistry**

<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
comp1	5	82	87.80	4.88	0.17	14.63
comp2	5	77	88.31	3.90	0.43	16.88
comp3	5	76	89.47	3.95	0.55	17.11
ind1	4	66	98.48	1.52	0.98	7.58
ind2	4	62	93.55	4.84	0.69	11.29
ind3	4	61	98.36	1.64	0.97	4.92
sk1	4	66	100.00	0.00	1.00	6.06
sk2	4	62	98.39	0.00	0.72	6.45
sk3	4	61	96.72	3.28	0.85	6.56

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

**Table P-13. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Introductory Physics**

<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
comp1	5	58	94.83	5.17	0.93	15.52
comp2	5	55	96.36	3.64	0.96	10.91
comp3	5	55	92.73	5.45	0.84	10.91
ind1	4	52	98.08	1.92	0.95	3.85
ind2	4	48	97.92	0.00	0.89	4.17
ind3	4	50	94.00	4.00	0.69	8.00
sk1	4	52	94.23	5.77	0.79	7.69
sk2	4	48	100.00	0.00	1.00	2.08
sk3	4	50	92.00	8.00	0.56	10.00

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

**Table P-14. 2010 MCAS-Alt: Item-Level Inter-Rater Consistency Statistics – High School Technology/Engineering**

<i>Item Number</i>	<i>Number of Score Categories</i>	<i>Number of Responses Scored Twice</i>	<i>Percent Exact</i>	<i>Percent Adjacent</i>	<i>Correlation</i>	<i>Percent of Third Scores</i>
comp1	5	83	90.36	6.02	0.46	13.25
comp2	5	79	91.14	6.33	0.63	10.13
comp3	5	80	91.25	2.50	0.42	10.00
ind1	4	76	93.42	6.58	0.92	5.26
ind2	4	74	86.49	13.51	0.81	14.86
ind3	4	72	88.89	11.11	0.85	11.11
sk1	4	76	98.68	1.32	0.95	1.32
sk2	4	74	94.59	5.41	0.90	6.76
sk3	4	72	97.22	2.78	0.91	2.78

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