

APPENDIX O

CLASSICAL RELIABILITY

Table O-1. Subgroup Reliabilities—ELA

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
3	All Students	66,906	44	25.22	7.59	0.86	2.84
	Economically Disadvantaged	24,781	44	22.02	7.60	0.85	2.93
	African American	5,872	44	22.10	7.55	0.85	2.93
	Asian	4,749	44	28.34	6.98	0.85	2.75
	Hispanic	14,326	44	22.01	7.67	0.85	2.94
	Native American	127	44	23.55	8.11	0.88	2.85
	White	38,865	44	26.43	7.11	0.85	2.77
	Pacific Islander/Hawaiian	41	44	26.27	7.70	0.85	2.95
	Multi-race	2,911	44	26.20	7.40	0.86	2.81
	Male	34,220	44	24.24	7.53	0.86	2.82
	Female	32,682	44	26.24	7.52	0.86	2.83
	Limited English Proficient	9,171	44	19.69	7.15	0.83	2.96
	Former LEP	3,341	44	27.28	6.86	0.83	2.82
	LEPFLEP	12,512	44	21.72	7.83	0.86	2.94
	Special Education	12,684	44	18.96	7.25	0.84	2.87
	Plan 504	3,223	44	24.30	6.88	0.83	2.83
	Title I	33,791	44	23.10	7.63	0.85	2.91
4	All Students	68,811	44	26.09	8.29	0.89	2.80
	Economically Disadvantaged	25,757	44	22.37	8.22	0.88	2.89
	African American	6,341	44	22.39	8.22	0.88	2.88
	Asian	4,832	44	29.90	7.59	0.88	2.67
	Hispanic	14,703	44	22.42	8.26	0.88	2.89
	Native American	168	44	23.90	8.37	0.88	2.85
	White	39,706	44	27.51	7.71	0.87	2.75
	Pacific Islander/Hawaiian	67	44	25.70	8.51	0.88	2.90
	Multi-race	2,986	44	27.22	8.18	0.89	2.77
	Male	35,337	44	25.27	8.32	0.89	2.78
	Female	33,470	44	26.96	8.16	0.88	2.80
	Limited English Proficient	8,057	44	18.93	7.60	0.85	2.91
	Former LEP	4,483	44	28.13	6.95	0.84	2.77
	LEPFLEP	12,540	44	22.22	8.59	0.89	2.90
	Special Education	13,437	44	18.95	7.76	0.86	2.86
	Plan 504	3,891	44	25.60	7.43	0.86	2.80
	Title I	34,877	44	23.70	8.27	0.88	2.87

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
5	All Students	71,020	48	28.32	8.94	0.88	3.09
	Economically Disadvantaged	26,191	48	24.41	9.04	0.88	3.13
	African American	6,390	48	24.72	9.10	0.88	3.14
	Asian	5,001	48	32.73	8.28	0.87	3.03
	Hispanic	15,049	48	24.46	9.34	0.89	3.16
	Native American	164	48	25.80	8.82	0.88	3.02
	White	41,502	48	29.71	8.15	0.86	3.03
	Pacific Islander/Hawaiian	54	48	27.43	9.20	0.88	3.19
	Multi-race	2,853	48	28.96	8.91	0.88	3.06
	Male	36,429	48	27.00	8.89	0.88	3.05
	Female	34,585	48	29.72	8.77	0.88	3.09
	Limited English Proficient	6,121	48	18.58	8.30	0.86	3.13
	Former LEP	6,416	48	29.27	7.74	0.84	3.13
	LEPFLEP	12,537	48	24.05	9.64	0.89	3.18
	Special Education	13,706	48	20.24	8.39	0.87	3.05
	Plan 504	4,615	48	27.75	7.96	0.85	3.04
	Title I	32,057	48	25.78	9.16	0.88	3.14
6	All Students	71,289	51	27.55	10.47	0.90	3.26
	Economically Disadvantaged	25,740	51	22.69	10.24	0.90	3.30
	African American	6,470	51	22.92	10.21	0.90	3.27
	Asian	4,944	51	32.82	9.65	0.89	3.13
	Hispanic	14,864	51	22.99	10.56	0.90	3.32
	Native American	155	51	23.30	9.73	0.89	3.26
	White	42,052	51	29.23	9.73	0.89	3.22
	Pacific Islander/Hawaiian	66	51	25.02	11.22	0.91	3.29
	Multi-race	2,729	51	28.32	10.55	0.90	3.25
	Male	36,262	51	25.53	10.42	0.90	3.25
	Female	35,020	51	29.65	10.10	0.90	3.20
	Limited English Proficient	4,730	51	14.78	8.31	0.86	3.10
	Former LEP	7,404	51	27.17	9.04	0.87	3.30
	LEPFLEP	12,134	51	22.34	10.64	0.90	3.32
	Special Education	13,628	51	17.86	9.11	0.88	3.16
	Plan 504	4,874	51	26.42	9.49	0.88	3.25
	Title I	27,957	51	24.39	10.49	0.90	3.31

