

**APPENDIX N**  
**CLASSICAL RELIABILITY AND SEM**

**Table N-1. Subgroup Reliabilities—ELA**

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
3	All Students	62,665	44	24.72	9.07	0.91	2.77
	EL/FEL	12,663	44	20.02	8.76	0.89	2.88
	Low Income	28,136	44	21.33	8.44	0.88	2.86
	African American/Black	5,593	44	21.76	8.49	0.89	2.86
	Asian	4,863	44	28.69	7.84	0.88	2.75
	Hispanic/Latino	14,052	44	20.37	8.56	0.89	2.87
	Native American	132	44	21.69	8.95	0.90	2.78
	White	34,072	44	26.98	7.72	0.87	2.73
	Pacific Islander/Hawaiian	55	44	24.09	8.38	0.88	2.87
	Multi-Race; Non-Hispanic/Latino	2,881	44	26.96	8.34	0.89	2.74
	Male	31,002	44	24.52	8.47	0.89	2.76
	Female	30,647	44	25.72	8.67	0.90	2.81
	Title 1	33,566	44	22.46	8.60	0.89	2.84
	English Learner	9,301	44	17.44	7.65	0.86	2.89
	Former EL	3,363	44	27.15	7.62	0.87	2.78
	SWD	10,472	44	18.81	8.21	0.88	2.85
Plan504	2,601	44	25.54	7.57	0.87	2.75	
4	All Students	62,994	44	24.92	9.08	0.89	2.95
	EL/FEL	12,242	44	20.35	8.50	0.87	3.03
	Low Income	28,222	44	21.48	8.23	0.87	3.02
	African American/Black	5,608	44	21.80	8.35	0.87	3.02
	Asian	4,838	44	28.93	7.77	0.86	2.90
	Hispanic/Latino	14,071	44	20.68	8.37	0.87	3.02
	Native American	121	44	22.38	8.72	0.88	3.01
	White	34,462	44	27.08	7.94	0.87	2.91
	Pacific Islander/Hawaiian	38	44	25.95	9.38	0.91	2.88
	Multi-Race; Non-Hispanic/Latino	2,926	44	27.07	8.55	0.88	2.92
	Male	31,405	44	24.52	8.51	0.88	2.93
	Female	30,655	44	26.06	8.68	0.88	2.97
	Title 1	32,793	44	22.70	8.50	0.88	3.00
	English Learner	7,961	44	16.87	7.03	0.82	3.01
	Former EL	4,281	44	26.83	7.11	0.82	2.99
	SWD	11,024	44	18.65	7.82	0.86	2.96
Plan504	3,254	44	25.56	7.71	0.86	2.93	
5	All Students	64,521	48	28.69	10.05	0.92	2.92
	EL/FEL	12,186	48	23.76	10.13	0.91	2.99
	Low Income	28,732	48	24.95	9.55	0.90	2.96
	African American/Black	5,748	48	25.44	9.66	0.91	2.98

continued

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
5	Asian	4,745	48	33.52	8.62	0.89	2.87
	Hispanic/Latino	14,393	48	24.14	9.81	0.91	2.97
	Native American	151	48	25.82	9.32	0.90	2.92
	White	35,603	48	30.97	8.51	0.89	2.88
	Pacific Islander/Hawaiian	66	48	28.73	9.96	0.91	2.92
	Multi-Race; Non-Hispanic/Latino	2,916	48	30.63	9.41	0.90	2.91
	Male	32,322	48	28.29	9.53	0.91	2.89
	Female	31,292	48	29.89	9.48	0.90	2.96
	Title 1	30,145	48	26.00	9.70	0.91	2.96
	English Learner	6,093	48	17.60	8.25	0.87	2.95
	Former EL	6,093	48	29.92	7.82	0.86	2.96
	SWD	11,583	48	21.37	9.37	0.90	2.93
	Plan504	3,962	48	29.08	8.56	0.89	2.89
	6	All Students	64,771	50	27.85	10.61	0.92
EL/FEL		11,960	50	22.16	10.19	0.91	3.09
Low Income		28,707	50	23.79	9.85	0.90	3.07
African American/Black		5,820	50	24.00	9.81	0.90	3.06
Asian		4,667	50	33.44	9.37	0.90	2.89
Hispanic/Latino		14,341	50	22.91	10.02	0.91	3.08
Native American		127	50	26.25	10.17	0.91	3.04
White		36,114	50	30.22	9.29	0.90	2.97
Pacific Islander/Hawaiian		43	50	29.98	10.64	0.92	3.05
Multi-Race; Non-Hispanic/Latino		2,784	50	29.82	10.10	0.91	2.98
Male		32,518	50	26.95	10.17	0.91	3.03
Female		31,344	50	29.54	10.01	0.91	2.99
Title 1		27,145	50	24.99	10.13	0.91	3.06
English Learner		4,649	50	14.61	7.36	0.84	2.98
Former EL	7,311	50	26.96	8.73	0.88	3.08	
SWD	11,456	50	19.83	9.12	0.89	3.03	
Plan504	4,430	50	28.35	9.05	0.89	3.00	
7	All Students	66,477	50	28.03	10.71	0.92	3.11
	EL/FEL	11,280	50	21.85	10.10	0.90	3.21
	Low Income	29,774	50	24.21	9.97	0.90	3.17
	African American/Black	6,191	50	24.81	9.90	0.90	3.17
	Asian	4,869	50	34.36	9.54	0.91	2.91
	Hispanic/Latino	14,764	50	23.49	10.18	0.90	3.18
	Native American	163	50	25.94	10.13	0.90	3.20
	White	36,637	50	30.11	9.50	0.90	3.07
	Pacific Islander/Hawaiian	72	50	28.69	9.99	0.91	3.03
	Multi-Race; Non-Hispanic/Latino	2,874	50	29.64	10.20	0.91	3.10

