

APPENDIX M
CLASSICAL RELIABILITY AND SEM

Table M-1. Subgroup Reliabilities—ELA

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
3	All Students	60,542	44	25.01	9.51	0.91	2.81
	EL/FEL	12,677	44	19.70	9.47	0.91	2.91
	Low Income	25,543	44	20.56	9.14	0.90	2.91
	African American/Black	5,170	44	21.34	9.25	0.90	2.91
	Asian	4,570	44	29.33	8.60	0.90	2.69
	Hispanic/Latino	13,903	44	19.87	9.23	0.90	2.90
	Native American	126	44	22.12	9.12	0.90	2.87
	White	33,643	44	26.96	8.71	0.90	2.75
	Pacific Islander/Hawaiian	44	44	27.80	8.72	0.91	2.66
	Multi-Race; Non-Hispanic/Latino	2,996	44	26.91	9.38	0.91	2.75
	Male	30,519	44	24.41	9.48	0.91	2.80
	Female	29,927	44	25.63	9.48	0.91	2.81
	Title 1	32,938	44	22.08	9.38	0.91	2.88
	English Learner	9,276	44	16.70	7.90	0.86	2.92
	Former EL	3,401	44	27.90	8.49	0.89	2.77
	SWD	10,616	44	18.12	8.66	0.89	2.87
Plan504	2,846	44	25.31	8.69	0.90	2.80	
4	All Students	61,836	44	25.59	8.43	0.88	2.86
	EL/FEL	11,917	44	20.91	8.40	0.87	2.97
	Low Income	26,196	44	21.82	8.07	0.87	2.96
	African American/Black	5,573	44	22.38	8.15	0.87	2.94
	Asian	4,889	44	29.56	7.71	0.88	2.72
	Hispanic/Latino	14,110	44	21.26	8.12	0.87	2.97
	Native American	136	44	20.99	9.06	0.90	2.86
	White	34,090	44	27.26	7.78	0.87	2.81
	Pacific Islander/Hawaiian	55	44	24.07	8.36	0.88	2.84
	Multi-Race; Non-Hispanic/Latino	2,911	44	27.01	8.40	0.89	2.81
	Male	31,061	44	25.18	8.38	0.88	2.86
	Female	30,692	44	26.02	8.44	0.89	2.86
	Title 1	32,939	44	23.11	8.27	0.87	2.93
	English Learner	8,126	44	17.63	6.96	0.81	3.00
	Former EL	3,791	44	27.95	6.74	0.83	2.82
	SWD	11,088	44	19.13	7.87	0.86	2.96
Plan504	3,539	44	25.94	7.46	0.85	2.85	
5	All Students	62,316	48	28.76	9.43	0.90	2.96
	EL/FEL	12,016	48	23.80	9.98	0.90	3.09
	Low Income	26,253	48	24.65	9.48	0.90	3.07
	African American/Black	5,603	48	25.50	9.56	0.90	3.05
	Asian	4,856	48	33.41	8.16	0.88	2.77
	Hispanic/Latino	14,213	48	24.12	9.62	0.90	3.08
	Native American	126	48	26.10	9.96	0.91	2.96
	White	34,450	48	30.46	8.56	0.89	2.89
	Pacific Islander/Hawaiian	39	48	28.72	9.48	0.90	2.98
	Multi-Race; Non-Hispanic/Latino	2,935	48	30.35	9.25	0.90	2.89
	Male	31,473	48	27.66	9.52	0.90	2.97
	Female	30,727	48	29.91	9.17	0.90	2.92
	Title 1	29,429	48	26.04	9.61	0.90	3.05
	English Learner	5,396	48	17.01	7.91	0.85	3.09
	Former EL	6,620	48	29.34	7.85	0.86	2.97
	SWD	11,470	48	20.96	9.09	0.89	3.07
Plan504	4,069	48	29.12	8.21	0.87	2.93	
6	All Students	63,574	50	27.63	9.90	0.90	3.17
	EL/FEL	11,732	50	21.60	9.63	0.89	3.23
	Low Income	26,861	50	23.09	9.55	0.89	3.21
	African American/Black	5,769	50	23.96	9.43	0.88	3.20

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
6	Asian	4,738	50	32.23	9.00	0.88	3.06	
	Hispanic/Latino	14,653	50	22.51	9.73	0.89	3.21	
	Native American	163	50	24.25	9.92	0.89	3.27	
	White	35,213	50	29.66	9.08	0.88	3.12	
	Pacific Islander/Hawaiian	65	50	27.92	10.13	0.90	3.21	
	Multi-Race; Non-Hispanic/Latino	2,886	50	29.24	9.95	0.90	3.15	
	Male	32,267	50	26.23	9.86	0.90	3.17	
	Female	31,174	50	29.10	9.71	0.89	3.15	
	Title 1	27,358	50	24.34	9.84	0.89	3.22	
	English Learner	4,483	50	14.34	6.67	0.80	3.00	
	Former EL	7,249	50	26.08	8.37	0.85	3.24	
	SWD	11,624	50	19.49	8.81	0.87	3.12	
Plan504	4,460	50	27.71	8.95	0.88	3.15		
7	All Students	63,711	50	27.50	10.71	0.90	3.44	
	EL/FEL	10,897	50	20.13	9.57	0.88	3.38	
	Low Income	26,689	50	22.48	9.90	0.88	3.41	
	African American/Black	5,849	50	23.28	9.78	0.88	3.43	
	Asian	4,712	50	33.36	9.93	0.89	3.32	
	Hispanic/Latino	14,597	50	21.92	10.05	0.89	3.40	
	Native American	136	50	24.63	10.18	0.89	3.44	
	White	35,532	50	29.63	9.99	0.88	3.41	
	Pacific Islander/Hawaiian	52	50	29.63	9.94	0.89	3.27	
	Multi-Race; Non-Hispanic/Latino	2,757	50	29.01	10.92	0.90	3.40	
	Male	32,368	50	26.06	10.56	0.90	3.39	
	Female	31,181	50	29.01	10.64	0.89	3.45	
	Title 1	26,827	50	23.74	10.30	0.89	3.43	
	English Learner	4,731	50	14.04	6.60	0.78	3.10	
	Former EL	6,166	50	24.80	8.84	0.85	3.46	
SWD	11,364	50	18.97	9.05	0.87	3.26		
Plan504	4,920	50	27.70	9.69	0.88	3.41		
8	All Students	65,553	50	30.67	9.96	0.90	3.22	
	EL/FEL	9,971	50	23.05	9.91	0.89	3.34	
	Low Income	27,584	50	26.27	9.92	0.89	3.30	
	African American/Black	6,215	50	27.20	9.61	0.88	3.27	
	Asian	4,917	50	36.30	8.57	0.88	2.96	
	Hispanic/Latino	15,012	50	25.89	10.11	0.89	3.31	
	Native American	160	50	28.48	9.82	0.89	3.28	
	White	36,259	50	32.44	9.10	0.88	3.15	
	Pacific Islander/Hawaiian	66	50	30.33	11.42	0.92	3.24	
	Multi-Race; Non-Hispanic/Latino	2,824	50	31.69	9.96	0.90	3.19	
	Male	33,468	50	29.19	10.16	0.90	3.25	
	Female	31,846	50	32.23	9.47	0.89	3.15	
	Title 1	27,405	50	27.41	10.03	0.89	3.27	
	English Learner	4,427	50	16.62	7.54	0.82	3.21	
	Former EL	5,544	50	28.19	8.48	0.85	3.29	
SWD	11,479	50	22.39	9.25	0.88	3.26		
Plan504	5,308	50	30.92	8.94	0.87	3.20		
10	All Students	68,104	51	34.77	10.17	0.91	3.13	
	EL/FEL	7,414	51	22.73	11.02	0.90	3.44	
	Low Income	26,918	51	30.35	10.62	0.90	3.31	
	African American/Black	6,199	51	31.85	9.72	0.89	3.22	
	Asian	4,987	51	39.97	8.05	0.89	2.71	
	Hispanic/Latino	15,392	51	29.36	11.27	0.91	3.34	
	Native American	152	51	30.95	10.34	0.90	3.26	
	White	37,785	51	37.19	8.27	0.87	2.99	
	Pacific Islander/Hawaiian	65	51	32.38	9.89	0.89	3.24	
	Multi-Race; Non-Hispanic/Latino	2,568	51	36.51	9.32	0.89	3.04	
Male	34,114	51	33.89	10.21	0.90	3.17		

