

PyCitySchools Analysis Report

Summary of Analysis

This report analyzes school performance within a district, focusing on various school and student data metrics. It includes district and charter schools, comparing their performance in average scores, passing rates, and budget allocations. The aim is to identify critical trends and insights that can inform educational policy and resource distribution.

Key Metrics Calculated

1. **District-Level Metrics**:

- Total number of unique schools.
- Total number of students.
- Total budget for all schools.
- Average math and reading scores across the district.
- Percentage of students passing math, reading, and both subjects.

2. **School-Level Metrics**:

- Total students and total budget for each school.
- Budget per student.
- Average math and reading scores for each school.
- Percentage of students passing math, reading, and both subjects for each school.

3. **Summary Tables**:

- Performance categorized by spending per student.
- Performance categorized by school size.
- Performance categorized by school type.

Key Data

F1	School Type	% Passing Math	% Passing Reading	Average Math Score	Average Reading Score	Overall Passing Rate	Per Student Budget	Total School Budget	Total Students
Cabrera High School	Charter	94	94	83	84	91	582	1,081,356	1,858
Griffin High School	Charter	93	93	83	84	91	625	917,500	1,468
Holden High School	Charter	93	93	84	84	89	581	248,087	427
Pena High School	Charter	95	95	84	84	91	609	585,858	962
Shelton High School	Charter	94	94	83	84	90	600	1,056,600	1,761
Thomas High School	Charter	93	93	83	84	91	638	1,043,130	1,635
Wilson High School	Charter	94	94	83	84	91	578	1,319,574	2,283
Wright High School	Charter	93	93	84	84	90	583	1,049,400	1,800
Bailey High School	District	67	67	77	81	55	628	3,124,928	4,976
Figueroa High School	District	66	66	77	81	53	639	1,884,411	2,949
Ford High School	District	68	68	77	81	54	644	1,763,916	2,739
Hernandez High School	District	67	67	77	81	54	652	3,022,020	4,635
Huang High School	District	66	66	77	81	54	655	1,910,635	2,917
Johnson High School	District	66	66	77	81	54	650	3,094,650	4,761
Rodriguez High School	District	66	66	77	81	53	637	2,547,363	3,999

Conclusions and Comparisons

Conclusion 1: Charter Schools Outperform District Schools

****Observation**:** The analysis reveals that charter schools consistently outperform district schools in terms of average scores and passing rates. Charter schools have higher average math and reading scores and significantly higher percentages of students passing both subjects.

****Example Calculation**:**

- ****Average Math Score**:** Charter schools (83.46) vs. District schools (76.94)

- ****Overall Passing Rate**:** Charter schools (90.29%) vs. District schools (53.72%)

It suggests that charter schools may employ more effective teaching methods or benefit from favorable student-to-teacher ratios.

Conclusion 2: Per Student Budget and Performance

****Observation**:** The analysis indicates a complex relationship between per-student budget and school performance. While charter schools generally have lower per-student budgets than district schools, they achieve higher performance metrics.

****Example Calculation**:**

- ****Per Student Budget**:** Charter schools (average \$598.00) vs. District schools (average \$642.14)

- ****Overall Passing Rate**:** Despite lower budgets, charter schools (90.29%) outperform district schools (53.72%).

It suggests that factors other than funding, such as teaching quality, administrative efficiency, and school environment, play crucial roles in determining academic success.

Final Thoughts

The PyCitySchools analysis provides valuable insights into how different types of schools and their funding impact student performance. Despite operating with lower per-student budgets, Charter schools demonstrate higher academic achievement. This finding highlights the need for district schools to explore innovative teaching methods and efficient resource utilization to improve student outcomes. Policymakers should consider these insights when allocating resources and implementing educational reforms to ensure all students have the opportunity to succeed.