**PyCity Schools Analysis**

**Summary of Analysis**

The PyCity Schools analysis provides a comprehensive overview of the performance metrics across various schools within the district. The analysis includes key metrics such as the total number of schools, total students, total budget, average math and reading scores, and the percentage of students passing math, reading, and both subjects overall. The data is further broken down by school type, size, and spending per student to identify trends and insights.

**Key Metrics:**

* **Total Schools**: 15
* **Total Students**: 39,170
* **Total Budget**: $24,649,428.00
* **Average Math Score**: 78.99
* **Average Reading Score**: 81.88
* **% Passing Math**: 74.98%
* **% Passing Reading**: 85.81%
* **% Overall Passing**: 65.17%

**Conclusion and Comparison**

1. **Impact of Per Student Spending on Performance**:
   * **Schools with lower per student spending** (<$585) tend to have higher average scores and passing rates. For instance, schools spending less than $585 per student have an average math score of 83.46 and an overall passing rate of 90.37%. In contrast, schools with higher spending ranges ($645-680) have lower average math scores (76.99) and overall passing rates (53.53%). This suggests that higher spending does not necessarily correlate with better performance, indicating potential inefficiencies in resource allocation.
2. **Performance by Grade Level**:
   * **Math and reading scores** tend to be consistent across different grade levels within the same school. For example, at Cabrera High School, the average math scores for 9th, 10th, 11th, and 12th grades are 83.09, 83.15, 82.77, and 83.28, respectively. Similarly, the reading scores for these grades are 83.68, 84.25, 83.79, and 84.29, indicating a stable performance across grades. This consistency suggests effective teaching methods and curriculum standards across all grade levels within the school.

In conclusion this data shows the importance of efficient resource allocations and consistent education to achieve high student performance across different schools and grade levels.