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
10	Female	32,727	51	36.25	9.39	0.90	3.01	
	Title 1	23,956	51	31.71	10.52	0.90	3.27	
	English Learner	4,858	51	17.62	8.66	0.85	3.32	
	Former EL	2,556	51	32.44	8.12	0.84	3.24	
	SWD	10,238	51	27.47	9.71	0.88	3.34	
	Plan504	5,950	51	36.10	8.20	0.86	3.06	

Form 1, predominantly given to students with the text-to-speech special access accommodation, is excluded from these results.

Table M-2. Subgroup Reliabilities—Mathematics

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
3	All Students	51,707	48	29.38	11.52	0.93	2.99	
	EL/FEL	6,924	48	26.36	12.46	0.94	3.02	
	Low Income	19,183	48	23.78	11.40	0.93	3.07	
	African American/Black	4,312	48	23.12	11.52	0.93	3.06	
	Asian	4,155	48	35.95	9.90	0.93	2.71	
	Hispanic/Latino	9,371	48	23.44	11.61	0.93	3.05	
	Native American	97	48	25.36	11.55	0.93	3.08	
	White	30,909	48	31.08	10.56	0.92	2.95	
	Pacific Islander/Hawaiian	39	48	31.64	10.80	0.92	2.97	
	Multi-Race; Non-Hispanic/Latino	2,781	48	30.40	11.58	0.93	2.96	
	Male	25,677	48	30.33	11.60	0.94	2.95	
	Female	25,989	48	28.42	11.35	0.93	3.02	
	Title 1	26,069	48	25.86	11.57	0.93	3.05	
	English Learner	3,638	48	21.48	11.37	0.93	3.05	
	Former EL	3,286	48	31.77	11.35	0.93	2.90	
	SWD	6,527	48	21.78	11.97	0.94	3.04	
Plan504	2,620	48	28.35	11.07	0.93	3.02		
4	All Students	52,554	54	33.18	11.79	0.93	3.22	
	EL/FEL	6,460	54	29.68	12.76	0.93	3.28	
	Low Income	19,659	54	27.32	11.61	0.92	3.29	
	African American/Black	4,615	54	26.28	11.79	0.92	3.29	
	Asian	4,465	54	40.32	10.24	0.92	2.96	
	Hispanic/Latino	9,717	54	27.02	11.69	0.92	3.28	
	Native American	94	54	27.90	11.88	0.92	3.26	
	White	30,889	54	35.06	10.65	0.91	3.17	
	Pacific Islander/Hawaiian	48	54	31.13	12.29	0.93	3.14	
	Multi-Race; Non-Hispanic/Latino	2,692	54	34.00	12.36	0.93	3.22	
	Male	26,052	54	34.33	11.70	0.92	3.20	
	Female	26,456	54	32.03	11.77	0.92	3.24	
	Title 1	26,000	54	29.34	11.77	0.92	3.27	
	English Learner	2,942	54	23.01	11.49	0.92	3.27	
	Former EL	3,518	54	35.25	10.97	0.92	3.18	
	SWD	6,218	54	24.83	12.53	0.93	3.31	
Plan504	3,252	54	32.00	10.98	0.91	3.25		
5	All Students	54,159	54	30.52	11.90	0.92	3.36	
	EL/FEL	7,794	54	27.04	11.98	0.92	3.35	
	Low Income	20,746	54	24.70	10.88	0.90	3.37	
	African American/Black	4,718	54	24.29	10.93	0.91	3.35	
	Asian	4,486	54	39.05	10.74	0.92	3.06	
	Hispanic/Latino	10,665	54	24.41	10.88	0.90	3.36	
	Native American	99	54	27.15	11.88	0.92	3.36	
	White	31,419	54	32.21	11.12	0.91	3.36	
	Pacific Islander/Hawaiian	37	54	27.46	11.47	0.91	3.39	
	Multi-Race; Non-Hispanic/Latino	2,694	54	31.94	12.31	0.93	3.35	