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
7	All Students	70,150	51	28.18	10.22	0.90	3.29
	Economically Disadvantaged	24,523	51	23.16	9.98	0.89	3.35
	African American	6,343	51	23.49	9.90	0.89	3.34
	Asian	4,713	51	33.44	9.21	0.89	3.12
	Hispanic	14,348	51	23.28	10.13	0.89	3.35
	Native American	142	51	26.15	10.29	0.90	3.32
	White	42,001	51	29.95	9.49	0.88	3.23
	Pacific Islander/Hawaiian	60	51	29.72	9.89	0.89	3.28
	Multi-race	2,531	51	28.78	10.52	0.90	3.29
	Male	35,874	51	26.20	10.22	0.90	3.27
	Female	34,264	51	30.26	9.80	0.89	3.23
	Limited English Proficient	4,674	51	16.02	7.97	0.84	3.21
	Former LEP	6,585	51	27.26	8.87	0.86	3.33
	LEPFLEP	11,259	51	22.60	10.15	0.89	3.36
	Special Education	13,323	51	18.72	8.77	0.87	3.22
	Plan 504	4,847	51	26.99	9.32	0.88	3.29
	Title I	24,563	51	24.78	10.18	0.89	3.35
8	All Students	69,820	51	29.14	10.33	0.90	3.24
	Economically Disadvantaged	23,319	51	23.82	10.08	0.89	3.29
	African American	6,230	51	24.42	9.91	0.89	3.28
	Asian	4,726	51	34.52	9.42	0.89	3.06
	Hispanic	13,521	51	23.79	10.22	0.90	3.30
	Native American	162	51	25.21	10.16	0.90	3.23
	White	42,683	51	30.88	9.59	0.89	3.19
	Pacific Islander/Hawaiian	60	51	28.70	10.87	0.91	3.35
	Multi-race	2,426	51	30.12	10.49	0.90	3.23
	Male	35,588	51	26.89	10.37	0.90	3.24
	Female	34,210	51	31.47	9.77	0.90	3.16
	Limited English Proficient	4,593	51	15.78	7.65	0.83	3.14
	Former LEP	4,548	51	26.92	8.67	0.86	3.27
	LEPFLEP	9,141	51	21.33	9.89	0.89	3.29
	Special Education	12,634	51	19.47	8.95	0.87	3.18
	Plan 504	5,163	51	28.18	9.26	0.88	3.23
	Title I	23,395	51	25.60	10.30	0.90	3.29

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
10	All Students	69,411	51	37.76	9.23	0.90	2.88
	Economically Disadvantaged	21,065	51	32.63	10.44	0.91	3.16
	African American	6,161	51	32.87	10.07	0.90	3.14
	Asian	4,742	51	41.35	7.74	0.89	2.53
	Hispanic	12,450	51	31.94	10.81	0.91	3.19
	Native American	171	51	36.67	8.37	0.88	2.93
	White	43,695	51	39.68	7.70	0.87	2.73
	Pacific Islander/Hawaiian	46	51	36.59	9.32	0.90	2.98
	Multi-race	2,146	51	38.85	8.45	0.89	2.80
	Male	35,034	51	36.50	9.70	0.91	2.95
	Female	34,332	51	39.04	8.54	0.90	2.76
	Limited English Proficient	3,898	51	20.33	8.87	0.86	3.32
	Former LEP	3,170	51	34.24	7.96	0.85	3.09
	LEPFLEP	7,068	51	26.57	10.94	0.91	3.32
	Special Education	11,292	51	29.48	9.82	0.89	3.22
	Plan 504	5,166	51	38.57	7.46	0.86	2.81
	Title I	19,626	51	33.85	10.10	0.91	3.09

Table O-2. Subgroup Reliabilities—Mathematics

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
3	All Students	66,993	48	28.20	11.19	0.93	3.03
	Economically Disadvantaged	24,816	48	23.15	11.05	0.93	3.02
	African American	5,882	48	22.88	10.97	0.92	3.01
	Asian	4,757	48	34.81	9.66	0.91	2.87
	Hispanic	14,357	48	23.22	11.13	0.93	3.03
	Native American	127	48	26.11	11.52	0.93	3.10
	White	38,901	48	29.96	10.42	0.92	3.02
	Pacific Islander/Hawaiian	42	48	29.31	10.32	0.92	2.97
	Multi-race	2,909	48	29.25	11.18	0.93	3.03
	Male	34,268	48	28.46	11.39	0.93	3.02
	Female	32,721	48	27.93	10.98	0.92	3.04
	Limited English Proficient	9,190	48	21.14	10.77	0.92	3.00
	Former LEP	3,348	48	31.47	10.48	0.92	2.99
	LEPFLEP	12,538	48	23.90	11.63	0.93	3.03
	Special Education	12,715	48	19.21	10.82	0.92	2.97
	Plan 504	3,230	48	27.08	10.52	0.92	3.06
	Title I	33,849	48	25.04	11.18	0.93	3.03
4	All Students	68,793	54	33.24	11.78	0.92	3.25
	Economically Disadvantaged	25,749	54	27.86	11.66	0.92	3.32
	African American	6,334	54	27.09	11.48	0.92	3.32
	Asian	4,837	54	40.66	9.93	0.91	2.99
	Hispanic	14,719	54	28.08	11.73	0.92	3.33
	Native American	168	54	30.47	11.28	0.91	3.32
	White	39,673	54	35.18	10.90	0.91	3.18
	Pacific Islander/Hawaiian	67	54	32.06	12.20	0.93	3.30
	Multi-race	2,987	54	34.13	11.69	0.92	3.21
	Male	35,330	54	33.69	12.10	0.93	3.26
	Female	33,461	54	32.76	11.40	0.92	3.23
	Limited English Proficient	8,074	54	24.78	11.34	0.91	3.34
	Former LEP	4,477	54	36.53	10.40	0.91	3.15
	LEPFLEP	12,551	54	28.98	12.37	0.93	3.34
	Special Education	13,430	54	23.21	11.57	0.92	3.35
	Plan 504	3,888	54	32.58	11.04	0.91	3.26
	Title I	34,886	54	29.90	11.74	0.92	3.30

