

PyCity Schools Analysis

This assignment analyzes district and charter schools in a city's school district to identify patterns and trends in school performance. It evaluates standardized test results in reading and math and measures them against the number of students and the school's budget. The following two conclusions were derived from the data.

Charter schools are higher performing than district schools.

Charter schools significantly outperformed district schools in all measured academic areas. The Percent Overall Passing rate in the charts below show charter schools performed in the 90th percentile, while district schools performed much lower in the 50th percentile. Of all areas measured, School Type is the only metric that shows a positive correlation to the Percent Overall Passing rate.

Top Schools by Percent Overall Passing

[24]:

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	Percent Passing Math	Percent Passing Reading	Percent Overall Passing
school_name									
Cabrera High School	Charter	1858	\$1,081,356.00	582.0	83.061895	83.975780	94.133477	97.039828	91.334769
Thomas High School	Charter	1635	\$1,043,130.00	638.0	83.418349	83.848930	93.272171	97.308869	90.948012
Griffin High School	Charter	1468	\$917,500.00	625.0	83.351499	83.816757	93.392371	97.138965	90.599455
Wilson High School	Charter	2283	\$1,319,574.00	578.0	83.274201	83.989488	93.867718	96.539641	90.582567
Pena High School	Charter	962	\$585,858.00	609.0	83.839917	84.044699	94.594595	95.945946	90.540541

Bottom Schools by Percent Overall Passing

[25]:

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	Percent Passing Math	Percent Passing Reading	Percent Overall Passing
school_name									
Rodriguez High School	District	3999	\$2,547,363.00	637.0	76.842711	80.744686	66.366592	80.220055	52.988247
Figueroa High School	District	2949	\$1,884,411.00	639.0	76.711767	81.158020	65.988471	80.739234	53.204476
Huang High School	District	2917	\$1,910,635.00	655.0	76.629414	81.182722	65.683922	81.316421	53.513884
Hernandez High School	District	4635	\$3,022,020.00	652.0	77.289752	80.934412	66.752967	80.862999	53.527508
Johnson High School	District	4761	\$3,094,650.00	650.0	77.072464	80.966394	66.057551	81.222432	53.539172

Budget does not correlate to overall pass rate.

Surprisingly, a school’s budget, Total Budget and Per Student Budget, does not correlate with a school’s Percent Overall Passing rate. Where one might expect that the higher the budget, the higher the academic performance, the data clearly show that charter schools, despite having a lower budget than district schools, score higher in both reading and math when compared to their district school counterparts.