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
5	Male	26,923	54	31.52	12.15	0.92	3.34	
	Female	27,174	54	29.52	11.55	0.91	3.38	
	Title 1	24,044	54	26.37	11.35	0.91	3.37	
	English Learner	1,951	54	19.34	10.10	0.90	3.25	
	Former EL	5,843	54	29.61	11.44	0.91	3.34	
	SWD	6,464	54	22.08	11.48	0.91	3.36	
	Plan504	3,830	54	29.46	11.27	0.91	3.40	
6	All Students	56,389	54	28.84	13.12	0.93	3.56	
	EL/FEL	8,293	54	23.21	12.61	0.92	3.46	
	Low Income	21,999	54	22.13	11.58	0.91	3.41	
	African American/Black	4,964	54	21.89	11.57	0.92	3.37	
	Asian	4,497	54	39.03	12.26	0.93	3.32	
	Hispanic/Latino	11,629	54	21.65	11.59	0.91	3.39	
	Native American	132	54	24.14	12.54	0.92	3.53	
	White	32,443	54	30.97	12.19	0.91	3.55	
	Pacific Islander/Hawaiian	59	54	27.68	13.58	0.93	3.52	
	Multi-Race; Non-Hispanic/Latino	2,651	54	30.44	13.60	0.93	3.57	
	Male	28,306	54	29.35	13.30	0.93	3.56	
	Female	28,026	54	28.32	12.92	0.92	3.55	
	Title 1	23,104	54	23.61	12.14	0.92	3.46	
	English Learner	1,932	54	14.98	9.82	0.90	3.06	
	Former EL	6,360	54	25.71	12.30	0.92	3.51	
SWD	6,904	54	19.23	11.71	0.92	3.30		
Plan504	4,248	54	27.61	12.27	0.92	3.54		
7	All Students	57,234	54	25.42	13.58	0.93	3.49	
	EL/FEL	7,674	54	18.56	12.03	0.92	3.30	
	Low Income	22,255	54	18.48	11.18	0.91	3.32	
	African American/Black	5,152	54	18.14	11.09	0.91	3.28	
	Asian	4,484	54	36.74	13.40	0.94	3.25	
	Hispanic/Latino	11,746	54	18.13	11.24	0.91	3.29	
	Native American	116	54	21.85	13.00	0.93	3.39	
	White	33,099	54	27.51	12.81	0.93	3.50	
	Pacific Islander/Hawaiian	45	54	28.62	14.98	0.95	3.43	
	Multi-Race; Non-Hispanic/Latino	2,561	54	26.93	14.54	0.94	3.50	
	Male	28,746	54	26.32	13.75	0.94	3.48	
	Female	28,378	54	24.51	13.35	0.93	3.50	
	Title 1	22,888	54	19.98	11.95	0.92	3.38	
	English Learner	2,309	54	12.54	9.16	0.90	2.91	
	Former EL	5,365	54	21.15	12.19	0.92	3.38	
SWD	7,276	54	16.09	10.98	0.92	3.20		
Plan504	4,699	54	24.23	12.47	0.92	3.48		
8	All Students	59,572	54	28.94	13.10	0.93	3.47	
	EL/FEL	7,116	54	21.70	11.99	0.92	3.42	
	Low Income	23,448	54	22.54	11.52	0.91	3.43	
	African American/Black	5,510	54	22.62	11.63	0.91	3.44	
	Asian	4,686	54	40.01	12.21	0.94	3.10	
	Hispanic	12,418	54	22.22	11.56	0.91	3.42	
	Native American	142	54	25.83	12.52	0.92	3.48	
	White	34,102	54	30.84	12.23	0.92	3.44	
	Pacific Islander/Hawaiian	56	54	29.77	12.17	0.92	3.46	
	Multi-Race; Non-Hispanic/Latino	2,630	54	29.69	13.82	0.94	3.46	
	Male	30,119	54	29.09	13.27	0.93	3.46	
	Female	29,291	54	28.77	12.92	0.93	3.47	
	Title 1	23,701	54	23.96	12.06	0.92	3.45	
	English Learner	2,174	54	15.84	9.83	0.90	3.16	
	Former EL	4,942	54	24.28	11.95	0.92	3.45	
SWD	7,699	54	19.09	10.68	0.90	3.31		
Plan504	5,090	54	27.69	12.11	0.92	3.47		

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
10	All Students	63,574	60	31.75	14.78	0.94	3.61	
	EL/FEL	5,392	60	19.75	12.38	0.92	3.41	
	Low Income	24,185	60	24.10	12.99	0.93	3.55	
	African American/Black	5,928	60	23.29	12.57	0.92	3.53	
	Asian	4,914	60	43.57	13.74	0.94	3.26	
	Hispanic/Latino	13,180	60	23.52	12.91	0.92	3.54	
	Native American	132	60	26.30	13.90	0.93	3.61	
	White	36,850	60	34.42	13.70	0.93	3.57	
	Pacific Islander/Hawaiian	62	60	27.16	13.78	0.93	3.60	
	Multi-Race; Non-Hispanic/Latino	2,475	60	33.14	15.48	0.95	3.60	
	Male	32,003	60	32.27	14.97	0.94	3.61	
	Female	31,237	60	31.19	14.58	0.94	3.61	
	Title 1	21,720	60	26.05	13.59	0.93	3.58	
	English Learner	3,143	60	15.02	9.33	0.89	3.13	
	Former EL	2,249	60	26.36	13.06	0.92	3.61	
	SWD	8,703	60	20.22	12.07	0.92	3.44	
Plan504	5,793	60	31.24	13.39	0.93	3.63		

Form 1, predominantly given to students with the text-to-speech special access accommodation, is excluded from these results.

Table M-3. Subgroup Reliabilities—STE

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
5	All Students	49,237	54	31.91	10.22	0.90	3.18	
	EL/FEL	6,872	54	27.47	10.48	0.90	3.24	
	Low Income	18,447	54	26.91	9.96	0.89	3.25	
	African American/Black	4,226	54	26.18	9.98	0.89	3.24	
	Asian	4,131	54	36.79	9.29	0.89	3.05	
	Hispanic/Latino	9,393	54	26.50	10.07	0.90	3.24	
	Native American	95	54	30.71	10.11	0.90	3.20	
	White	28,958	54	33.69	9.36	0.89	3.14	
	Pacific Islander/Hawaiian	35	54	30.49	10.84	0.91	3.18	
	Multi-Race; Non-Hispanic/Latino	2,367	54	33.48	10.26	0.91	3.14	
	Male	24,494	54	32.41	10.29	0.91	3.14	
	Female	24,691	54	31.41	10.13	0.90	3.20	
	Title 1	21,093	54	28.37	10.14	0.90	3.23	
	English Learner	1,748	54	19.61	9.25	0.88	3.20	
	Former EL	5,124	54	30.15	9.48	0.88	3.24	
	SWD	5,964	54	25.06	10.90	0.91	3.21	
Plan504	3,537	54	32.20	9.68	0.89	3.16		
8	All Students	54,215	54	29.09	10.92	0.90	3.42	
	EL/FEL	6,406	54	21.63	9.67	0.87	3.43	
	Low Income	20,964	54	23.82	9.93	0.88	3.45	
	African American/Black	4,898	54	23.38	9.70	0.87	3.44	
	Asian	4,317	54	35.99	10.17	0.90	3.26	
	Hispanic/Latino	11,018	54	23.25	9.93	0.88	3.44	
	Native American	127	54	25.67	10.23	0.89	3.42	
	White	31,443	54	31.02	10.22	0.89	3.40	
	Pacific Islander/Hawaiian	54	54	29.78	11.14	0.91	3.36	
	Multi-Race; Non-Hispanic/Latino	2,337	54	30.17	11.22	0.91	3.39	
	Male	27,410	54	29.47	11.14	0.91	3.39	
	Female	26,656	54	28.67	10.67	0.90	3.44	
	Title 1	20,990	54	24.78	10.21	0.89	3.45	
	English Learner	1,990	54	15.96	7.33	0.81	3.24	
	Former EL	4,416	54	24.19	9.50	0.87	3.46	
	SWD	7,107	54	21.53	9.98	0.88	3.39	
Plan504	4,726	54	29.05	10.32	0.89	3.42		