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
5	All Students	71,017	54	29.67	12.28	0.91	3.59
	Economically Disadvantaged	26,189	54	23.83	11.44	0.90	3.57
	African American	6,398	54	24.19	11.38	0.90	3.57
	Asian	5,007	54	38.47	11.14	0.91	3.27
	Hispanic	15,057	54	23.99	11.58	0.90	3.58
	Native American	164	54	27.22	12.06	0.91	3.60
	White	41,479	54	31.49	11.56	0.91	3.54
	Pacific Islander/Hawaiian	54	54	28.02	12.37	0.92	3.52
	Multi-race	2,850	54	30.05	12.67	0.92	3.59
	Male	36,432	54	29.52	12.69	0.92	3.59
	Female	34,580	54	29.82	11.83	0.91	3.59
	Limited English Proficient	6,137	54	19.03	10.36	0.89	3.42
	Former LEP	6,420	54	30.69	11.34	0.90	3.55
	LEPFLEP	12,557	54	24.99	12.33	0.92	3.59
	Special Education	13,699	54	19.12	10.74	0.90	3.46
	Plan 504	4,608	54	28.33	11.50	0.90	3.60
	Title I	32,067	54	25.78	11.79	0.91	3.59
6	All Students	71,261	54	30.17	12.95	0.93	3.50
	Economically Disadvantaged	25,719	54	23.75	11.88	0.92	3.46
	African American	6,460	54	23.53	11.81	0.91	3.45
	Asian	4,951	54	39.86	11.77	0.93	3.18
	Hispanic	14,871	54	23.87	12.04	0.92	3.46
	Native American	155	54	25.49	12.14	0.92	3.44
	White	42,018	54	32.26	12.10	0.92	3.46
	Pacific Islander/Hawaiian	66	54	26.42	12.33	0.92	3.48
	Multi-race	2,727	54	30.90	13.45	0.93	3.48
	Male	36,270	54	29.89	13.30	0.93	3.51
	Female	34,984	54	30.46	12.57	0.92	3.48
	Limited English Proficient	4,745	54	17.40	10.44	0.90	3.26
	Former LEP	7,397	54	29.54	12.06	0.92	3.49
	LEPFLEP	12,142	54	24.80	12.90	0.93	3.49
	Special Education	13,612	54	18.68	10.79	0.91	3.32
	Plan 504	4,864	54	28.93	11.64	0.91	3.50
	Title I	27,946	54	26.00	12.42	0.92	3.49

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
7	All Students	70,125	54	25.39	13.23	0.93	3.47
	Economically Disadvantaged	24,490	54	18.74	11.17	0.91	3.35
	African American	6,330	54	18.59	11.02	0.91	3.35
	Asian	4,716	54	35.79	13.35	0.94	3.24
	Hispanic	14,358	54	18.90	11.35	0.91	3.36
	Native American	142	54	23.64	12.67	0.92	3.48
	White	41,970	54	27.41	12.64	0.93	3.46
	Pacific Islander/Hawaiian	62	54	27.03	14.20	0.94	3.55
	Multi-race	2,535	54	26.25	14.04	0.94	3.48
	Male	35,870	54	25.02	13.40	0.93	3.46
	Female	34,243	54	25.77	13.05	0.93	3.47
	Limited English Proficient	4,697	54	13.20	8.63	0.88	3.05
	Former LEP	6,575	54	23.62	12.02	0.92	3.41
	LEPFLEP	11,272	54	19.28	11.91	0.92	3.37
	Special Education	13,278	54	14.63	9.26	0.89	3.13
	Plan 504	4,841	54	23.73	11.92	0.92	3.43
	Title I	24,547	54	20.81	11.97	0.92	3.41
8	All Students	69,799	54	29.92	12.93	0.93	3.39
	Economically Disadvantaged	23,313	54	23.02	11.80	0.92	3.37
	African American	6,222	54	23.38	11.65	0.92	3.38
	Asian	4,729	54	39.82	11.77	0.93	3.03
	Hispanic	13,539	54	23.10	11.99	0.92	3.37
	Native American	164	54	25.04	12.28	0.92	3.39
	White	42,644	54	31.93	12.05	0.92	3.34
	Pacific Islander/Hawaiian	60	54	28.72	13.26	0.94	3.31
	Multi-race	2,428	54	30.60	13.75	0.94	3.40
	Male	35,602	54	29.31	13.31	0.93	3.40
	Female	34,175	54	30.56	12.48	0.93	3.37
	Limited English Proficient	4,608	54	16.35	9.19	0.89	3.11
	Former LEP	4,543	54	27.68	11.91	0.92	3.37
	LEPFLEP	9,151	54	21.97	12.05	0.92	3.35
	Special Education	12,615	54	18.19	10.17	0.90	3.22
	Plan 504	5,160	54	28.53	11.75	0.92	3.38
	Title I	23,404	54	25.44	12.47	0.93	3.39

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
10	All Students	69,477	60	35.10	14.57	0.94	3.57
	Economically Disadvantaged	20,930	60	26.90	13.68	0.93	3.56
	African American	6,098	60	26.93	13.54	0.93	3.56
	Asian	4,756	60	45.15	12.90	0.94	3.19
	Hispanic	12,462	60	26.28	13.60	0.93	3.55
	Native American	173	60	30.50	14.24	0.94	3.60
	White	43,783	60	37.64	13.41	0.93	3.50
	Pacific Islander/Hawaiian	46	60	34.78	12.18	0.91	3.74
	Multi-race	2,159	60	35.83	14.82	0.94	3.56
	Male	35,045	60	34.63	14.95	0.94	3.56
	Female	34,388	60	35.58	14.16	0.94	3.56
	Limited English Proficient	3,863	60	16.99	9.95	0.90	3.22
	Former LEP	3,169	60	29.83	13.38	0.93	3.56
	LEPFLEP	7,032	60	22.78	13.26	0.93	3.46
	Special Education	11,181	60	21.58	11.94	0.92	3.43
	Plan 504	5,173	60	35.03	12.97	0.92	3.56
	Title I	19,565	60	28.74	13.91	0.93	3.58