continued

Grade	Subgroup	Number of Students	Maximum	Raw Score			Alpha	SEM
				Mean	Standard Deviation			
7	Male	33,548	50	26.68	10.19	0.91	3.13	
	Female	31,937	50	30.19	10.06	0.91	3.07	
	Title 1	27,667	50	25.27	10.22	0.90	3.16	
	English Learner	4,474	50	14.65	7.20	0.82	3.03	
	Former EL	6,806	50	26.58	8.86	0.87	3.18	
	SWD	11,595	50	19.82	8.92	0.88	3.10	
	Plan504	4,752	50	28.27	9.26	0.89	3.11	
8	All Students	68,852	50	31.57	10.52	0.92	3.04	
	EL/FEL	10,541	50	24.42	10.52	0.91	3.19	
	Low Income	30,409	50	27.94	10.16	0.91	3.13	
	African American/Black	6,360	50	28.78	9.81	0.90	3.10	
	Asian	5,054	50	37.48	8.36	0.89	2.77	
	Hispanic/Latino	15,198	50	27.21	10.54	0.91	3.15	
	Native American	148	50	29.48	10.03	0.91	3.09	
	White	38,422	50	33.64	8.98	0.89	2.97	
	Pacific Islander/Hawaiian	57	50	32.04	10.09	0.91	2.98	
	Multi-Race; Non-Hispanic/Latino	2,671	50	32.94	9.71	0.90	3.03	
	Male	34,627	50	30.31	10.13	0.91	3.07	
	Female	33,190	50	33.74	9.40	0.90	2.96	
	Title 1	27,437	50	28.99	10.20	0.91	3.11	
	English Learner	4,709	50	17.31	8.45	0.87	3.10	
	Former EL	5,832	50	30.17	8.27	0.86	3.08	
	SWD	11,533	50	23.36	9.48	0.89	3.13	
	Plan504	5,327	50	31.86	8.88	0.89	3.00	
10	All Students	66,627	51	35.74	10.56	0.92	3.03	
	EL/FEL	7,223	51	24.78	11.55	0.91	3.43	
	Low Income	27,211	51	32.10	10.50	0.90	3.25	
	African American/Black	5,917	51	32.90	9.83	0.89	3.20	
	Asian	4,649	51	40.64	7.83	0.89	2.62	
	Hispanic/Latino	14,123	51	30.83	11.27	0.91	3.30	
	Native American	131	51	35.11	9.81	0.90	3.07	
	White	38,248	51	38.33	7.90	0.87	2.87	
	Pacific Islander/Hawaiian	50	51	34.86	10.67	0.91	3.13	
	Multi-Race; Non-Hispanic/Latino	2,386	51	37.60	9.04	0.89	2.95	
	Male	33,158	51	34.80	9.82	0.90	3.10	
	Female	32,138	51	37.92	9.03	0.90	2.89	
	Title 1	22,524	51	33.02	10.33	0.90	3.20	
	English Learner	4,408	51	18.83	9.33	0.87	3.30	
	Former EL	2,815	51	34.11	7.96	0.84	3.17	
	SWD	10,056	51	28.62	9.76	0.89	3.30	
	Plan504	5,530	51	37.00	8.10	0.86	2.98	

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

**Table N-2. Subgroup Reliabilities—Mathematics**

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
3	All Students	54,427	48	27.12	11.47	0.93	3.06
	EL/FEL	7,345	48	24.49	11.62	0.93	3.09
	Low Income	21,863	48	22.54	10.61	0.91	3.12
	African American/Black	4,652	48	21.89	10.65	0.91	3.11
	Asian	4,486	48	34.32	9.72	0.92	2.81
	Hispanic/Latino	9,914	48	21.92	10.59	0.91	3.11
	Native American	104	48	23.87	11.24	0.92	3.10
	White	31,508	48	29.22	10.11	0.91	3.04
	Pacific Islander/Hawaiian	51	48	25.80	10.79	0.92	3.07
	Multi-Race; Non-Hispanic/Latino	2,698	48	28.84	11.47	0.93	3.03
	Male	26,567	48	28.52	11.02	0.92	3.04
	Female	26,854	48	26.73	10.84	0.92	3.08
	Title 1	27,052	48	24.25	10.86	0.92	3.11
	English Learner	4,081	48	20.55	10.59	0.91	3.10
	Former EL	3,264	48	29.41	10.96	0.92	3.01
	SWD	6,602	48	20.57	11.11	0.92	3.10
Plan504	2,404	48	26.54	10.39	0.91	3.10	
4	All Students	54,467	54	30.72	13.02	0.93	3.35
	EL/FEL	7,280	54	27.92	13.03	0.93	3.39
	Low Income	21,955	54	25.36	12.03	0.92	3.39
	African American/Black	4,637	54	24.14	12.03	0.92	3.37
	Asian	4,428	54	38.85	11.09	0.92	3.06
	Hispanic/Latino	10,070	54	24.88	12.09	0.92	3.40
	Native American	98	54	27.48	12.36	0.92	3.41
	White	31,551	54	33.16	11.51	0.92	3.29
	Pacific Islander/Hawaiian	36	54	30.31	11.99	0.93	3.20
	Multi-Race; Non-Hispanic/Latino	2,714	54	32.46	12.94	0.93	3.31
	Male	26,677	54	32.33	12.64	0.93	3.32
	Female	26,853	54	30.16	12.26	0.93	3.36
	Title 1	26,577	54	27.27	12.31	0.92	3.38
	English Learner	3,263	54	21.53	11.88	0.92	3.34
	Former EL	4,017	54	33.10	11.54	0.92	3.28
	SWD	6,428	54	22.47	12.80	0.93	3.37
Plan504	3,027	54	30.26	11.95	0.92	3.36	
5	All Students	56,517	54	28.99	12.80	0.93	3.39
	EL/FEL	8,047	54	25.10	12.17	0.92	3.42
	Low Income	23,061	54	23.26	11.06	0.91	3.39
	African American/Black	4,852	54	22.66	10.93	0.90	3.39
	Asian	4,415	54	38.18	11.69	0.93	3.16

continued

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
5	Hispanic/Latino	10,825	54	22.64	10.99	0.91	3.38
	Native American	121	54	24.88	11.29	0.90	3.49
	White	32,631	54	31.46	11.53	0.92	3.36
	Pacific Islander/Hawaiian	60	54	28.25	14.40	0.95	3.31
	Multi-Race; Non-Hispanic/Latino	2,698	54	30.60	12.97	0.93	3.40
	Male	27,905	54	29.96	12.68	0.93	3.39
	Female	27,688	54	28.93	12.03	0.92	3.40
	Title 1	24,715	54	24.70	11.50	0.91	3.40
	English Learner	2,487	54	17.59	9.52	0.88	3.28
	Former EL	5,560	54	28.47	11.72	0.92	3.39
	SWD	6,579	54	20.98	11.45	0.91	3.37
	Plan504	3,705	54	27.92	11.88	0.92	3.40
6	All Students	57,815	54	26.85	12.75	0.93	3.40
	EL/FEL	8,529	54	22.18	12.10	0.92	3.32
	Low Income	23,771	54	21.20	10.91	0.91	3.27
	African American/Black	5,020	54	20.29	10.82	0.91	3.24
	Asian	4,406	54	37.28	12.24	0.93	3.26
	Hispanic/Latino	11,410	54	20.54	10.80	0.91	3.25
	Native American	113	54	24.11	12.07	0.92	3.34
	White	33,354	54	29.19	11.48	0.91	3.41
	Pacific Islander/Hawaiian	36	54	31.67	13.26	0.94	3.29
	Multi-Race; Non-Hispanic/Latino-Race	2,589	54	28.56	13.05	0.93	3.42
	Male	28,568	54	27.65	12.58	0.93	3.41
	Female	28,322	54	26.86	12.22	0.92	3.41
	Title 1	23,068	54	22.58	11.34	0.91	3.31
	English Learner	2,068	54	13.85	9.12	0.90	2.95
	Former EL	6,461	54	24.84	11.72	0.92	3.35
SWD	6,918	54	18.11	10.86	0.91	3.19	
Plan504	4,191	54	25.69	11.42	0.91	3.38	
7	All Students	60,204	54	23.36	13.07	0.93	3.50
	EL/FEL	8,309	54	17.66	11.32	0.91	3.34
	Low Income	25,311	54	17.68	10.34	0.90	3.31
	African American/Black	5,401	54	17.19	10.19	0.89	3.31
	Asian	4,645	54	35.07	13.73	0.94	3.37
	Hispanic/Latino	12,157	54	17.04	10.20	0.90	3.29
	Native American	141	54	20.94	12.53	0.93	3.40
	White	34,238	54	25.49	12.19	0.92	3.51
	Pacific Islander/Hawaiian	64	54	21.80	11.47	0.91	3.43
	Multi-Race; Non-Hispanic/Latino	2,651	54	24.87	13.63	0.93	3.54
	Male	30,030	54	24.24	13.05	0.93	3.49