Form 1, predominantly given to students with the text-to-speech special access accommodation, is excluded from these results.

Table M-4. Subgroup Reliabilities—Biology

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
HS	All Students	49,403	60	33.94	13.08	0.92	3.61
	EL/FEL	5,047	60	22.80	11.42	0.91	3.51
	Low Income	20,006	60	27.82	12.10	0.91	3.59
	African American/Black	4,686	60	27.59	11.90	0.91	3.58
	Asian	3,672	60	42.35	12.52	0.93	3.41
	Hispanic/Latino	10,590	60	27.06	12.03	0.91	3.58
	Native American	114	60	30.47	12.48	0.92	3.61
	White	28,344	60	36.47	12.12	0.91	3.57
	Pacific Islander/Hawaiian	58	60	31.66	12.23	0.91	3.66
	Multi-Race; Non-Hispanic/Latino	1,926	60	34.36	13.49	0.93	3.62
	Male	24,579	60	33.88	13.25	0.93	3.60
	Female	24,626	60	33.96	12.91	0.92	3.62
	Title 1	17,631	60	29.47	12.61	0.92	3.59
	English Learner	2,664	60	17.87	8.60	0.85	3.31
	Former EL	2,383	60	28.31	11.66	0.90	3.61
	SWD	6,495	60	25.06	11.71	0.91	3.52
	Plan504	4,283	60	34.22	12.26	0.91	3.59

Form 1, predominantly given to students with the text-to-speech special access accommodation, is excluded from these results.

Table M-5. Subgroup Reliabilities—Introductory Physics

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
HS	All Students	12,822	60	33.89	12.48	0.92	3.49
	EL/FEL	1,249	60	24.65	11.63	0.91	3.48
	Low Income	4,387	60	26.65	10.78	0.89	3.50
	African American/Black	1,313	60	25.73	10.24	0.89	3.47
	Asian	1,166	60	42.87	11.97	0.93	3.25
	Hispanic/Latino	2,394	60	26.93	10.78	0.89	3.49
	Native American	22	60	28.32	10.43	0.89	3.41
	White	7,329	60	35.98	11.53	0.91	3.44
	Pacific Islander/Hawaiian	8	60	32.13	12.27	0.93	3.19
	Multi-Race; Non-Hispanic/Latino	589	60	36.79	13.05	0.93	3.46
	Male	6,543	60	34.58	12.66	0.93	3.46
	Female	6,216	60	33.15	12.23	0.92	3.50
	Title 1	3,953	60	27.41	10.73	0.89	3.50
	English Learner	546	60	19.75	10.22	0.89	3.35
	Former EL	703	60	28.46	11.23	0.90	3.51
	SWD	1,608	60	25.37	10.86	0.90	3.46
	Plan504	1,143	60	33.40	11.73	0.91	3.47

Form 1, predominantly given to students with the text-to-speech special access accommodation, is excluded from these results.

Table M-6. Subgroup Reliabilities—Alt/ELA

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	All Students	856	39	28.01	3.65	0.62	2.24
	EL/FEL	213	39	28.39	3.55	0.69	1.97
	Low Income	615	39	27.96	3.72	0.64	2.23
	African American/Black	146	39	28.10	3.77	0.59	2.42
	Asian	71	39	28.07	3.69	0.43	2.79
	Hispanic/Latino	273	39	27.89	3.88	0.69	2.16
	Native American	1					
	White	334	39	27.97	3.48	0.60	2.19
	Pacific Islander/Hawaiian	2					
	Multi-Race; Non-Hispanic/Latino	26	39	28.65	2.86	0.54	1.94
	Male	615	39	27.99	3.70	0.63	2.24
	Female	240	39	28.05	3.53	0.60	2.22
	Title 1	487	39	27.98	3.73	0.63	2.27
	English Learner	172	39	28.51	3.50	0.69	1.96
	Former EL	41	39	27.85	3.75	0.71	2.02
	SWD	848	39	28.01	3.65	0.62	2.24
	Plan504	3					
4	All Students	917	39	28.24	3.83	0.67	2.21
	EL/FEL	217	39	28.79	3.48	0.67	2.00
	Low Income	637	39	28.33	3.80	0.69	2.12
	African American/Black	117	39	28.81	3.51	0.69	1.97
	Asian	80	39	28.66	3.22	0.57	2.11
	Hispanic/Latino	288	39	28.30	4.00	0.71	2.16
	Native American	3					
	White	377	39	28.01	3.88	0.63	2.37
	Pacific Islander/Hawaiian	1					
	Multi-Race; Non-Hispanic/Latino	51	39	27.59	3.99	0.72	2.12
	Male	643	39	28.28	3.82	0.64	2.30
	Female	274	39	28.16	3.86	0.72	2.05
	Title 1	530	39	28.60	3.83	0.67	2.20
	English Learner	197	39	28.79	3.51	0.65	2.09
	Former EL	20	39	28.75	3.26	0.85	1.27
	SWD	916	39	28.24	3.83	0.67	2.21
	Plan504	3					
5	All Students	802	39	28.62	3.37	0.61	2.12
	EL/FEL	159	39	28.89	3.50	0.66	2.04
	Low Income	548	39	28.70	3.37	0.60	2.12
	African American/Black	138	39	28.56	3.54	0.66	2.07
	Asian	43	39	29.00	2.72	0.56	1.80
	Hispanic/Latino	239	39	28.65	3.69	0.60	2.33
	Native American	1					
	White	337	39	28.54	3.22	0.60	2.05
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	42	39	28.81	2.80	0.62	1.71
	Male	571	39	28.55	3.44	0.62	2.12
	Female	230	39	28.79	3.21	0.57	2.12
	Title 1	435	39	29.03	3.31	0.57	2.18
	English Learner	139	39	28.92	3.53	0.61	2.22
	Former EL	20	39	28.65	3.38	0.82	1.45
	SWD	798	39	28.64	3.36	0.61	2.11
	Plan504	3					
6	All Students	757	39	28.33	3.65	0.68	2.07
	EL/FEL	142	39	28.87	3.39	0.68	1.91