Table O-3. Subgroup Reliabilities—STE

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
5	All Students	70,997	54	31.39	10.05	0.90	3.25
	Economically Disadvantaged	26,173	54	26.63	9.84	0.89	3.32
	African American	6,399	54	25.96	9.76	0.88	3.32
	Asian	5,005	54	36.01	9.42	0.89	3.12
	Hispanic	15,045	54	26.37	9.93	0.89	3.32
	Native American	164	54	30.28	9.78	0.89	3.31
	White	41,477	54	33.44	9.13	0.88	3.20
	Pacific Islander/Hawaiian	54	54	29.50	10.40	0.89	3.37
	Multi-race	2,845	54	32.26	10.25	0.90	3.22
	Male	36,408	54	31.50	10.28	0.90	3.23
	Female	34,584	54	31.27	9.80	0.89	3.26
	Limited English Proficient	6,138	54	20.55	8.47	0.85	3.29
	Former LEP	6,420	54	31.20	8.94	0.87	3.28
	LEPFLEP	12,558	54	26.00	10.21	0.89	3.32
	Special Education	13,720	54	23.59	9.76	0.89	3.29
	Plan 504	4,596	54	31.56	9.48	0.88	3.24
	Title I	32,053	54	28.00	10.01	0.89	3.30
8	All Students	69,605	54	29.13	10.30	0.90	3.24
	Economically Disadvantaged	23,203	54	23.46	9.38	0.88	3.25
	African American	6,197	54	22.97	8.93	0.87	3.24
	Asian	4,723	54	34.05	9.95	0.90	3.16
	Hispanic	13,494	54	23.03	9.41	0.88	3.23
	Native American	162	54	25.35	9.96	0.89	3.29
	White	42,541	54	31.37	9.53	0.89	3.22
	Pacific Islander/Hawaiian	60	54	27.37	10.43	0.90	3.27
	Multi-race	2,415	54	30.31	10.59	0.91	3.22
	Male	35,495	54	29.09	10.54	0.91	3.22
	Female	34,088	54	29.17	10.04	0.90	3.25
	Limited English Proficient	4,589	54	16.37	6.73	0.79	3.10
	Former LEP	4,530	54	25.46	8.53	0.85	3.27
	LEPFLEP	9,119	54	20.88	8.92	0.87	3.22
	Special Education	12,544	54	20.96	9.05	0.87	3.21
	Plan 504	5,134	54	29.38	9.59	0.89	3.24
	Title I	23,339	54	24.85	9.74	0.89	3.25

Table O-4. Subgroup Reliabilities—Alt/ELA

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
3	All Students	939	39	28.97	3.42	0.68	1.94
	Economically Disadvantaged	620	39	29.09	3.42	0.71	1.83
	African American	165	39	29.04	3.75	0.71	2.01
	Asian	46	39	27.63	4.32	0.61	2.71
	Hispanic	271	39	29.15	3.42	0.72	1.81
	Native American	3					
	White	411	39	28.91	3.19	0.65	1.88
	Pacific Islander/Hawaiian	1					
	Multi-race	42	39	29.69	2.87	0.54	1.94
	Male	676	39	28.87	3.56	0.69	1.97
	Female	263	39	29.23	3.03	0.63	1.83
	LEP	164	39	29.57	3.48	0.69	1.94
	FLEP	27	39	28.07	3.32	0.73	1.71
	LEPFLEP	191	39	29.36	3.49	0.70	1.91
	Special Education	932	39	28.97	3.43	0.68	1.94
	Plan 504	4					
	Title I	543	39	29.47	3.22	0.67	1.85
4	All Students	968	39	29.22	3.29	0.67	1.89
	Economically Disadvantaged	627	39	29.30	3.36	0.68	1.89
	African American	157	39	29.43	3.40	0.72	1.79
	Asian	69	39	28.70	3.59	0.68	2.03
	Hispanic	288	39	29.44	3.28	0.67	1.89
	Native American	0					
	White	418	39	29.09	3.22	0.66	1.88
	Pacific Islander/Hawaiian	0					
	Multi-race	35	39	29.00	3.24	0.54	2.20
	Male	682	39	29.14	3.28	0.65	1.92
	Female	286	39	29.40	3.33	0.71	1.81
	LEP	169	39	30.00	2.71	0.64	1.62
	FLEP	26	39	30.62	2.67	0.40	2.07
	LEPFLEP	195	39	30.08	2.71	0.63	1.65
	Special Education	966	39	29.22	3.29	0.67	1.90
	Plan 504	8					
	Title I	547	39	29.83	2.98	0.61	1.85
5	All Students	1,056	39	29.12	3.40	0.65	2.01
	Economically Disadvantaged	695	39	29.09	3.49	0.70	1.92
	African American	157	39	29.34	3.12	0.58	2.02
	Asian	60	39	28.90	3.20	0.63	1.95
	Hispanic	344	39	29.33	3.28	0.60	2.07
	Native American	4					
	White	452	39	28.91	3.61	0.69	2.02
	Pacific Islander/Hawaiian	0					
	Multi-race	38	39	29.00	3.21	0.70	1.77