continued

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
7	Female	29,193	54	23.15	12.62	0.92	3.53
	Title 1	24,054	54	19.00	11.11	0.91	3.38
	English Learner	2,209	54	11.67	8.44	0.88	2.90
	Former EL	6,099	54	19.83	11.44	0.91	3.41
	SWD	7,459	54	15.10	10.08	0.90	3.14
	Plan504	4,553	54	22.26	11.73	0.91	3.44
8	All Students	63,247	54	27.70	13.60	0.93	3.56
	EL/FEL	7,660	54	20.76	11.99	0.92	3.41
	Low Income	26,340	54	21.99	11.73	0.91	3.45
	African American/Black	5,587	54	21.66	11.55	0.91	3.43
	Asian	4,787	54	39.21	12.53	0.93	3.33
	Hispanic	12,756	54	21.49	11.74	0.91	3.43
	Native American	130	54	26.58	12.33	0.92	3.59
	White	36,459	54	29.93	12.50	0.92	3.57
	Pacific Islander/Hawaiian	54	54	27.85	11.44	0.90	3.56
	Multi-Race; Non-Hispanic/Latino	2,507	54	28.78	13.99	0.93	3.59
	Male	31,342	54	28.15	13.58	0.93	3.59
	Female	30,843	54	28.08	12.95	0.92	3.55
	Title 1	24,126	54	23.55	12.23	0.92	3.49
	English Learner	2,415	54	14.34	9.43	0.89	3.08
	Former EL	5,245	54	23.71	11.88	0.91	3.48
	SWD	8,032	54	17.71	10.86	0.91	3.30
Plan504	5,136	54	26.40	12.33	0.92	3.56	
10	All Students	63,457	60	31.08	15.36	0.94	3.72
	EL/FEL	5,218	60	19.88	12.80	0.92	3.54
	Low Income	24,738	60	24.33	13.22	0.92	3.70
	African American/Black	5,641	60	23.01	12.74	0.92	3.66
	Asian	4,553	60	42.95	14.38	0.94	3.38
	Hispanic/Latino	12,067	60	23.51	12.97	0.92	3.68
	Native American	128	60	27.40	14.59	0.93	3.72
	White	37,526	60	34.12	13.97	0.93	3.69
	Pacific Islander/Hawaiian	47	60	31.19	16.13	0.95	3.74
	Multi-Race; Non-Hispanic/Latino	2,358	60	32.67	15.96	0.95	3.71
	Male	31,378	60	32.01	15.14	0.94	3.72
	Female	30,735	60	31.21	14.69	0.94	3.73
	Title 1	20,516	60	25.87	13.68	0.93	3.71
	English Learner	2,665	60	14.41	9.31	0.88	3.19
	Former EL	2,553	60	25.60	13.44	0.92	3.69
	SWD	8,981	60	19.52	11.78	0.91	3.52
Plan504	5,382	60	31.14	13.94	0.93	3.73	

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

**Table N-3. Subgroup Reliabilities—STE**

Grade	Subgroup	Number of Students	Maximum	Raw Score		Standard Deviation	Alpha	SEM
				Mean				
5	All Students	52,104	54	31.21		10.99	0.92	3.14
	EL/FEL	7,216	54	27.49		10.09	0.90	3.24
	Low Income	20,529	54	27.48		9.61	0.89	3.25
	African American/Black	4,343	54	26.39		9.56	0.88	3.26
	Asian	4,033	54	36.54		8.95	0.88	3.04
	Hispanic/Latino	9,528	54	26.85		9.70	0.89	3.25
	Native American	109	54	27.61		10.02	0.90	3.23
	White	30,071	54	33.97		8.82	0.87	3.13
	Pacific Islander/Hawaiian	54	54	30.93		11.86	0.93	3.18
	Multi-Race; Non-Hispanic/Latino	2,402	54	33.37		9.98	0.90	3.13
	Male	25,301	54	32.55		9.89	0.90	3.14
	Female	25,231	54	31.71		9.60	0.89	3.19
	Title 1	21,626	54	28.55		9.72	0.89	3.23
	English Learner	2,232	54	20.22		8.66	0.86	3.19
	Former EL	4,984	54	30.75		8.92	0.87	3.23
	SWD	6,058	54	25.67		10.36	0.90	3.21
	Plan504	3,413	54	31.92		9.55	0.89	3.17
8	All Students	59,318	54	27.71		11.87	0.92	3.29
	EL/FEL	6,842	54	21.39		9.79	0.88	3.34
	Low Income	23,534	54	23.97		9.89	0.88	3.36
	African American/Black	4,951	54	23.24		9.51	0.87	3.37
	Asian	4,417	54	35.47		9.70	0.89	3.16
	Hispanic/Latino	11,300	54	23.10		9.93	0.89	3.35
	Native American	122	54	26.42		10.55	0.90	3.31
	White	33,523	54	30.90		9.77	0.89	3.30
	Pacific Islander/Hawaiian	48	54	29.21		9.51	0.88	3.31
	Multi-Race; Non-Hispanic/Latino	2,259	54	29.70		11.02	0.91	3.30
	Male	28,505	54	29.19		10.89	0.91	3.29
	Female	28,021	54	28.74		10.25	0.89	3.36
	Title 1	21,309	54	24.96		10.13	0.89	3.36
	English Learner	2,152	54	14.95		7.86	0.84	3.11
	Former EL	4,690	54	24.35		9.15	0.86	3.38
	SWD	7,433	54	21.13		9.99	0.89	3.30
	Plan504	4,705	54	28.71		10.13	0.89	3.33

