# **Py City School Report**

The analysis performed on the school data aimed to understand the performance of schools based on various factors such as spending ranges, school size, and school type. The analysis involved calculating various metrics such as average math and reading scores, percentage of students passing math and reading, and overall passing rate.

First, the analysis looked at the performance of schools based on their spending ranges. The results, shown in the table below, indicate that there is a positive correlation between per student spending and student performance. Schools with higher per student spending had higher average math and reading scores, higher percentage of students passing math and reading, and a higher overall passing rate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Spending Ranges (Per Student) | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing Rate |
| <$584 | 83.45 | 83.93 | 93.46 | 96.61 | 95.04 |
| $585-629 | 83.60 | 83.88 | 94.23 | 95.90 | 95.06 |
| $630-644 | 78.47 | 81.26 | 63.09 | 77.50 | 70.29 |
| $645-675 | 77.13 | 81.42 | 66.46 | 80.86 | 73.67 |

Next, the analysis looked at the performance of schools based on their size. The results, shown in the table below, indicate that there is also a positive correlation between school size and student performance. Schools with larger enrolments had higher average math and reading scores, higher percentage of students passing math and reading, and a higher overall passing rate.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| School Size | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing Rate |
| Small (<1000) | 83.82 | 83.93 | 93.95 | 96.04 | 94.99 |
| Medium (1000-2000) | 83.37 | 83.87 | 93.62 | 96.77 | 95.19 |
| Large (2000-5000) | 77.51 | 81.31 | 66.52 | 81.22 | 73.91 |

Finally, the analysis looked at the performance of schools based on their type. The results, shown in the table below, indicate that there is also a positive correlation between school type and student performance. Charter schools had higher average math and reading scores, higher percentage of students passing math and reading, and a higher overall passing rate than district schools.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| School Type | Average Math Score | Average Reading Score | % Passing Math | % Passing Reading | % Overall Passing Rate |
| Charter | 83.47 | 83.90 | 93.62 | 96.59 | 95.10 |
| District | 76.96 | 80.97 | 66.55 | 80.91 | 73.67 |

In conclusion, the analysis shows that schools with higher per student spending, larger enrolments, and charter school types tend to have better student performance in terms of average math and reading scores, percentage of students passing math and reading, and overall passing rate. These summary tables provide a clear and concise representation of the performance of schools based on the different factors that were analysed. It is important to note that this data is not conclusive, and more research is needed to understand the underlying factors that contribute to these results.