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
5	Male	723	39	29.12	3.39	0.62	2.08
	Female	333	39	29.11	3.43	0.70	1.87
	LEP	174	39	29.68	3.08	0.56	2.04
	FLEP	35	39	29.49	2.28	0.38	1.80
	LEPFLEP	209	39	29.65	2.96	0.54	2.01
	Special Education	1,049	39	29.12	3.40	0.65	2.01
	Plan 504	7					
6	Title I	556	39	29.59	3.06	0.58	1.98
	All Students	908	39	28.97	3.70	0.65	2.18
	Economically Disadvantaged	583	39	28.95	3.72	0.69	2.08
	African American	146	39	29.27	3.59	0.70	1.98
	Asian	45	39	28.58	3.95	0.73	2.04
	Hispanic	269	39	29.25	3.60	0.70	1.97
	Native American	1					
	White	407	39	28.83	3.67	0.59	2.36
	Pacific Islander/Hawaiian	0					
	Multi-race	40	39	27.78	4.55	0.64	2.71
	Male	619	39	29.14	3.55	0.60	2.25
	Female	289	39	28.62	3.98	0.72	2.11
	LEP	130	39	29.55	3.37	0.66	1.98
	FLEP	38	39	29.89	3.10	0.72	1.63
	LEPFLEP	168	39	29.63	3.31	0.67	1.89
	Special Education	906	39	28.97	3.70	0.66	2.17
	Plan 504	6					
	Title I	413	39	28.98	3.65	0.64	2.19
7	All Students	954	39	29.01	3.52	0.64	2.10
	Economically Disadvantaged	562	39	29.07	3.56	0.68	2.02
	African American	144	39	29.28	4.03	0.70	2.19
	Asian	64	39	28.86	3.45	0.69	1.90
	Hispanic	264	39	29.37	3.19	0.62	1.96
	Native American	4					
	White	450	39	28.71	3.48	0.60	2.20
	Pacific Islander/Hawaiian	3					
	Multi-race	25	39	29.64	4.32	0.78	2.05
	Male	637	39	29.13	3.45	0.62	2.11
	Female	317	39	28.78	3.66	0.68	2.09
	LEP	111	39	29.99	3.15	0.65	1.86
	FLEP	32	39	30.03	3.01	0.61	1.87
	LEPFLEP	143	39	30.00	3.11	0.64	1.86
	Special Education	948	39	29.04	3.50	0.64	2.09
	Plan 504	4					
	Title I	371	39	29.42	3.42	0.64	2.05

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
8	All Students	898	39	29.05	3.74	0.66	2.18
	Economically Disadvantaged	558	39	28.97	3.88	0.70	2.13
	African American	136	39	29.21	3.86	0.68	2.19
	Asian	48	39	29.65	2.83	0.70	1.55
	Hispanic	256	39	29.52	3.34	0.58	2.15
	Native American	1					
	White	427	39	28.70	3.93	0.66	2.30
	Pacific Islander/Hawaiian	2					
	Multi-race	27	39	28.07	4.57	0.79	2.10
	Male	582	39	28.85	3.81	0.65	2.24
	Female	316	39	29.41	3.60	0.68	2.04
	LEP	107	39	29.81	3.51	0.61	2.18
	FLEP	28	39	30.25	2.50	0.41	1.92
	LEPFLEP	135	39	29.90	3.32	0.58	2.16
	Special Education	896	39	29.06	3.74	0.66	2.18
	Plan 504	9					
	Title I	369	39	29.60	3.36	0.60	2.12
10	All Students	842	39	28.94	3.53	0.60	2.23
	Economically Disadvantaged	499	39	28.94	3.60	0.66	2.11
	African American	136	39	29.24	3.72	0.71	2.01
	Asian	46	39	28.70	3.24	0.38	2.55
	Hispanic	203	39	29.19	3.61	0.65	2.12
	Native American	0					
	White	434	39	28.75	3.47	0.54	2.34
	Pacific Islander/Hawaiian	2					
	Multi-race	21	39	28.67	3.38	0.47	2.46
	Male	575	39	29.00	3.52	0.56	2.34
	Female	267	39	28.79	3.54	0.66	2.07
	LEP	102	39	29.80	3.41	0.64	2.04
	FLEP	18	39	28.72	3.16	0.49	2.25
	LEPFLEP	120	39	29.64	3.38	0.62	2.08
	Special Education	837	39	28.94	3.53	0.60	2.23
	Plan 504	3					
	Title I	257	39	29.41	3.48	0.62	2.15

Note: No reliability or SEM values are reported for some subgroups, because there were some items for which only one student in the subgroup received a score.