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
6	Low Income	512	39	28.35	3.69	0.71	1.97
	African American/Black	106	39	28.76	3.77	0.72	1.98
	Asian	55	39	28.64	3.05	0.65	1.79
	Hispanic/Latino	225	39	28.65	3.70	0.72	1.95
	Native American	2					
	White	338	39	28.07	3.56	0.64	2.13
	Pacific Islander/Hawaiian	1					
	Multi-Race; Non-Hispanic/Latino	28	39	26.93	4.19	0.58	2.70
	Male	493	39	28.34	3.72	0.67	2.13
	Female	264	39	28.32	3.51	0.69	1.96
	Title 1	365	39	28.97	3.50	0.68	1.99
	English Learner	127	39	28.92	3.38	0.66	1.97
	Former EL	15	39	28.47	3.52	0.84	1.42
	SWD	751	39	28.34	3.65	0.68	2.06
	Plan504	2					
	7	All Students	719	39	28.25	3.74	0.70
EL/FEL		156	39	28.39	4.08	0.75	2.04
Low Income		501	39	28.33	3.71	0.71	2.01
African American/Black		121	39	28.06	3.65	0.68	2.06
Asian		42	39	28.02	4.09	0.56	2.73
Hispanic/Latino		217	39	28.68	3.79	0.72	2.01
Native American		3					
White		305	39	27.96	3.71	0.73	1.93
Pacific Islander/Hawaiian		1					
Multi-Race; Non-Hispanic/Latino		26	39	29.00	3.68	0.56	2.44
Male		505	39	28.04	3.81	0.70	2.09
Female		214	39	28.74	3.51	0.71	1.88
Title 1		355	39	28.72	3.61	0.70	1.97
English Learner		135	39	28.58	3.93	0.73	2.06
Former EL		21	39	27.19	4.86	0.84	1.95
SWD		712	39	28.25	3.74	0.70	2.03
Plan504	3						
8	All Students	722	39	28.66	3.48	0.67	2.00
	EL/FEL	138	39	29.22	3.40	0.72	1.80
	Low Income	504	39	28.69	3.50	0.71	1.88
	African American/Black	118	39	28.86	3.71	0.79	1.71
	Asian	54	39	28.48	3.59	0.58	2.32
	Hispanic/Latino	212	39	28.69	3.48	0.69	1.94
	Native American	1					
	White	303	39	28.48	3.49	0.64	2.10
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	29	39	29.83	2.25	0.33	1.84
	Male	491	39	28.66	3.41	0.62	2.10
	Female	229	39	28.66	3.64	0.74	1.84
	Title 1	334	39	29.40	3.21	0.72	1.71
	English Learner	121	39	29.26	3.42	0.74	1.74

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
8	Former EL	17	39	28.94	3.34	0.42	2.55
	SWD	714	39	28.68	3.47	0.67	1.99
	Plan504	1					
10	All Students	694	39	28.16	4.02	0.61	2.51
	EL/FEL	123	39	28.13	4.54	0.65	2.70
	Low Income	468	39	28.06	4.07	0.61	2.56
	African American/Black	113	39	28.86	3.79	0.68	2.14
	Asian	37	39	28.05	3.90	0.65	2.30
	Hispanic/Latino	202	39	28.16	4.35	0.63	2.64
	Native American	2					
	White	314	39	27.87	3.91	0.57	2.57
	Pacific Islander/Hawaiian	1					
	Multi-Race; Non-Hispanic/Latino	25	39	28.68	3.67	0.20	3.29
	Male	456	39	28.17	4.01	0.60	2.55
	Female	238	39	28.14	4.03	0.63	2.44
	Title 1	248	39	28.52	4.23	0.64	2.55
	English Learner	119	39	28.08	4.60	0.65	2.72
	Former EL	4					
	SWD	689	39	28.14	4.02	0.61	2.52
Plan504	3						

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 M-7. Subgroup Reliabilities—Alt/Mathematics

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	All Students	747	26	21.08	1.49	0.55	1.00
	EL/FEL	189	26	21.00	1.53	0.52	1.06
	Low Income	542	26	21.11	1.50	0.59	0.96
	African American/Black	129	26	21.35	1.14	0.51	0.80
	Asian	58	26	20.97	1.73	0.57	1.13
	Hispanic/Latino	241	26	21.04	1.55	0.59	0.99
	Native American	0					
	White	292	26	20.99	1.54	0.52	1.06
	Pacific Islander/Hawaiian	2					
	Multi-Race; Non-Hispanic/Latino	23	26	21.39	1.23	0.48	0.89
	Male	536	26	21.12	1.46	0.54	0.99
	Female	210	26	20.97	1.56	0.56	1.03
	Title 1	434	26	21.10	1.47	0.59	0.94
	English Learner	154	26	21.08	1.48	0.54	1.00
	Former EL	35	26	20.66	1.70	0.43	1.28
	SWD	741	26	21.08	1.48	0.55	1.00
	Plan504	2					
4	All Students	809	26	21.02	1.56	0.58	1.01
	EL/FEL	194	26	21.08	1.54	0.62	0.96
	Low Income	565	26	21.04	1.54	0.60	0.97
	African American/Black	105	26	21.33	1.31	0.66	0.77
	Asian	67	26	20.87	1.80	0.60	1.14
	Hispanic/Latino	269	26	21.06	1.60	0.62	0.98
	Native American	2					
	White	325	26	20.94	1.52	0.50	1.08
	Pacific Islander/Hawaiian	1					
	Multi-Race; Non-Hispanic/Latino	40	26	20.80	1.74	0.67	1.00
	Male	564	26	21.04	1.53	0.56	1.02
	Female	245	26	20.97	1.63	0.62	1.00
	Title 1	462	26	21.29	1.33	0.62	0.82
	English Learner	176	26	21.08	1.54	0.60	0.98
	Former EL	18	26	21.06	1.63	0.81	0.71
	SWD	807	26	21.02	1.56	0.58	1.01
	Plan504	1					
5	All Students	733	26	21.15	1.46	0.65	0.86
	EL/FEL	136	26	21.25	1.44	0.81	0.63
	Low Income	495	26	21.21	1.37	0.66	0.80
	African American/Black	117	26	21.20	1.33	0.55	0.89
	Asian	36	26	21.17	1.42	0.67	0.82
	Hispanic/Latino	207	26	21.22	1.37	0.66	0.80
	Native American	3					
	White	325	26	21.09	1.56	0.68	0.88
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	43	26	21.14	1.55	0.62	0.96
	Male	516	26	21.15	1.44	0.63	0.88
	Female	216	26	21.17	1.50	0.70	0.82
	Title 1	383	26	21.41	1.21	0.73	0.63
	English Learner	118	26	21.32	1.37	0.82	0.59
	Former EL	18	26	20.83	1.82	0.75	0.92
	SWD	728	26	21.16	1.46	0.65	0.86
	Plan504	5					
6	All Students	702	26	20.97	1.61	0.63	0.99
	EL/FEL	132	26	21.14	1.68	0.73	0.88
	Low Income	480	26	20.91	1.68	0.64	1.01
	African American/Black	104	26	20.97	1.63	0.60	1.03
	Asian	52	26	21.06	1.51	0.73	0.78