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



**Table N-4. Subgroup Reliabilities—Biology**

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
HS	All Students	52,389	60	31.99	13.54	0.93	3.55
	EL/FEL	5,503	60	21.97	11.22	0.90	3.52
	Low Income	22,437	60	26.80	11.75	0.91	3.58
	African American/Black	4,619	60	26.48	11.53	0.90	3.59
	Asian	3,801	60	40.28	12.93	0.93	3.34
	Hispanic/Latino	11,126	60	25.76	11.74	0.91	3.57
	Native American	133	60	28.73	11.96	0.91	3.56
	White	29,604	60	35.17	11.93	0.91	3.51
	Pacific Islander/Hawaiian	57	60	31.30	13.32	0.93	3.52
	Multi-Race; Non-Hispanic/Latino	1,950	60	34.05	13.28	0.93	3.55
	Male	25,582	60	32.53	13.07	0.93	3.56
	Female	25,532	60	32.75	12.65	0.92	3.57
	Title 1	18,589	60	28.23	12.05	0.91	3.58
	English Learner	2,905	60	16.66	8.32	0.84	3.31
	Former EL	2,598	60	27.92	11.06	0.90	3.58
	SWD	7,029	60	24.15	11.19	0.90	3.54
	Plan504	4,381	60	32.75	11.96	0.91	3.55

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

**Table N-5. Subgroup Reliabilities—Introductory Physics**

Grade	Subgroup	Number of Students	Maximum	Raw Score		Alpha	SEM
				Mean	Standard Deviation		
HS	All Students	12,903	60	34.83	12.64	0.92	3.48
	EL/FEL	1,282	60	26.09	11.70	0.91	3.51
	Low Income	4,778	60	27.96	11.17	0.90	3.52
	African American/Black	1,305	60	26.97	10.70	0.89	3.53
	Asian	1,068	60	44.35	10.74	0.91	3.15
	Hispanic/Latino	2,414	60	27.72	11.12	0.90	3.50
	Native American	21	60	26.19	8.52	0.85	3.31
	White	7,494	60	37.07	11.64	0.91	3.43
	Pacific Islander/Hawaiian	10	60	27.20	9.01	0.86	3.34
	Multi-Race; Non-Hispanic/Latino	564	60	37.62	13.51	0.94	3.41
	Male	6,591	60	35.43	12.70	0.93	3.46
	Female	6,230	60	34.29	12.40	0.92	3.51
	Title 1	3,502	60	27.59	10.75	0.89	3.49
	English Learner	559	60	21.29	10.06	0.88	3.42
	Former EL	723	60	29.80	11.52	0.91	3.50
	SWD	1,721	60	25.82	11.00	0.90	3.47
	Plan504	1,048	60	34.14	11.56	0.91	3.48

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

**Table N-6. Subgroup Reliabilities—Alt/ELA**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	All Students	871	39	27.93	3.78	0.64	2.27
	EL/FEL	198	39	28.66	3.66	0.64	2.19
	Low Income	643	39	28.04	3.74	0.66	2.18
	African American/Black	115	39	27.89	3.90	0.72	2.06
	Asian	79	39	28.38	3.64	0.55	2.44
	Hispanic/Latino	260	39	28.15	3.61	0.60	2.28
	Native American	0	--	--	--	--	--
	White	367	39	27.71	3.83	0.65	2.27
	Pacific Islander/Hawaiian	1	--	----	--	--	--
	Multi-Race; Non-Hispanic/Latino	49	39	27.76	4.24	0.65	2.52
	Male	614	39	27.82	3.78	0.64	2.26
	Female	257	39	28.19	3.78	0.64	2.28
	Title 1	512	39	28.20	3.73	0.64	2.24
	English Learner	174	39	28.56	3.75	0.65	2.23
	Former EL	24	39	29.42	2.83	0.59	1.81
	SWD	870	39	27.93	3.78	0.64	2.26
	Plan504	5	--	--	--	--	--
4	All Students	836	39	28.28	3.72	0.63	2.27
	EL/FEL	174	39	28.82	3.59	0.71	1.94
	Low Income	614	39	28.32	3.70	0.65	2.18
	African American/Black	146	39	28.21	3.81	0.65	2.24
	Asian	49	39	27.29	4.22	0.52	2.92
	Hispanic/Latino	249	39	28.68	3.43	0.64	2.05
	Native American	2	--	--	--	--	--
	White	347	39	28.14	3.80	0.64	2.27
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	42	39	28.29	3.83	0.41	2.93
	Male	604	39	28.12	3.81	0.66	2.23
	Female	232	39	28.68	3.47	0.54	2.35
	Title 1	484	39	28.59	3.59	0.59	2.30
	English Learner	151	39	28.90	3.60	0.73	1.86
	Former EL	23	39	28.30	3.53	0.56	2.35
	SWD	834	39	28.28	3.73	0.63	2.27
	Plan504	4	--	--	--	--	--
5	All Students	759	39	28.31	3.74	0.67	2.14
	EL/FEL	144	39	28.22	4.10	0.67	2.37
	Low Income	530	39	28.18	3.83	0.67	2.18
	African American/Black	108	39	28.54	3.35	0.70	1.82
	Asian	62	39	28.08	3.92	0.69	2.19
	Hispanic/Latino	212	39	28.48	3.87	0.66	2.26
	Native American	2	--	--	--	--	--
	White	347	39	28.17	3.75	0.68	2.14
	Pacific Islander/Hawaiian	2	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	26	39	28.92	3.38	0.50	2.40
	Male	512	39	28.22	3.69	0.67	2.12
	Female	247	39	28.50	3.84	0.68	2.16
	Title 1	377	39	28.63	3.65	0.66	2.13
	English Learner	130	39	28.28	4.07	0.66	2.37
	Former EL	14	39	27.64	4.48	0.72	2.37
	SWD	758	39	28.31	3.74	0.67	2.13
	Plan504	4	--	--	--	--	--
6	All Students	742	39	28.26	3.69	0.64	2.21
	EL/FEL	151	39	28.94	3.49	0.63	2.11

