



**California Department of Education
Assessment Development &
Administration Division**



**Summative English Language
Proficiency Assessments for California
Technical Report
2017–18 Administration**

Chapter 11 Appendix

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Appendix 11.A: Field Test IRT Parameter Estimates

Table 11.A.1 IRT α -values for ELPAC Oral Language Skill by Grade Levels and Grade Spans

Grade Level or Grade Span	Domain	Number of Items	Mean	Standard Deviation	Minimum	Maximum
Kindergarten	Listening	48	0.57	0.16	0.13	0.88
Kindergarten	Speaking	30	1.08	0.19	0.77	1.48
Grade 1	Listening	57	0.61	0.17	0.21	0.92
Grade 1	Speaking	42	1.04	0.27	0.45	1.87
Grade 2	Listening	61	0.58	0.19	0.17	1.30
Grade 2	Speaking	44	0.82	0.21	0.51	1.48
Grade span 3–5	Listening	65	0.43	0.13	0.19	0.72
Grade span 3–5	Speaking	46	0.76	0.23	0.42	1.48
Grade span 6–8	Listening	65	0.29	0.11	0.06	0.63
Grade span 6–8	Speaking	49	0.70	0.20	0.36	1.26
Grade span 9–10	Listening	70	0.22	0.07	0.03	0.38
Grade span 9–10	Speaking	48	0.61	0.16	0.33	0.98
Grade span 11–12	Listening	70	0.22	0.09	0.03	0.53
Grade span 11–12	Speaking	48	0.59	0.12	0.38	0.94

Table 11.A.2 IRT α -values for ELPAC Written Language Skill by Grade Levels and Grade Spans

Grade Level or Grade Span	Domain	Number of Items	Mean	Standard Deviation	Minimum	Maximum
Kindergarten	Reading	37	0.52	0.30	0.14	1.33
Kindergarten	Writing	24	1.56	0.40	0.96	2.27
Grade 1	Reading	67	0.84	0.26	0.30	1.60
Grade 1	Writing	42	0.97	0.30	0.50	1.75
Grade 2	Reading	81	0.94	0.31	0.18	1.66
Grade 2	Writing	35	0.77	0.19	0.43	1.20
Grade span 3–5	Reading	91	0.61	0.27	0.12	1.25
Grade span 3–5	Writing	30	0.55	0.11	0.28	0.71
Grade span 6–8	Reading	89	0.43	0.19	0.11	0.98
Grade span 6–8	Writing	35	0.53	0.10	0.31	0.70
Grade span 9–10	Reading	90	0.37	0.15	0.08	0.73
Grade span 9–10	Writing	35	0.49	0.10	0.30	0.68
Grade span 11–12	Reading	89	0.41	0.17	0.04	0.74
Grade span 11–12	Writing	35	0.48	0.10	0.23	0.66

Table 11.A.3 IRT *b*-values for ELPAC Oral Language Skill by Grade Levels and Grade Spans

Grade Level or Grade Span	Domain	Number of Items	Mean	Standard Deviation	Minimum	Maximum
Kindergarten	Listening	48	-3.28	1.30	-5.46	1.73
Kindergarten	Speaking	30	-2.76	0.65	-4.25	-1.60
Grade 1	Listening	57	-3.32	0.99	-5.87	-1.04
Grade 1	Speaking	42	-2.67	0.83	-4.24	-1.02
Grade 2	Listening	61	-2.82	1.10	-5.12	1.30
Grade 2	Speaking	44	-2.48	0.78	-4.54	-0.66
Grade span 3–5	Listening	65	-2.46	1.44	-5.87	2.56
Grade span 3–5	Speaking	46	-2.37	0.84	-5.49	-0.74
Grade span 6–8	Listening	65	-1.51	1.94	-4.67	6.07
Grade span 6–8	Speaking	49	-2.06	0.91	-4.30	-0.21
Grade span 9–10	Listening	70	-1.49	1.96	-4.23	5.64
Grade span 9–10	Speaking	48	-1.93	1.24	-5.54	0.77
Grade span 11–12	Listening	70	-1.14	2.04	-4.33	8.96
Grade span 11–12	Speaking	48	-1.75	1.00	-4.22	0.71

Table 11.A.4 IRT *b*-values for ELPAC Written Language Skill by Grade Levels and Grade Spans

Grade Level or Grade Span	Domain	Number of Items	Mean	Standard Deviation	Minimum	Maximum
Kindergarten	Reading	37	-4.70	1.42	-9.84	-1.86
Kindergarten	Writing	24	-3.82	0.47	-4.98	-3.17
Grade 1	Reading	67	-2.93	1.01	-5.97	-0.28
Grade 1	Writing	42	-3.42	0.84	-5.92	-2.01
Grade 2	Reading	81	-2.20	0.78	-3.43	0.72
Grade 2	Writing	35	-2.43	0.57	-3.67	-1.47
Grade span 3–5	Reading	91	-0.48	1.59	-5.48	6.78
Grade span 3–5	Writing	30	-1.48	0.80	-2.61	0.03
Grade span 6–8	Reading	89	0.93	1.69	-1.54	7.20
Grade span 6–8	Writing	35	-0.94	0.79	-2.62	0.31
Grade span 9–10	Reading	90	1.22	1.82	-2.99	9.62
Grade span 9–10	Writing	35	-0.90	0.96	-2.54	0.63
Grade span 11–12	Reading	89	1.33	2.31	-1.11	18.95
Grade span 11–12	Writing	35	-0.94	1.03	-2.83	0.72