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
6	Hispanic/Latino	211	26	21.05	1.72	0.69	0.96	
	Native American	2						
	White	305	26	20.87	1.59	0.58	1.03	
	Pacific Islander/Hawaiian	0						
	Multi-Race; Non-Hispanic/Latino	26	26	21.23	1.07	0.42	0.82	
	Male	459	26	21.00	1.61	0.62	0.99	
	Female	243	26	20.90	1.61	0.63	0.98	
	Title 1	341	26	21.10	1.52	0.63	0.93	
	English Learner	115	26	21.14	1.68	0.73	0.88	
	Former EL	17	26	21.12	1.73	0.74	0.88	
	SWD	697	26	20.97	1.61	0.63	0.98	
Plan504	2							
7	All Students	654	26	21.05	1.64	0.65	0.97	
	EL/FEL	147	26	21.08	1.81	0.69	1.01	
	Low Income	458	26	21.09	1.61	0.65	0.95	
	African American/Black	106	26	20.93	1.90	0.58	1.23	
	Asian	38	26	21.14	1.55	0.53	1.06	
	Hispanic/Latino	200	26	21.19	1.56	0.74	0.79	
	Native American	2						
	White	277	26	20.96	1.64	0.65	0.97	
	Pacific Islander/Hawaiian	1						
	Multi-Race; Non-Hispanic/Latino	28	26	21.32	1.25	0.34	1.01	
	Male	447	26	21.10	1.61	0.68	0.91	
	Female	207	26	20.96	1.70	0.58	1.10	
	Title 1	322	26	21.26	1.48	0.65	0.87	
	English Learner	126	26	21.24	1.58	0.55	1.06	
Former EL	21	26	20.10	2.64	0.83	1.08		
SWD	650	26	21.05	1.64	0.65	0.97		
Plan504	4							
8	All Students	636	26	21.03	1.58	0.59	1.01	
	EL/FEL	117	26	21.03	1.58	0.59	1.02	
	Low Income	442	26	21.05	1.54	0.59	0.98	
	African American/Black	105	26	20.90	1.88	0.73	0.98	
	Asian	50	26	21.12	1.57	0.52	1.09	
	Hispanic/Latino	176	26	21.05	1.56	0.58	1.01	
	Native American	1						
	White	271	26	21.02	1.49	0.55	1.00	
	Pacific Islander/Hawaiian	0						
	Multi-Race; Non-Hispanic/Latino	28	26	21.25	1.38	0.34	1.12	
	Male	428	26	21.08	1.43	0.50	1.02	
	Female	206	26	20.91	1.84	0.70	1.00	
	Title 1	282	26	21.30	1.31	0.58	0.85	
	English Learner	100	26	21.00	1.60	0.60	1.02	
Former EL	17	26	21.24	1.48	0.50	1.04		
SWD	628	26	21.05	1.54	0.58	1.00		
Plan504	3							
10	All Students	676	39	30.41	3.64	0.82	1.56	
	EL/FEL	122	39	30.52	3.80	0.76	1.87	
	Low Income	457	39	30.33	3.69	0.80	1.66	
	African American/Black	108	39	30.49	3.67	0.80	1.64	
	Asian	38	39	28.87	4.21	0.79	1.91	
	Hispanic/Latino	195	39	30.91	3.61	0.80	1.60	
	Native American	2						
	White	306	39	30.25	3.55	0.84	1.44	
	Pacific Islander/Hawaiian	1						
	Multi-Race; Non-Hispanic/Latino	26	39	30.54	3.65	0.78	1.71	
	Male	447	39	30.31	3.81	0.82	1.61	
Female	229	39	30.62	3.29	0.81	1.45		

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
10	Title 1	240	39	30.64	3.64	0.86	1.37
	English Learner	118	39	30.50	3.85	0.76	1.88
	Former EL	4					
	SWD	671	39	30.41	3.64	0.82	1.56
	Plan504	4					

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 M-8. Subgroup Reliabilities—Alt/STE

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
5	All Students	758	39	30.31	3.17	0.72	1.68
	EL/FEL	142	39	30.81	3.00	0.71	1.61
	Low Income	515	39	30.37	3.14	0.73	1.65
	African American/Black	127	39	30.07	3.64	0.69	2.01
	Asian	43	39	30.40	3.03	0.76	1.48
	Hispanic/Latino	224	39	30.67	2.87	0.69	1.60
	Native American	3					
	White	317	39	30.20	3.20	0.70	1.75
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	42	39	29.79	3.15		
	Male	540	39	30.22	3.23	0.68	1.82
	Female	217	39	30.57	3.01	0.76	1.48
	Title 1	408	39	30.81	2.85	0.69	1.58
	English Learner	122	39	31.01	2.87	0.71	1.53
	Former EL	20	39	29.65	3.56		
SWD	753	39	30.34	3.16	0.72	1.68	
Plan504	3						
8	All Students	695	39	30.18	3.09	0.78	1.46
	EL/FEL	121	39	30.68	2.73	0.72	1.45
	Low Income	492	39	30.34	3.00	0.80	1.33
	African American/Black	115	39	30.36	3.24	0.85	1.24
	Asian	52	39	30.23	3.10	0.77	1.48
	Hispanic/Latino	196	39	30.31	2.85	0.77	1.36
	Native American	1					
	White	295	39	30.02	3.15	0.74	1.59
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	31	39	29.81	3.69		
	Male	480	39	30.26	2.93	0.72	1.54
	Female	213	39	29.95	3.43	0.84	1.37
	Title 1	308	39	30.65	2.88	0.82	1.21
	English Learner	104	39	30.55	2.86	0.74	1.45
	Former EL	17	39	31.41	1.62	0.60	1.03
SWD	686	39	30.19	3.10	0.77	1.47	
Plan504	2						