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
6	Low Income	534	39	28.29	3.72	0.65	2.20
	African American/Black	115	39	28.31	3.17	0.47	2.30
	Asian	41	39	27.95	3.54	0.48	2.57
	Hispanic/Latino	213	39	28.59	3.77	0.66	2.21
	Native American	2	--	--	--	--	--
	White	334	39	28.03	3.84	0.69	2.12
	Pacific Islander/Hawaiian	1	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	35	39	28.89	3.35	0.54	2.27
	Male	524	39	28.15	3.64	0.63	2.20
	Female	218	39	28.53	3.81	0.66	2.21
	Title 1	342	39	28.77	3.44	0.65	2.05
	English Learner	134	39	29.14	3.20	0.64	1.93
	Former EL	17	39	27.41	5.09	0.63	3.10
	SWD	736	39	28.27	3.69	0.64	2.20
	Plan504	5	--	--	--	--	--
	7	All Students	733	39	28.20	3.89	0.63
EL/FEL		138	39	28.71	3.98	0.64	2.39
Low Income		527	39	28.28	3.86	0.65	2.28
African American/Black		124	39	28.87	3.66	0.73	1.90
Asian		55	39	27.85	3.92	0.51	2.76
Hispanic/Latino		211	39	28.38	4.06	0.65	2.41
Native American		0	--	--	--	--	--
White		310	39	27.94	3.84	0.58	2.49
Pacific Islander/Hawaiian		0	--	--	--	--	--
Multi-Race; Non-Hispanic/Latino		33	39	27.45	3.87	0.59	2.48
Male		508	39	28.05	3.92	0.59	2.50
Female		224	39	28.52	3.82	0.69	2.13
Title 1		325	39	28.66	3.85	0.62	2.38
English Learner		123	39	28.87	3.95	0.65	2.33
Former EL		15	39	27.47	4.19	0.49	2.99
SWD		731	39	28.21	3.87	0.63	2.37
Plan504	5	--	--	--	--	--	
8	All Students	757	39	28.43	3.58	0.68	2.01
	EL/FEL	146	39	29.30	3.26	0.65	1.93
	Low Income	544	39	28.48	3.58	0.72	1.90
	African American/Black	104	39	28.99	3.04	0.56	2.03
	Asian	42	39	29.10	3.05	0.56	2.02
	Hispanic/Latino	237	39	28.83	3.57	0.71	1.92
	Native American	4	--	--	--	--	--
	White	344	39	27.83	3.75	0.70	2.05
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	26	39	29.00	3.29	0.38	2.58
	Male	518	39	28.43	3.49	0.69	1.95
	Female	239	39	28.42	3.76	0.67	2.16
	Title 1	337	39	28.93	3.45	0.59	2.20
	English Learner	129	39	29.18	3.36	0.66	1.97

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
8	Former EL	17	39	30.18	2.27	0.38	1.79
	SWD	754	39	28.42	3.58	0.68	2.02
	Plan504	6	--	--	--	--	--
10	All Students	739	39	28.25	4.05	0.65	2.41
	EL/FEL	90	39	29.80	3.60	0.69	2.00
	Low Income	479	39	28.28	4.15	0.68	2.35
	African American/Black	108	39	28.37	4.58	0.73	2.39
	Asian	53	39	28.19	3.73	0.59	2.38
	Hispanic/Latino	184	39	29.13	3.65	0.60	2.31
	Native American	3	--	--	--	--	--
	White	369	39	27.73	4.08	0.65	2.43
	Pacific Islander/Hawaiian	4	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	18	39	29.28	3.63	0.28	3.08
	Male	493	39	28.37	4.11	0.65	2.42
	Female	246	39	28.02	3.93	0.63	2.38
	Title 1	231	39	28.47	4.53	0.66	2.63
	English Learner	83	39	29.93	3.55	0.73	1.86
	Former EL	7	--	--	--	--	--
	SWD	738	39	28.25	4.05	0.65	2.41
	Plan504	1	--	--	--	--	--

*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 N-7. Subgroup Reliabilities—Alt/Mathematics**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	All Students	779	26	21.05	1.54	0.59	0.99
	EL/FEL	174	26	21.06	1.76	0.64	1.05
	Low Income	580	26	21.01	1.59	0.59	1.02
	African American/Black	102	26	21.17	1.31	0.52	0.91
	Asian	71	26	21.10	1.48	0.56	0.99
	Hispanic/Latino	241	26	21.14	1.55	0.60	0.97
	Native American	1	--	--	--	--	--
	White	321	26	20.93	1.60	0.58	1.03
	Pacific Islander/Hawaiian	2	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	41	26	21.15	1.68	0.72	0.89
	Male	540	26	21.10	1.54	0.58	0.99
	Female	239	26	20.94	1.56	0.60	0.99
	Title 1	463	26	21.14	1.53	0.61	0.95
	English Learner	157	26	20.97	1.83	0.64	1.10
	Former EL	17	26	21.88	0.33	-0.08	0.35
	SWD	777	26	21.05	1.55	0.59	0.99
	Plan504	4	--	--	--	--	--
4	All Students	741	26	21.14	1.41	0.61	0.88
	EL/FEL	163	26	21.38	1.20	0.70	0.66
	Low Income	541	26	21.13	1.38	0.60	0.87
	African American/Black	130	26	21.19	1.43	0.59	0.91
	Asian	41	26	20.76	1.53	0.50	1.08
	Hispanic/Latino	226	26	21.13	1.44	0.65	0.85
	Native American	2	--	--	--	--	--
	White	303	26	21.17	1.40	0.62	0.86
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	38	26	21.16	1.20	0.41	0.92
	Male	529	26	21.09	1.48	0.63	0.90
	Female	212	26	21.26	1.21	0.53	0.83
	Title 1	429	26	21.31	1.19	0.56	0.79
	English Learner	142	26	21.40	1.14	0.69	0.63
	Former EL	21	26	21.24	1.61	0.75	0.80
	SWD	739	26	21.15	1.41	0.61	0.88
	Plan504	6	--	--	--	--	--
5	All Students	670	26	21.08	1.51	0.65	0.90
	EL/FEL	126	26	21.24	1.40	0.70	0.77
	Low Income	474	26	21.06	1.53	0.67	0.88
	African American/Black	107	26	21.26	1.26	0.56	0.83
	Asian	52	26	21.06	1.54	0.66	0.90
	Hispanic/Latino	191	26	21.24	1.34	0.62	0.82
	Native American	2	--	--	--	--	--
	White	291	26	20.89	1.69	0.67	0.97
	Pacific Islander/Hawaiian	1	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	26	26	21.31	1.05	0.53	0.72
	Male	445	26	21.08	1.48	0.63	0.90
	Female	225	26	21.07	1.56	0.68	0.88
	Title 1	330	26	21.32	1.30	0.66	0.76
	English Learner	117	26	21.25	1.40	0.70	0.77
	Former EL	9	--	--	--	--	--
	SWD	669	26	21.08	1.51	0.64	0.90
	Plan504	3	--	--	--	--	--
6	All Students	692	26	21.03	1.64	0.61	1.02
	EL/FEL	142	26	21.44	1.05	0.52	0.73
	Low Income	494	26	21.12	1.58	0.60	1.00
	African American/Black	107	26	21.08	1.46	0.56	0.97
	Asian	37	26	21.51	0.80	0.29	0.68

