

Appendix A: Model Fit Indices, and Posterior Probability Percentages

	READING			MATH		
	BIC	BIC	Posterior	BIC	BIC	Posterior
	N= 1200	N= 4300	Probability	N= 1200	N= 4300	Probability
	Subjects	Data Points	Indices	Subjects	Data Points	Indices
3 Group	-2642.2	-2651.0	81-86%	-2794.3	-2803.1	79-82%
4 Group	-2626.0	-2638.7	77-83%	-2789.6	-2800.4	68-84%
5 Group	-2623.4	-2639.2	64-81%	-2784.4	-2798.4	70-77%

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Birth Cohort. Selected years 2001-2007

Appendix B: Pairwise differences between Mean scores of LPI Trajectories in Reading and Math and Full term Mean scores at All Timepoints

LPI Reading Trajectories

		High	Middle-High	Reference	At-Risk
9-months	LPI Mean	-0.19	0.02	-0.14	-0.27
	Full term Mean	-0.01	-0.01	-0.01	-0.01
	p-value	p < .001	p = .38	p < .001	p < .001
24-months	LPI Mean	0.06	0.80	-0.02	-0.70
	Full term Mean	-0.01	-0.01	-0.01	-0.01
	p-value	p = .21	p < .001	p = .63	p < .001
Preschool	LPI Mean	0.93	0.44	-0.10	-0.43
	Full term Mean	0.06	0.06	0.06	0.06
	p-value	p < .001	p < .001	p < .001	p < .001
Kindergarten	LPI Mean	0.63	0.38	0.01	-0.57
	Full term Mean	0.05	0.05	0.05	0.05
	p-value	p < .001	p < .001	p = .10	p < .001

LPI Math Trajectories

		High	Reference	At-Risk
9-months	LPI Mean	-0.08	-0.17	-0.24
	Full term Mean	-0.01	-0.01	-0.01
	p-value	p < .001	p < .001	p < .001
24-months	LPI Mean	0.38	-0.14	-0.66
	Full term Mean	-0.01	-0.01	-0.01
	p-value	p < .001	p < .001	p < .001
Preschool	LPI Mean	0.51	-0.10	-0.61
	Full term Mean	0.06	0.06	0.06
	p-value	p < .001	p < .001	p < .001
Kindergarten	LPI Mean	0.51	-0.04	-0.78
	Full term Mean	0.05	0.05	0.05
	p-value	p < .001	p < .001	p < .001

p-values indicate differences between mean LPI scores for each trajectory, and mean full-term scores at each timepoint, with significant pairwise differences indicated by $p < .05$.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Early Childhood Longitudinal Study, Birth Cohort. Selected years 2001-2007