

Effect Sizes of Major Recommendations

Throughout the report, we have identified “effect sizes” of the programmatic proposals. Effect size is the amount of a standard deviation in higher performance that the program produces for students who participate in the program versus students who did not. An effect size of 1.0 would indicate that the average student’s performance would move from the 50th to the 83rd percentile. The research field generally recognizes effect sizes greater than 0.25 as significant and greater than 0.50 as substantial. The effect sizes of the major recommendations are presented in Figure 4.

Figure 4

Estimated Effect Sizes of Major Recommendations

Recommended Program	Effect Size
Full Day Kindergarten	0.77
Class Size of 15 in Grades K-3	
Overall	0.25
Low income and Minority Students	0.50
Multi-age classrooms	
Multi-grade Classrooms	-0.1 to 0.0
Multi-age Classrooms	0.0 to 0.50
Professional Development with Classroom Instructional Coaches	1.25 to 2.70
Tutoring, 1-1	0.4 to 2.5
English-Language Learners	0.45
Extended-Day Programs	No consistent impact due to variation in program focus and quality
Structured Academic Focused Summer school	0.45
Embedded Technology	0.30 to 0.38
Gifted and Talented	
Accelerated Instruction or Grade Skipping	0.5 to 1.0
Enrichment Programs	0.4 to 0.7