continued

Grade	Subgroup	Number of Students	Raw Score				Alpha	SEM
			Maximum	Mean	Standard Deviation			
6	Hispanic/Latino	193	26	21.18	1.68	0.59	1.07	
	Native American	2	--	--	--	--	--	
	White	320	26	20.87	1.75	0.65	1.04	
	Pacific Islander/Hawaiian	1	--	--	--	--	--	
	Multi-Race; Non-Hispanic/Latino	31	26	21.29	1.30	0.39	1.01	
	Male	484	26	21.02	1.64	0.60	1.04	
	Female	208	26	21.04	1.65	0.65	0.98	
	Title 1	319	26	21.30	1.30	0.63	0.79	
	English Learner	127	26	21.44	1.05	0.50	0.74	
	Former EL	15	26	21.40	1.12	0.70	0.61	
	SWD	686	26	21.03	1.65	0.61	1.02	
Plan504	5	--	--	--	--	--		
7	All Students	662	26	21.13	1.41	0.54	0.95	
	EL/FEL	127	26	21.33	1.25	0.59	0.80	
	Low Income	475	26	21.14	1.41	0.57	0.92	
	African American/Black	112	26	21.20	1.56	0.69	0.87	
	Asian	50	26	20.92	1.66	0.54	1.13	
	Hispanic/Latino	193	26	21.16	1.36	0.55	0.91	
	Native American	0	--	--	--	--	--	
	White	279	26	21.13	1.35	0.47	0.98	
	Pacific Islander/Hawaiian	0	--	--	--	--	--	
	Multi-Race; Non-Hispanic/Latino	28	26	21.14	1.35	0.53	0.93	
	Male	457	26	21.19	1.32	0.49	0.95	
	Female	204	26	21.00	1.59	0.62	0.97	
	Title 1	302	26	21.32	1.25	0.58	0.81	
	English Learner	112	26	21.30	1.31	0.61	0.82	
Former EL	15	26	21.53	0.64	-0.08	0.67		
SWD	660	26	21.14	1.41	0.54	0.95		
Plan504	5	--	--	--	--	--		
8	All Students	686	26	20.95	1.68	0.64	1.00	
	EL/FEL	129	26	21.04	1.73	0.70	0.95	
	Low Income	493	26	20.97	1.70	0.69	0.96	
	African American/Black	96	26	21.07	1.46	0.54	0.99	
	Asian	40	26	21.18	1.38	0.59	0.88	
	Hispanic/Latino	211	26	21.09	1.59	0.68	0.90	
	Native American	4	--	--	--	--	--	
	White	311	26	20.78	1.80	0.65	1.06	
	Pacific Islander/Hawaiian	0	--	--	--	--	--	
	Multi-Race; Non-Hispanic/Latino	23	26	20.96	1.89	0.54	1.29	
	Male	478	26	21.02	1.59	0.61	0.99	
	Female	208	26	20.78	1.86	0.69	1.04	
	Title 1	308	26	21.25	1.42	0.64	0.85	
	English Learner	115	26	21.07	1.71	0.69	0.95	
Former EL	14	26	20.79	1.93	0.76	0.95		
SWD	682	26	20.95	1.67	0.64	1.00		
Plan504	5	--	--	--	--	--		
10	All Students	746	39	30.16	3.76	0.79	1.72	
	EL/FEL	89	39	30.84	3.50	0.83	1.43	
	Low Income	479	39	30.17	3.86	0.78	1.79	
	African American/Black	103	39	30.57	3.63	0.83	1.49	
	Asian	51	39	30.73	3.50	0.87	1.25	
	Hispanic/Latino	191	39	30.36	3.58	0.70	1.95	
	Native American	3	--	--	--	--	--	
	White	376	39	29.83	3.92	0.79	1.80	
	Pacific Islander/Hawaiian	4	--	--	--	--	--	
	Multi-Race; Non-Hispanic/Latino	18	39	30.78	3.34	0.81	1.47	
	Male	501	39	30.22	3.81	0.77	1.83	
Female	245	39	30.02	3.65	0.82	1.56		

continued

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
10	Title 1	236	39	30.30	3.85	0.79	1.77
	English Learner	83	39	30.71	3.58	0.83	1.48
	Former EL	6	--	--	--	--	--
	SWD	745	39	30.16	3.76	0.79	1.71
	Plan504	1	--	--	--	--	--

**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 N-8. Subgroup Reliabilities—Alt/STE**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
5	All Students	702	39	29.81	3.60	0.76	1.77
	EL/FEL	134	39	30.51	3.17	0.72	1.66
	Low Income	493	39	29.75	3.69	0.75	1.84
	African American/Black	99	39	30.43	3.31	0.63	2.02
	Asian	62	39	29.79	3.12	0.57	2.03
	Hispanic/Latino	199	39	29.95	3.57	0.73	1.86
	Native American	1	--	--	--	--	--
	White	314	39	29.59	3.75	0.77	1.79
	Pacific Islander/Hawaiian	2	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	25	39	29.04	3.92	--	--
	Male	475	39	29.78	3.56	0.73	1.86
	Female	227	39	29.86	3.68	0.80	1.64
	Title 1	355	39	30.05	3.45	0.73	1.81
	English Learner	125	39	30.40	3.23	0.73	1.69
	Former EL	9	--	--	--	--	--
SWD	701	39	29.81	3.60	0.76	1.77	
Plan504	5	--	--	--	--	--	
8	All Students	708	39	30.00	3.53	0.74	1.82
	EL/FEL	138	39	30.41	3.48	0.71	1.87
	Low Income	513	39	30.03	3.62	0.75	1.79
	African American/Black	95	39	30.33	3.34	0.75	1.69
	Asian	44	39	30.02	3.04	0.56	2.02
	Hispanic/Latino	220	39	30.38	3.37	0.70	1.84
	Native American	3	--	--	--	--	--
	White	319	39	29.71	3.72	0.74	1.88
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	26	39	29.19	3.57	0.70	1.95
	Male	489	39	29.96	3.62	0.74	1.85
	Female	219	39	30.10	3.32	0.73	1.74
	Title 1	321	39	30.31	3.45	0.72	1.83
	English Learner	121	39	30.18	3.62	0.71	1.95
	Former EL	17	39	32.06	1.56	--	--
SWD	704	39	30.01	3.52	0.73	1.82	
Plan504	4	--	--	--	--	--	

