Rache Morris PyCitySchools Written Analysis

I concluded that the smaller the school the more chance a student has of passing with great scores. The schools’ having a higher or lower budget didn’t have a direct effect on the passing percentages, but the school sizes did. Chapter schools surpass District schools by 37% in overall passing percentages, 27% in passing math percentages and 16% in passing reading percentages.

**District Summary:**

* There are 15 total schools in this district.
* 39,170 student’s total.
* The total budget for all the schools in this district is $24,649,428.
* The average math score is 79.
* The average reading score is 82.
* 74.98 % of student in this district has passed math with a score above 70.
* 85.80% of students in this district has passed reading with a score above 70.

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|  | Total Schools | Total Students | Total Budget | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **0** | 15 | 39170 | 24649428 | 78.985371 | 81.87784 | 74.980853 | 85.805463 | 65.172326 |

**School Summary:**

* There are two types of schools which is district and charter.
* District schools have more students than Charter schools as District schools has at least 4976 students at most and Charters have at most 1858.
* District schools’ budget is higher than Charter schools has it has more students.
* The total budget for Charter schools ranges from $917 thousand to $1.08 million.
* The total budget for District schools ranges from $1.76 to $3.12 million.
* The budget per student for Charter schools ranges from $582 to $625 per student.
* The budget per student for District schools ranges from $625 to $639 per student.
* Because the District has the most students it has the higher budget.
* Charter schools have higher average math scores at 84 compared to District schools ranging from 77-76.
* Charter schools have higher average reading scores at 83 compared to District schools ranging from 80-81.
* The overall passing rate in Charter schools are ranging from 93-94 which is higher than the district schools passing rate from 53-54.
* The Charter schools having less students than the district schools could be the reason why the Charter schools have higher scores and an higher overall passing rate than the District schools who have more students.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | School Type | Total Students | Total Budget | Per Student Budget | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **school\_name** |  |  |  |  |  |  |  |  |  |
| **Bailey High School** | District | 4976 | $3,124,928.00 | $628.00 | 77.048432 | 81.033963 | 66.680064 | 81.933280 | 54.642283 |
| **Cabrera High School** | Charter | 1858 | $1,081,356.00 | $582.00 | 83.061895 | 83.975780 | 94.133477 | 97.039828 | 91.334769 |
| **Figueroa High School** | District | 2949 | $1,884,411.00 | $639.00 | 76.711767 | 81.158020 | 65.988471 | 80.739234 | 53.204476 |
| **Ford High School** | District | 2739 | $1,763,916.00 | $644.00 | 77.102592 | 80.746258 | 68.309602 | 79.299014 | 54.289887 |
| **Griffin High School** | Charter | 1468 | $917,500.00 | $625.00 | 83.351499 | 83.816757 | 93.392371 | 97.138965 | 90.599455 |

**Highest Performing School**

* As seen here students enrolled in Charter schools tend to outperform those in District schools in both math and reading, achieving higher average scores and passing rates. The overall passing rate for Charter school students is also significantly higher.
* All the highest performing schools are Charter schools with students passing with a score above 70 in math and reading.

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|  | School Type | Total Students | Total Budget | Per Student Budget | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **school\_name** |  |  |  |  |  |  |  |  |  |
| **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 |

**Lowest Performing School**

* The lowest performing schools are District schools with less than 53% of students passing with above 70 in math and reading
* Although District schools have a bigger budget because they have more students than the charter school’s teachers might not be able to have more one on ones with the students as there is so many which means lower reading and math scores.