Table O-5. Subgroup Reliabilities—Alt/Mathematics

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
3	All Students	892	26	21.26	1.42	0.66	0.83
	Economically Disadvantaged	589	26	21.30	1.44	0.70	0.79
	African American	163	26	21.26	1.64	0.77	0.79
	Asian	43	26	21.23	1.07	0.31	0.88
	Hispanic	255	26	21.49	1.17	0.64	0.70
	Native American	3					
	White	386	26	21.12	1.51	0.66	0.88
	Pacific Islander/Hawaiian	1					
	Multi-race	41	26	21.24	1.32	0.46	0.97
	Male	646	26	21.29	1.44	0.67	0.82
	Female	246	26	21.20	1.40	0.64	0.84
	LEP	152	26	21.65	0.89	0.64	0.53
	FLEP	26	26	21.50	0.95	0.51	0.66
	LEPFLEP	178	26	21.63	0.89	0.62	0.55
	Special Education Plan 504	886	26	21.26	1.43	0.66	0.83
	Title I	5					
4	All Students	515	26	21.50	1.09	0.62	0.68
	All Students	908	26	21.27	1.44	0.66	0.85
	Economically Disadvantaged	578	26	21.35	1.38	0.69	0.77
	African American	146	26	21.45	1.35	0.75	0.68
	Asian	59	26	21.31	1.41	0.72	0.75
	Hispanic	272	26	21.31	1.45	0.68	0.83
	Native American	0					
	White	397	26	21.18	1.45	0.61	0.91
	Pacific Islander/Hawaiian	0					
	Multi-race	33	26	21.09	1.72	0.64	1.04
	Male	635	26	21.29	1.41	0.64	0.85
	Female	273	26	21.21	1.53	0.69	0.84
	LEP	150	26	21.54	1.05	0.67	0.60
	FLEP	25	26	21.72	0.74	0.60	0.47
	LEPFLEP	175	26	21.57	1.01	0.67	0.58
	Special Education Plan 504	906	26	21.27	1.44	0.66	0.84
	Title I	8					
5	All Students	511	26	21.51	1.15	0.62	0.70
	All Students	984	26	21.27	1.37	0.63	0.83
	Economically Disadvantaged	660	26	21.29	1.40	0.66	0.82
	African American	151	26	21.36	1.17	0.53	0.80
	Asian	52	26	21.08	1.44	0.66	0.83
	Hispanic	322	26	21.37	1.22	0.64	0.73
	Native American	4					
	White	420	26	21.17	1.55	0.66	0.91
	Pacific Islander/Hawaiian	0					

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
5	Multi-race	34	26	21.35	1.07	0.33	0.88
	Male	663	26	21.29	1.33	0.62	0.82
	Female	321	26	21.22	1.44	0.64	0.86
	LEP	163	26	21.63	0.81	0.39	0.63
	FLEP	33	26	21.12	1.45	0.69	0.81
	LEPFLEP	196	26	21.54	0.96	0.52	0.67
	Special Education Plan 504	978 6	26	21.26	1.37	0.63	0.84
	Title I	530	26	21.51	1.02	0.51	0.71
6	All Students	862	26	21.35	1.31	0.62	0.81
	Economically Disadvantaged	557	26	21.35	1.32	0.66	0.77
	African American	137	26	21.41	1.13	0.49	0.81
	Asian	44	26	21.02	1.62	0.71	0.87
	Hispanic	258	26	21.49	1.02	0.57	0.67
	Native American	1					
	White	384	26	21.30	1.46	0.65	0.87
	Pacific Islander/Hawaiian	0					
	Multi-race	38	26	21.13	1.53	0.65	0.90
	Male	579	26	21.43	1.14	0.52	0.79
	Female	283	26	21.20	1.59	0.71	0.85
	LEP	115	26	21.54	0.86	0.49	0.61
	FLEP	35	26	21.66	0.68	-0.06	0.70
	LEPFLEP	150	26	21.57	0.82	0.40	0.64
	Special Education Plan 504	860 7	26	21.35	1.31	0.62	0.81
	Title I	393	26	21.46	1.12	0.58	0.73
	7	All Students	885	26	21.35	1.29	0.58
Economically Disadvantaged		516	26	21.36	1.31	0.60	0.84
African American		132	26	21.48	1.26	0.68	0.71
Asian		65	26	21.14	1.58	0.60	1.00
Hispanic		237	26	21.47	1.10	0.55	0.74
Native American		3					
White		422	26	21.29	1.34	0.58	0.87
Pacific Islander/Hawaiian		3					
Multi-race		23	26	21.13	1.42	0.32	1.17
Male		585	26	21.41	1.16	0.51	0.81
Female		300	26	21.22	1.51	0.66	0.89
LEP		103	26	21.47	0.96	0.42	0.73
FLEP		27	26	21.48	1.16	0.63	0.70
LEPFLEP		130	26	21.47	1.00	0.48	0.72
Special Education Plan 504		882 4	26	21.34	1.29	0.58	0.84
Title I		335	26	21.48	1.14	0.61	0.72

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
8	All Students	816	26	21.40	1.25	0.57	0.82
	Economically Disadvantaged	511	26	21.37	1.28	0.58	0.83
	African American	124	26	21.49	1.23	0.62	0.76
	Asian	36	26	21.28	1.45	0.68	0.82
	Hispanic	239	26	21.61	0.93	0.45	0.69
	Native American	1					
	White	386	26	21.30	1.33	0.56	0.88
	Pacific Islander/Hawaiian	2					
	Multi-race	27	26	20.96	1.87	0.63	1.13
	Male	529	26	21.35	1.27	0.57	0.83
	Female	287	26	21.50	1.21	0.56	0.80
	LEP	95	26	21.71	0.87	0.51	0.61
	FLEP	24	26	21.79	1.02	0.67	0.59
	LEPFLEP	119	26	21.72	0.90	0.55	0.61
	Special Education Plan 504	815 9	26	21.41	1.25	0.57	0.82
	Title I	342	26	21.58	0.96	0.51	0.67
10	All Students	826	39	30.83	3.31	0.79	1.50
	Economically Disadvantaged	482	39	30.94	3.19	0.81	1.38
	African American	127	39	30.99	3.41	0.83	1.41
	Asian	44	39	30.77	3.38	0.75	1.70
	Hispanic	196	39	31.02	3.16	0.79	1.44
	Native American	0					
	White	434	39	30.69	3.35	0.80	1.48
	Pacific Islander/Hawaiian	2					
	Multi-race	23	39	30.87	3.55		
	Male	558	39	30.80	3.29	0.76	1.61
	Female	268	39	30.88	3.37	0.84	1.36
	LEP	99	39	31.16	3.27	0.79	1.50
	FLEP	18	39	32.44	0.86		
	LEPFLEP	117	39	31.36	3.06	0.77	1.46
	Special Education Plan 504	821 3	39	30.84	3.31	0.79	1.50
	Title I	246	39	31.09	3.25	0.78	1.54

Note: No reliability or SEM values are reported for some subgroups, because in some cases there were some items for which only one student in the subgroup received a score, and in other cases, the sample size of the subgroup or the number of items is too small to produce meaningful calculations.