**Table N-9. Subgroup Reliabilities—Alt/Biology**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	432	39	29.85	3.65	0.69	2.02
	EL/FEL	44	39	30.02	3.53	0.71	1.89
	Low Income	260	39	29.81	3.77	0.69	2.10
	African American/Black	53	39	30.00	4.29	0.79	1.97
	Asian	26	39	30.04	3.39	0.69	1.90
	Hispanic/Latino	101	39	30.06	3.47	0.65	2.05
	Native American	1	--	--	--	--	--
	White	239	39	29.67	3.64	0.69	2.04
	Pacific Islander/Hawaiian	3	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	9	--	--	--	--	--
	Male	289	39	29.88	3.47	0.66	2.01
	Female	143	39	29.79	3.99	0.75	1.99
	Title 1	125	39	29.98	3.95	0.64	2.36
	English Learner	40	39	29.97	3.59	0.72	1.91
	Former EL	4	--	--	--	--	--
	SWD	431	39	29.84	3.65	0.69	2.02
	Plan504	0	--	--	--	--	--

*\*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 N-10. Subgroup Reliabilities—Alt/Chemistry**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	122	39	31.75	2.42	0.69	1.34
	EL/FEL	24	39	32.42	1.72	0.53	1.17
	Low Income	99	39	31.66	2.62	0.73	1.37
	African American/Black	22	39	31.91	2.20	0.82	0.93
	Asian	6	--	--	--	--	--
	Hispanic/Latino	57	39	31.60	2.75	0.56	1.83
	Native American	1	--	--	--	--	--
	White	33	39	31.58	2.28	0.70	1.24
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	3	--	--	--	--	--
	Male	82	39	31.74	2.41	0.62	1.49
	Female	40	39	31.75	2.46	0.78	1.16
	Title 1	73	39	31.53	2.76	0.69	1.54
	English Learner	22	39	32.41	1.79	0.60	1.14
	Former EL	2	--	--	--	--	--
	SWD	122	39	31.75	2.42	0.69	1.34
	Plan504	0	--	--	--	--	--

*\*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 N-11. Subgroup Reliabilities—Alt/Introductory Physics**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	73	39	28.19	4.68	0.69	2.61
	EL/FEL	7	--	--	--	--	--
	Low Income	54	39	28.09	4.69	0.65	2.79
	African American/Black	7	--	--	--	--	--
	Asian	3	--	--	--	--	--
	Hispanic/Latino	20	39	28.80	4.66	0.67	2.67
	Native American	0	--	--	--	--	--
	White	40	39	27.00	4.79	0.66	2.77
	Pacific Islander/Hawaiian	1	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	2	--	--	--	--	--
	Male	42	39	28.17	4.87	0.72	2.59
	Female	31	39	28.23	4.48	0.73	2.32
	Title 1	16	39	31.25	2.67	0.67	1.53
	English Learner	6	--	--	--	--	--
	Former EL	1	--	--	--	--	--
	SWD	73	39	28.19	4.68	0.69	2.61
	Plan504	2	--	--	--	--	--

**Table N-12. Subgroup Reliabilities—Alt/Technology/Engineering**

Grade	Subgroup	Number of Students	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	All Students	119	39	31.29	2.84	0.72	1.51
	EL/FEL	15	39	31.07	3.28	0.78	1.54
	Low Income	75	39	31.13	2.96	0.68	1.67
	African American/Black	14	39	30.50	4.16	0.54	2.82
	Asian	10	39	32.60	1.26	0.84	0.50
	Hispanic/Latino	28	39	31.36	2.25	0.77	1.09
	Native American	1	--	--	--	--	--
	White	60	39	31.17	3.02	0.71	1.64
	Pacific Islander/Hawaiian	0	--	--	--	--	--
	Multi-Race; Non-Hispanic/Latino	6	--	--	--	--	--
	Male	84	39	30.92	3.19	0.74	1.64
	Female	35	39	32.20	1.45	0.64	0.87
	Title 1	24	39	30.63	3.19	0.75	1.61
	English Learner	15	39	31.07	3.28	0.78	1.54
	Former EL	0	--	--	--	--	--
	SWD	119	39	31.29	2.84	0.72	1.51
	Plan504	0	--	--	--	--	--

**Table N-13. Reliabilities by Reporting Category by Grade—ELA**

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	RE	23	27	16.20	5.91	0.87	2.14
	LA	8	13	7.82	3.02	0.75	1.50
	WR	1	4	0.70	1.00	--	--
4	RE	22	28	17.06	5.88	0.84	2.34
	LA	9	12	6.70	2.89	0.73	1.50
	WR	1	4	1.16	1.11	--	--
5	RE	22	26	18.10	5.83	0.87	2.07
	LA	9	14	8.52	3.28	0.78	1.55
	WR	2	8	2.07	1.83	0.61	1.14
6	RE	24	27	17.26	6.40	0.88	2.18
	LA	7	13	7.51	3.24	0.75	1.64
	WR	2	10	3.09	1.89	0.82	0.81
7	RE	25	29	17.97	6.69	0.87	2.41
	LA	7	11	6.61	2.84	0.74	1.45
	WR	2	10	3.45	2.05	0.83	0.84
8	RE	24	28	19.85	6.01	0.88	2.11
	LA	7	12	7.88	3.08	0.73	1.60
	WR	2	10	3.83	2.29	0.86	0.87
10	RE	23	30	21.86	6.24	0.87	2.28
	LA	7	11	8.71	2.71	0.77	1.30
	WR	2	10	5.17	2.37	0.86	0.87

**Table N-14. Reliabilities by Reporting Category by Grade—Mathematics**

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
3	OA	12	14	7.31	3.87	0.83	1.59
	NT	5	7	4.01	2.15	0.72	1.15
	NF	8	10	6.64	2.59	0.72	1.37
	MD	10	12	6.93	3.07	0.72	1.62
	GE	5	5	2.24	1.35	0.50	0.95
4	OA	7	11	6.35	2.92	0.68	1.65
	NT	7	10	6.80	2.62	0.70	1.43
	NF	13	16	9.40	4.47	0.85	1.71
	MD	7	11	5.17	3.01	0.73	1.56
	GE	6	6	3.00	1.66	0.64	0.99
5	OA	4	8	4.37	2.00	0.57	1.30
	NT	13	16	9.01	4.25	0.81	1.86
	NF	10	14	7.00	3.74	0.80	1.67
	MD	9	9	4.37	2.40	0.75	1.20
	GE	4	7	4.24	2.10	0.54	1.42
6	RP	10	11	6.63	2.85	0.78	1.34
	NS	8	11	5.04	2.91	0.72	1.54
	EE	12	16	8.22	4.22	0.80	1.88
	GE	5	8	3.28	2.42	0.60	1.53
	SP	5	8	3.68	1.88	0.54	1.28
7	RP	7	11	6.09	2.87	0.69	1.59
	NS	10	10	4.43	2.72	0.76	1.34
	EE	10	14	5.40	3.89	0.79	1.78
	GE	5	8	2.63	2.18	0.55	1.46
	SP	8	11	4.82	2.94	0.68	1.67
8	NE	17	21	11.14	5.38	0.85	2.08
	FN	8	11	5.49	3.21	0.70	1.76
	GE	12	16	8.65	4.35	0.80	1.93
	SP	3	6	2.42	1.81	0.49	1.30
10	NE	5	9	4.31	2.38	0.64	1.42
	FN	16	21	11.61	6.02	0.87	2.20
	GE	16	21	9.81	5.39	0.83	2.20
	SP	5	9	5.35	2.71	0.70	1.49