Table M-9. Subgroup Reliabilities—Alt/Biology

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	417	39	30.61	3.22	0.67	1.84
	EL/FEL	75	39	31.64	2.28	0.64	1.37
	Low Income	266	39	30.56	3.21	0.66	1.88
	African American/Black	60	39	30.72	3.48	0.69	1.94
	Asian	28	39	30.89	2.79	0.65	1.65
	Hispanic/Latino	98	39	31.14	2.60	0.66	1.52
	Native American	3					
	White	210	39	30.34	3.38	0.68	1.91
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	18	39	29.78	3.96	0.59	2.53
	Male	291	39	30.52	3.22	0.67	1.84
	Female	126	39	30.81	3.22	0.67	1.84
	Title 1	138	39	30.94	3.14	0.67	1.79
	English Learner	70	39	31.69	2.20	0.64	1.32
	Former EL	5					
	SWD	416	39	30.60	3.22	0.67	1.84
	Plan504	2					

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 M-10. Subgroup Reliabilities—Alt/Chemistry

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	114	39	32.01	2.43	0.71	1.31
	EL/FEL	24	39	32.36	2.08	0.94	0.51
	Low Income	93	39	32.00	2.44	0.71	1.31
	African American/Black	18	39	31.94	2.62	0.75	1.30
	Asian	7					
	Hispanic/Latino	58	39	32.09	2.56	0.82	1.10
	Native American	2					
	White	24	39	31.83	2.22	0.62	1.36
	Pacific Islander/Hawaiian	1					
	Multi-Race; Non-Hispanic/Latino	4					
	Male	72	39	31.99	2.33	0.73	1.21
	Female	42	39	32.05	2.63	0.63	1.60
	Title 1	79	39	32.23	2.31	0.80	1.05
	English Learner	24	39	32.36	2.08	0.94	0.51
	Former EL	0					
	SWD	113	39	32.01	2.43	0.71	1.31
	Plan504	1					

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 M-11. Subgroup Reliabilities—Alt/Introductory Physics

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	74	39	30.26	3.00	0.67	1.72
	EL/FEL	13	39	31.38	2.69	0.75	1.35
	Low Income	45	39	30.58	3.02	0.64	1.80
	African American/Black	14	39	31.29	2.49	0.62	1.53
	Asian	7					
	Hispanic/Latino	14	39	31.29	2.02	0.68	1.13
	Native American	0					
	White	34	39	29.71	3.19	0.64	1.90
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	5					
	Male	52	39	30.27	3.07	0.66	1.79
	Female	22	39	30.23	2.91	0.73	1.52
	Title 1	21	39	32.19	1.57	0.73	0.81
	English Learner	13	39	31.38	2.69	0.75	1.35
	Former EL	0					
	SWD	74	39	30.26	3.00	0.67	1.72
	Plan504	1					

Table M-12. Subgroup Reliabilities—Alt/Technology/Engineering

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	72	39	31.23	3.15	0.82	1.32
	EL/FEL	14	39	31.25	2.73	0.74	1.40
	Low Income	49	39	30.89	3.43	0.84	1.39
	African American/Black	21	39	31.75	2.81	0.93	0.72
	Asian	3					
	Hispanic/Latino	15	39	31.64	2.73	0.83	1.12
	Native American	0					
	White	27	39	30.59	3.70	0.83	1.52
	Pacific Islander/Hawaiian	0					
	Multi-Race; Non-Hispanic/Latino	6					
	Male	44	39	31.60	2.80	0.80	1.25
	Female	28	39	30.63	3.62	0.86	1.35
	Title 1	12	39	29.33	4.08	0.79	1.87
	English Learner	14	39	31.25	2.73	0.74	1.40
	Former EL	0					
	SWD	72	39	31.23	3.15	0.82	1.32
	Plan504	0					

Table M-13. Reliabilities by Reporting Category by Grade—ELA

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	LA	8	12	6.76	2.96	0.73	1.54
	RE	24	28	17.13	6.37	0.88	2.23
	WR	1	4	1.12	0.88	NaN	NaN
4	LA	7	12	6.51	2.78	0.68	1.57
	RE	25	28	17.87	5.59	0.83	2.29
	WR	1	4	1.21	0.79	NaN	NaN
5	LA	9	14	7.95	3.16	0.73	1.64
	RE	22	26	17.99	5.54	0.84	2.19
	WR	2	8	2.82	1.63	0.72	0.86
6	LA	6	10	5.90	2.49	0.66	1.45
	RE	25	30	18.47	6.24	0.85	2.45
	WR	2	10	3.25	2.09	0.80	0.95
7	LA	7	12	7.30	3.22	0.74	1.65
	RE	24	28	16.92	5.99	0.84	2.42
	WR	2	10	3.29	2.49	0.70	1.36
8	LA	6	11	7.22	2.81	0.69	1.57
	RE	25	29	19.37	5.78	0.84	2.33
	WR	2	10	4.08	2.30	0.82	0.97
10	LA	7	11	8.52	2.55	0.72	1.36
	RE	23	30	20.92	6.28	0.85	2.43
	WR	2	10	5.32	2.22	0.85	0.86

Table M-14. Reliabilities by Reporting Category by Grade—Mathematics

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	GE	4	4	2.26	1.22	0.49	0.87
	MD	10	12	7.04	3.08	0.77	1.47
	NF	7	9	5.68	2.54	0.74	1.29
	NT	6	8	4.71	2.24	0.74	1.15
	OA	13	15	9.69	3.94	0.81	1.72
4	GE	5	5	3.61	1.38	0.64	0.83
	MD	8	11	5.57	2.68	0.67	1.54
	NF	13	16	10.12	4.06	0.83	1.68
	NT	7	11	7.20	2.66	0.70	1.46
	OA	7	11	6.68	2.68	0.68	1.52
5	GE	4	5	3.08	1.35	0.50	0.96
	MD	7	11	5.96	2.73	0.69	1.52
	NF	11	14	7.80	3.44	0.74	1.75
	NT	13	16	9.64	4.19	0.83	1.75
	OA	5	8	4.04	1.99	0.50	1.41
6	EE	12	16	8.30	4.33	0.83	1.76
	GE	5	8	3.32	2.49	0.55	1.66
	RP	7	11	5.68	3.18	0.76	1.55
	SP	8	8	4.86	1.94	0.60	1.23
	NS	8	11	6.69	2.90	0.67	1.67
7	EE	12	13	6.80	3.58	0.83	1.46
	GE	5	8	3.07	2.24	0.58	1.45
	RP	7	11	5.61	2.96	0.68	1.67
	SP	8	11	5.00	2.94	0.74	1.49
	NS	8	11	4.94	3.31	0.71	1.77
8	FN	7	11	5.61	3.08	0.68	1.73
	GE	12	16	7.97	4.39	0.85	1.72
	SP	4	7	4.83	1.88	0.58	1.22
	NE	17	20	10.53	5.02	0.82	2.13
10	FN	17	21	10.84	5.63	0.87	2.01
	GE	15	21	11.11	5.30	0.83	2.20
	NE	5	9	5.34	2.77	0.67	1.60
	SP	5	9	4.45	2.23	0.66	1.29