Table O-6. Subgroup Reliabilities—Alt/STE

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
5	All Students	949	39	30.02	3.49	0.80	1.55
	Economically Disadvantaged	625	39	30.10	3.48	0.82	1.48
	African American	148	39	30.60	3.25	0.66	1.90
	Asian	53	39	29.83	2.93	0.83	1.21
	Hispanic	307	39	30.06	3.55	0.80	1.57
	Native American	4					
	White	399	39	29.78	3.58	0.81	1.58
	Pacific Islander/Hawaiian	0					
	Multi-race	37	39	30.08	3.62		
	Male	656	39	30.02	3.51	0.81	1.52
	Female	293	39	30.00	3.45	0.75	1.71
	LEP	151	39	30.24	3.44	0.74	1.77
	FLEP	30	39	29.63	3.77		
	LEPFLEP	181	39	30.14	3.50	0.74	1.79
	Special Education	942	39	30.01	3.49	0.80	1.55
	Plan 504	5					
	Title I	507	39	30.41	3.35	0.80	1.51
8	All Students	809	39	30.53	3.28	0.78	1.55
	Economically Disadvantaged	494	39	30.42	3.41	0.80	1.54
	African American	123	39	31.30	2.43	0.71	1.31
	Asian	46	39	30.39	3.33	0.85	1.28
	Hispanic	215	39	30.43	3.23	0.75	1.62
	Native American	1					
	White	396	39	30.35	3.46	0.79	1.59
	Pacific Islander/Hawaiian	2					
	Multi-race	25	39	30.48	3.83	0.72	2.01
	Male	521	39	30.56	3.13	0.78	1.45
	Female	288	39	30.47	3.54	0.76	1.74
	LEP	89	39	30.80	3.02	0.71	1.62
	FLEP	24	39	31.04	3.06	0.71	1.64
	LEPFLEP	113	39	30.85	3.02	0.71	1.62
	Special Education	808	39	30.53	3.27	0.78	1.55
	Plan 504	8					
	Title I	310	39	30.71	3.17	0.77	1.51

Table O-7. Subgroup Reliabilities—Alt/Biology

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	626	39	31.22	2.94	0.69	1.65
	Economically Disadvantaged	388	39	31.39	2.78	0.67	1.59
	African American	106	39	31.73	2.58	0.70	1.42
	Asian	32	39	31.13	2.88	0.51	2.03
	Hispanic	149	39	31.30	2.95	0.68	1.68
	Native American	0					
	White	315	39	30.95	3.08	0.69	1.71
	Pacific Islander/Hawaiian	2					
	Multi-race	22	39	32.00	2.47	N/A*	N/A*
	Male	442	39	31.14	2.95	0.65	1.75
	Female	184	39	31.40	2.93	0.74	1.49
	LEP	75	39	31.24	2.83	0.64	1.71
	FLEP	17	39	31.29	2.47	0.54	1.68
	LEPFLEP	92	39	31.25	2.76	0.59	1.77
	Special Education	624	39	31.22	2.94	0.68	1.65
	Plan 504	1					
	Title I	177	39	31.80	2.47	0.68	1.40

**Due to the small sample size of the subgroup and the small number of items, the calculation of coefficient alpha does not produce meaningful values.*

Table O-8. Subgroup Reliabilities—Alt/Chemistry

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	38	39	32.21	1.83	0.77	0.87
	Economically Disadvantaged	22	39	32.45	1.53	0.83	0.64
	African American	3					
	Asian	3					
	Hispanic	10	39	31.20	3.08	0.85	1.18
	Native American	0					
	White	21	39	32.43	1.08	0.61	0.67
	Pacific Islander/Hawaiian	0					
	Multi-race	1					
	Male	23	39	31.91	2.23	0.80	1.00
	Female	15	39	32.67	0.82	0.58	0.53
	LEP	6					
	FLEP	0					
	LEPFLEP	6					
	Special Education	36	39	32.36	1.55	0.59	1.00
	Plan 504	1					
	Title I	11	39	32.09	2.39	N/A*	N/A*

**Due to the small sample size of the subgroup and the small number of items, the calculation of coefficient alpha does not produce meaningful values.*

Table O-9. Subgroup Reliabilities—Alt/Introductory Physics

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
HS	All Students	59	39	30.56	3.59	0.77	1.71
	Economically Disadvantaged	38	39	30.42	2.82	0.71	1.52
	African American	13	39	31.00	2.86	0.70	1.56
	Asian	3					
	Hispanic	13	39	30.31	2.81	0.75	1.40
	Native American	0					
	White	30	39	30.33	4.31	0.83	1.77
	Pacific Islander/Hawaiian	0					
	Multi-race	0					
	Male	36	39	30.17	4.00	0.81	1.74
	Female	23	39	31.17	2.81	0.72	1.50
	LEP	6					
	FLEP	1					
	LEPFLEP	7					
	Special Education	59	39	30.56	3.59	0.77	1.71
	Plan 504	0					
	Title I	27	39	31.59	2.34	0.64	1.40