**Table N-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	8.06	3.28	0.77	1.58
	LS	11	14	8.99	3.21	0.76	1.56
	PS	10	14	7.40	2.89	0.69	1.59
	TE	9	12	6.76	2.90	0.72	1.54
8	ES	10	14	7.72	3.38	0.76	1.66
	LS	11	14	7.23	3.71	0.79	1.71
	PS	10	13	5.46	2.93	0.70	1.62
	TE	10	13	7.29	3.13	0.74	1.59

**Table N-16. Reliabilities by Reporting Category by Grade—Biology**

Grade	Item Reporting Category	Number of Items	Raw Score			Alpha	SEM
			Maximum	Mean	Standard Deviation		
HS	MO	16	21	11.07	5.42	0.84	2.15
	HE	10	15	7.40	3.51	0.73	1.83
	EV	9	12	6.77	3.00	0.73	1.55
	EC	7	12	6.74	2.90	0.73	1.50

**Table N-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	MF	23	30	18.52	6.32	0.86	2.37
	EN	11	18	10.27	4.32	0.80	1.94
	WA	8	12	6.05	2.85	0.66	1.65

**Table N-18. SEM by Performance Level by Grade—Alt/ELA**

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
3	Awareness	36	39	20.31	2.83	2.76
	Emerging	454	39	26.09	3.21	2.52
	Progressing	380	39	30.83	1.18	0.94
	Partially Meeting Expectations-Alt	1	--	--	--	--
4	Awareness	26	39	19.68	2.48	3.37
	Emerging	399	39	26.09	3.26	2.34
	Progressing	409	39	30.9	1.16	0.92
	Not Meeting Expectations-Alt	2	--	--	--	--
5	Awareness	18	39	20.11	3.08	2.92
	Emerging	353	39	25.68	3.08	2.28
	Progressing	386	39	31.06	1.04	0.92
	Not Meeting Expectations-Alt	2	--	--	--	--
6	Awareness	18	39	19.56	2.81	2.47
	Emerging	358	39	26.01	3.25	2.52
	Progressing	365	39	30.89	1.16	0.95
	Not Meeting Expectations-Alt	1	--	--	--	--
7	Awareness	21	39	19.29	2.35	2.74
	Emerging	327	39	25.54	3.29	2.74
	Progressing	384	39	30.95	1.2	0.95
	Not Meeting Expectations-Alt	1	--	--	--	--
8	Awareness	23	39	19.22	2.65	2.14
	Emerging	349	39	26.29	2.9	2.21
	Progressing	384	39	30.92	1.26	0.98
	Not Meeting Expectations-Alt	1	--	--	--	--
10	Awareness	17	39	19.53	3.37	4.5
	Emerging	306	39	25.25	3.02	2.43
	Progressing	406	39	30.99	1.17	0.98
	Partially Meeting Expectations-Alt	2	--	--	--	--
	Not Meeting Expectations-Alt	8	--	--	--	--

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

**Table N-19. SEM by Performance Level by Grade—Alt/Mathematics**

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
3	Awareness	23	26	15.65	1.56	1.98
	Emerging	105	26	18.95	0.96	1.85
	Progressing	650	26	21.57	0.78	0.58
	Not Meeting Expectations-Alt	1	--	--	--	--
4	Awareness	12	26	15.92	1.38	2.1
	Emerging	92	26	18.81	1.14	1.68
	Progressing	636	26	21.56	0.78	0.58
	Not Meeting Expectations-Alt	1	--	--	--	--
5	Awareness	16	26	15.69	1.4	2.04
	Emerging	81	26	18.74	1.21	1.74
	Progressing	571	26	21.56	0.76	0.59
	Not Meeting Expectations-Alt	2	--	--	--	--
6	Awareness	19	26	15.42	1.46	1.61
	Emerging	98	26	19.03	1.08	1.82
	Progressing	573	26	21.58	0.77	0.57
	Not Meeting Expectations-Alt	2	--	--	--	--
7	Awareness	13	26	16	1.29	2.29
	Emerging	87	26	19	1.19	1.81
	Progressing	562	26	21.58	0.75	0.58
8	Awareness	26	26	15.62	1.7	2.48
	Emerging	104	26	19.21	1.24	1.66
	Progressing	554	26	21.55	0.79	0.59
	Not Meeting Expectations-Alt	2	--	--	--	--
10	Awareness	15	39	22.13	2.64	--
	Emerging	183	39	25.23	2.36	1.35
	Progressing	541	39	32.16	1.24	0.66
	Not Meeting Expectations-Alt	7	--	--	--	--
	Awareness	23	26	15.65	1.56	1.98

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

**Table N-20. SEM by Performance Level by Grade—Alt/STE**

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
5	Awareness	35	39	22.57	2.87	--
	Emerging	176	39	25.83	2.5	2.14
	Progressing	488	39	31.73	1.48	0.93
	Partially Meeting Expectations-Alt	1	--	--	--	--
	Not Meeting Expectations-Alt	2	--	--	--	--
8	Awareness	36	39	21.53	2.72	--
	Emerging	153	39	26.14	2.59	2.18
	Progressing	519	39	31.73	1.45	0.94

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

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

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Awareness	26	39	23.15	1.99	3.03
	Emerging	95	39	26.07	2.34	2.49
	Progressing	308	39	31.7	1.54	1.02
	Not Meeting Expectations-Alt	3	--	--	--	--

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

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

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Emerging	12	39	25	0.85	0.16
	Progressing	110	39	32.48	0.93	0.68

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

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

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Emerging	20	39	25.45	2.78	3.89
	Progressing	39	39	31.38	1.84	1.13
	Not Meeting Expectations-Alt	6	--	--	--	--

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

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

Grade	Performance Level	Number of Students	Raw Score			SEM
			Maximum	Mean	Standard Deviation	
HS	Awareness	1	--	--	--	--
	Emerging	14	39	25	2	1.1
	Progressing	104	39	32.22	1.36	0.83

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