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|  | School Type | Total Students | Total Budget | Per Student Budget | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **school\_name** |  |  |  |  |  |  |  |  |  |
| **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 |

**Math Scores by Grade**

grade 10th 11th 12th 9th

school\_name

Bailey High School 77.0 77.5 76.5 77.1

Cabrera High School 83.2 82.8 83.3 83.1

Figueroa High School 76.5 76.9 77.2 76.4

Ford High School 77.7 76.9 76.2 77.4

Griffin High School 84.2 83.8 83.4 82.0

Hernandez High School 77.3 77.1 77.2 77.4

Holden High School 83.4 85.0 82.9 83.8

Huang High School 75.9 76.4 77.2 77.0

Johnson High School 76.7 77.5 76.9 77.2

Pena High School 83.4 84.3 84.1 83.6

Rodriguez High School 76.6 76.4 77.7 76.9

Shelton High School 82.9 83.4 83.8 83.4

Thomas High School 83.1 83.5 83.5 83.6

Wilson High School 83.7 83.2 83.0 83.1

Wright High School 84.0 83.8 83.6 83.3

**Reading Scores by Grade**

grade 10th 11th 12th 9th

school\_name

Bailey High School 80.9 80.9 80.9 81.3

Cabrera High School 84.3 83.8 84.3 83.7

Figueroa High School 81.4 80.6 81.4 81.2

Ford High School 81.3 80.4 80.7 80.6

Griffin High School 83.7 84.3 84.0 83.4

Hernandez High School 80.7 81.4 80.9 80.9

Holden High School 83.3 83.8 84.7 83.7

Huang High School 81.5 81.4 80.3 81.3

Johnson High School 80.8 80.6 81.2 81.3

Pena High School 83.6 84.3 84.6 83.8

Rodriguez High School 80.6 80.9 80.4 81.0

Shelton High School 83.4 84.4 82.8 84.1

Thomas High School 84.3 83.6 83.8 83.7

Wilson High School 84.0 83.8 84.3 83.9

Wright High School 83.8 84.2 84.1 83.8

**Scores by School Spending**

* I don’t believe that spending as much to do with the scores as the higher the spending range, the lower the score.
* The ranges $585-650 has a overall passing percentage of 81% in comparison to the highest spending ranges from $645-680 which has a overall passing percentage of 54%
* The budget can be used for anything over than learning, which is something we’re not sure of, but we are sure that a higher budget doesn’t guarantee higher scores

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|  | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **Spending Ranges (Per Student)** |  |  |  |  |  |
| **$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 |
| **<$585** | 83.455399 | 83.933814 | 93.460096 | 96.610877 | 90.369459 |

**Scores by School Size**

* Large school sizes (2000-5000) have overall passing percentages of 53-54%.
* Medium school size (1000-2000) has overall passing percentages of 91%.
* Smaller schools mean more time for teachers to have time with each student so they can pass with over a 70 score.
* Larger schools mean more room for some students to get lost in the crowd and be overlooked when it comes to schoolwork.

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|  | School Type | Total Students | Total Budget | Per Student Budget | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing | Spending Ranges (Per Student) | School Size |
| **school\_name** |  |  |  |  |  |  |  |  |  |  |  |
| **Bailey High School** | District | 4976 | $3,124,928.00 | $628.00 | 77.048432 | 81.033963 | 66.680064 | 81.933280 | 54.642283 | $585-630 | Large (2000-5000) |
| **Cabrera High School** | Charter | 1858 | $1,081,356.00 | $582.00 | 83.061895 | 83.975780 | 94.133477 | 97.039828 | 91.334769 | <$585 | Medium (1000-2000) |
| **Figueroa High School** | District | 2949 | $1,884,411.00 | $639.00 | 76.711767 | 81.158020 | 65.988471 | 80.739234 | 53.204476 | $630-645 | Large (2000-5000) |

**Scores by School Type**

* Students in Charter and District both do well in reading more than math.
* The average math and reading score in Charter schools are just about the same.
* The average math and reading score in District schools have a gap as the math score average is 77 and the reading score average is 81 which suggest that there is more attention in reading than math.

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| --- | --- | --- | --- | --- | --- |
|  | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing |
| **School Type** |  |  |  |  |  |
| **Charter** | 83.473852 | 83.896421 | 93.620830 | 96.586489 | 90.432244 |
| **District** | 76.956733 | 80.966636 | 66.548453 | 80.799062 | 53.672208 |