Table O-10. Subgroup Reliabilities—Alt/Technology/Engineering

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
HS	All Students	85	39	31.22	2.59	0.58	1.68
	Economically Disadvantaged	37	39	31.70	2.08	0.61	1.30
	African American	5					
	Asian	10	39	31.10	2.73	0.69	1.52
	Hispanic	12	39	31.67	2.71	0.68	1.54
	Native American	0					
	White	56	39	31.16	2.51	0.55	1.69
	Pacific Islander/Hawaiian	1					
	Multi-race	1					
	Male	60	39	31.10	2.71	0.59	1.74
	Female	25	39	31.52	2.29	0.57	1.50
	LEP	4					
	FLEP	0					
	LEPFLEP	4					
	Special Education	85	39	31.22	2.59	0.58	1.68
	Plan 504	1					
	Title I	16	39	32.00	2.37	0.64	1.41

Table O-11. Reliabilities by Reporting Category by Grade—ELA

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
3	Reading	19	27	17.74	5.10	0.79	2.33
	Language	5	9	4.74	1.89	0.57	1.24
	Writing	2	8	2.74	1.46	0.60	0.92
4	Reading	18	25	17.03	5.07	0.82	2.17
	Language	6	11	6.23	2.46	0.67	1.41
	Writing	2	8	2.83	1.60	0.70	0.87
5	Reading	18	23	16.19	4.73	0.79	2.17
	Language	7	13	7.57	2.74	0.69	1.52
	Writing	3	12	4.57	2.50	0.72	1.33
6	Reading	18	24	14.90	5.33	0.81	2.34
	Language	6	12	7.09	3.19	0.77	1.53
	Writing	3	15	5.57	2.98	0.84	1.19
7	Reading	18	24	15.62	5.32	0.80	2.39
	Language	6	12	6.92	3.09	0.74	1.57
	Writing	3	15	5.64	2.86	0.83	1.18
8	Reading	18	24	15.10	5.08	0.79	2.31
	Language	6	12	7.78	3.19	0.78	1.48
	Writing	3	15	6.25	3.08	0.85	1.17
10	Reading	25	32	25.29	5.93	0.86	2.20
	Language	5	9	7.10	2.00	0.66	1.17
	Writing	2	10	5.38	2.16	0.82	0.93

Table O-12. Reliabilities by Reporting Category by Grade—Mathematics

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	Operations and Algebraic Thinking	13	15	9.78	3.99	0.83	1.66
	Number and Operations in Base Ten	6	8	4.14	2.14	0.68	1.21
	Number and Operations-Fractions	7	9	5.19	2.50	0.70	1.36
	Measurement and Data	10	12	6.88	2.93	0.73	1.52
	Geometry	4	4	2.21	1.24	0.53	0.85
4	Operations and Algebraic Thinking	7	11	7.35	2.75	0.66	1.59
	Number and Operations in Base Ten	8	11	6.63	2.62	0.69	1.46
	Number and Operations-Fractions	13	16	10.03	3.94	0.82	1.66
	Measurement and Data	7	10	5.39	2.54	0.67	1.47
	Geometry	5	6	3.84	1.57	0.59	1.00
5	Operations and Algebraic Thinking	5	8	4.31	2.22	0.58	1.44
	Number and Operations in Base Ten	14	17	9.80	3.97	0.79	1.81
	Number and Operations-Fractions	9	13	6.14	3.36	0.68	1.89
	Measurement and Data	7	10	5.48	2.95	0.66	1.72
	Geometry	5	6	3.94	1.49	0.50	1.05
6	Ratios and Proportional Relationships	8	11	6.77	2.80	0.70	1.54
	The Number System	10	11	6.07	2.87	0.78	1.34
	Expressions and Equations	13	16	10.35	4.02	0.80	1.78
	Geometry	5	8	3.65	2.46	0.59	1.57
	Statistics and Probability	4	8	3.33	2.47	0.61	1.55
7	Ratios and Proportional Relationships	8	11	5.84	2.98	0.72	1.58
	The Number System	9	10	5.38	2.67	0.75	1.34
	Expressions and Equations	11	14	6.60	3.78	0.81	1.63
	Geometry	4	8	3.54	2.21	0.52	1.54
	Statistics and Probability	8	11	4.03	3.03	0.68	1.72
8	The Number System & Expressions /Equations	17	21	11.40	5.61	0.87	2.02
	Functions	7	11	5.92	2.88	0.61	1.80
	Geometry	13	16	9.69	3.98	0.81	1.75
	Statistics and Probability	3	6	2.91	1.57	0.45	1.16
10	Number and Quantity	4	9	4.71	2.24	0.64	1.35
	Algebra and Functions	16	21	12.41	5.68	0.85	2.19
	Geometry	17	21	12.68	5.33	0.86	1.99
	Statistics and Probability	5	9	5.31	2.43	0.63	1.48

Table O-13. Reliabilities by Reporting Category by Grade—STE

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			<i>Maximum</i>	<i>Mean</i>	<i>Standard Deviation</i>		
5	Earth and Space Science	10	14	7.26	3.04	0.68	1.73
	Life Science	10	14	9.23	3.07	0.71	1.64
	Physical Science	11	14	7.49	2.72	0.64	1.63
	Technology/Engineering	10	12	7.41	2.69	0.70	1.47
8	Earth and Space Science	10	14	7.60	3.00	0.70	1.64
	Life Science	11	14	7.50	3.02	0.72	1.60
	Physical Science	10	13	6.85	3.11	0.74	1.58
	Technology/Engineering	10	13	7.19	2.63	0.60	1.66