

Summary and conclusions

We took the data correspondent to 15 schools with a total of X students standardized and aggregated it to showcase school performance and trends, the main objective was to provide strong KPI to help with the school decision-making and budget. All values in the data set were considered.

The analysis was divided into three main categories, the district summary to showcase the overall performance of the schools in the district. A school summary that gives us more information regarding each of the fifteen schools and how their students are functioning considering the type of school, budget, and passing rates.

At the last part of the analysis, we summarized the most important findings regarding the previous metrics, grouping the schools by their passing grades, overall performance, and budget spending.

We observed that, the highest overall performing schools were charter schools, their students seem to have better passing grades in general with a very similar average grade for math and reading and a slightly higher percentage of passing reading than math. We also noted that the number of students on this school type is lower than the district type with an expending budget under \$638 per student.

Top Five Highest-Performing Schools (by % Overall Passing)

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
Cabrera High School	Charter	1858	\$1,081,356.00	\$582.00	83.061895	83.975780	94.133477	97.039828	91.334769
Thomas High School	Charter	1635	\$1,043,130.00	\$638.00	83.418349	83.848930	93.272171	97.308869	90.948012
Griffin High School	Charter	1468	\$917,500.00	\$625.00	83.351499	83.816757	93.392371	97.138965	90.599455
Wilson High School	Charter	2283	\$1,319,574.00	\$578.00	83.274201	83.989488	93.867718	96.539641	90.582567
Pena High School	Charter	962	\$585,858.00	\$609.00	83.839917	84.044699	94.594595	95.945946	90.540541

Relatively, the bottom performing schools were district schools, with a larger number of students (>2,917) where overall passing rate of 53% percent of the students. Average reading scores and math scores were lower than those in the charter school with better performance on reading test. Percentage passing for reading was higher than math percentage, which can make us think that the reading test is carrying most of the weight

for overall passing. The budget per student was slightly higher than the charter schools (\$637-\$655), in this case does not show a relationship between budget and passing grades.

Bottom Five Performing Schools (By % Overall Passing)

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
Rodriguez High School	District	3999	\$2,547,363.00	\$637.00	76.842711	80.744686	66.366592	80.220055	52.988247
Figueroa High School	District	2949	\$1,884,411.00	\$639.00	76.711767	81.158020	65.988471	80.739234	53.204476
Huang High School	District	2917	\$1,910,635.00	\$655.00	76.629414	81.182722	65.683922	81.316421	53.513884
Hernandez High School	District	4635	\$3,022,020.00	\$652.00	77.289752	80.934412	66.752967	80.862999	53.527508
Johnson High School	District	4761	\$3,094,650.00	\$650.00	77.072464	80.966394	66.057551	81.222432	53.539172

There is an opposite relationship between budget spending and passing rates, as shown in the table below, higher spending budgets don't seem to guarantee a higher passing rate. It's noticeable that those with the least allocated resources got a higher overall passing rate.

Spending summary

	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
Spending Ranges (Per Student)					
<\$585	83.455399	83.933814	93.460096	96.610877	90.369459
\$585-630	81.899826	83.155286	87.133538	92.718205	81.418596
\$630-645	78.518855	81.624473	73.484209	84.391793	62.857656
\$645-680	76.997210	81.027843	66.164813	81.133951	53.526855