Table M-15. Reliabilities by Reporting Category by Grade—STE

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
5	ES	11	14	8.69	3.19	0.73	1.64
	LS	10	14	8.17	2.74	0.69	1.53
	PS	11	14	7.61	2.98	0.68	1.69
	TE	9	12	7.44	2.70	0.70	1.47
8	ES	11	14	7.06	3.14	0.68	1.79
	LS	11	14	7.10	3.20	0.70	1.75
	PS	9	13	7.38	2.92	0.69	1.62
	TE	10	13	7.55	3.15	0.71	1.68

Table M-16. Reliabilities by Reporting Category by Grade—Biology

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	EC	10	12	7.32	2.86	0.71	1.54
	EV	8	12	6.35	3.06	0.72	1.62
	HE	12	15	9.39	3.65	0.79	1.67
	MO	12	21	10.89	4.80	0.77	2.29

Table M-17. Reliabilities by Reporting Category by Grade—Introductory Physics

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	EN	13	18	9.88	4.24	0.79	1.96
	MF	21	30	17.48	6.26	0.85	2.43
	WA	8	12	6.54	2.82	0.69	1.56

Table M-18. SEM by Achievement Level by Grade—Alt/ELA

Grade	Achievement Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
3	Awareness	31	39	19.68	2.90	4.83
	Emerging	455	39	26.27	3.04	2.42
	Progressing	370	39	30.85	1.08	0.93
4	Awareness	29	39	20.28	3.43	3.02
	Emerging	419	39	25.94	3.22	2.43
	Progressing	466	39	30.87	1.12	0.92
	Partially Meeting Expectations-Alt	1				
	Not Meeting Expectations-Alt	2				
5	Awareness	20	39	19.80	2.95	3.81
	Emerging	368	39	26.55	2.92	2.36
	Progressing	413	39	30.87	1.18	0.94
	Not Meeting Expectations-Alt	1				
6	Awareness	13	39	20.08	3.90	4.47
	Emerging	346	39	25.68	3.19	2.23
	Progressing	398	39	30.88	1.15	0.93
7	Awareness	31	39	19.67	2.62	2.37
	Emerging	321	39	26.03	3.04	2.45
	Progressing	366	39	30.89	1.19	0.93
	Not Meeting Expectations-Alt	1				
8	Awareness	22	39	20.55	3.78	3.49
	Emerging	289	39	26.12	2.96	2.29
	Progressing	410	39	30.89	1.17	0.92
	Not Meeting Expectations-Alt	1				
10	Awareness	16	39	20.13	2.45	3.63
	Emerging	290	39	25.11	3.03	2.54
	Progressing	380	39	30.97	1.19	0.97
	Partially Meeting Expectations-Alt	1				
	Not Meeting Expectations-Alt	7				

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-19. SEM by Achievement Level by Grade—Alt/Mathematics

Grade	Achievement Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
3	Awareness	20	26	16.10	0.91	2.18
	Emerging	99	26	19.02	1.17	1.84
	Progressing	623	26	21.55	0.81	0.59
	Not Meeting Expectations-Alt	5				
4	Awareness	24	26	15.83	1.05	2.08
	Emerging	112	26	18.90	1.20	1.80
	Progressing	670	26	21.57	0.76	0.59
	Not Meeting Expectations-Alt	3				
5	Awareness	19	26	15.94	1.51	1.58
	Emerging	82	26	19.01	1.23	1.74
	Progressing	632	26	21.58	0.81	0.56
6	Awareness	19	26	15.53	1.17	2.07
	Emerging	115	26	18.80	1.18	1.77
	Progressing	568	26	21.59	0.74	0.57
7	Awareness	20	26	15.47	1.78	2.27
	Emerging	85	26	18.88	1.34	1.67
	Progressing	547	26	21.61	0.67	0.57
	Not Meeting Expectations-Alt	2				
8	Awareness	27	26	16.11	1.37	2.12
	Emerging	80	26	18.99	1.14	1.79
	Progressing	528	26	21.60	0.69	0.58
	Not Meeting Expectations-Alt	1				
10	Awareness	10	39	23.70	2.16	
	Emerging	167	39	25.17	2.29	1.10
	Progressing	491	39	32.32	1.14	0.65
	Partially Meeting Expectations-Alt	1				
	Not Meeting Expectations-Alt	7				

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-20. SEM by Achievement Level by Grade—Alt/STE

Grade	Achievement Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
5	Awareness	33	39	23.47	2.30	3.27
	Emerging	149	39	26.12	2.38	2.24
	Progressing	575	39	31.78	1.47	1.01
	Not Meeting Expectations-Alt	1				
8	Awareness	28	39	23.39	2.30	
	Emerging	149	39	26.28	2.12	1.62
	Progressing	518	39	31.67	1.46	0.92

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-21. SEM by Performance Level by Grade—Alt/Biology

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Awareness	15	39	23.00	3.23	3.55
	Emerging	75	39	26.25	2.37	2.73
	Progressing	321	39	31.84	1.39	1.01
	Meeting Expectations-Alt	5				
	Not Meeting Expectations-Alt	1				

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-22. SEM by Performance Level by Grade—Alt/Chemistry

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Emerging	11	39	24.80	1.55	0.63
	Progressing	103	39	32.72	0.79	0.52

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-23. SEM by Performance Level by Grade— Alt/Introductory Physics

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Awareness	5				
	Emerging	15	39	27.07	2.12	2.62
	Progressing	54	39	31.72	1.55	1.05

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.

Table M-24. SEM by Performance Level by Grade— Alt/Technology/Engineering

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Emerging	14	39	25.64	2.06	1.87
	Progressing	58	39	32.63	1.24	0.48

Due to the small sample size of the subgroup, the calculation of SEM does not produce meaningful values.