

# An Example of Hierarchical Linear Modeling

Significant factors	Estimate	Interpretation
<b>Average increment in student's Math scale score within school for...</b>		
Year	2.10	On average students grew 2.10 scale scores between two years.
students who are ELL	-5.32	Students who were ELL on average got 5.32 points lower on the test than non-ELL.
students who are female	1.12	Girls on average got 1.12 points higher than boys.
<b>Average increment in school mean CAT scale score for...</b>		
Year	1.71	On average schools grew 1.71 point of scale score between two years.
Program type in school	2.23	Schools having French immersion programs performed significantly better than the rest by 2.23 points.
Average class size in school	-3.12	Schools having smaller average class size performed significantly better then schools having bigger class size by 3.12 points.
<b>Average increment in school growth speed for...</b>		
Intervention in school	1.01	Schools providing intervention on average grew faster than schools not providing intervention by 1.01 points between two years.
Parental involvement in school (or other school culture variables)	0.50	Schools where parents are more involved on average grew faster than schools where parents are less involved by 0.5 point between two years.