**PyCitySchools Analysis Report**

The analysis takes a look at the schools and distinguishes them along three main factors, budget, size and type. The following is a summary of the results for each:

**School Budget:**

The data shows that an increase in budget does not lead to an increase in student performance. The top 5 performing schools show a significant range in budget measured per student, from low to moderately high, while the bottom 5 performing schools all have relatively high per student budget. In fact, when grouped by budget per student, we see a decrease in passing rates and average scores across the board as the per student budget of the schools increase.

**School Size:**

The data shows that smaller sized schools saw better student performance. The top 5 performing schools are all small or medium sized, with one slightly large school, meanwhile all 5 bottom performing schools are large schools. When grouped by size, small and medium schools show very good performance at very similar levels while larger schools show a marked decrease in performance.

**School Type**:

The data shows that charter schools outperform district schools. All top 5 performing school are charter schools and all bottom 5 performing schools are district schools. When grouped by type, charter schools score significantly better on across the board than district schools.

**Other Considerations:**

When examining both reading and math scores by grade, the average scores of students remain consistent across grades at all schools, fluctuating by 1% to 2.2% at most.

**Conclusions**

The analysis shows that increase in school spending does not improve results. There may be a critical size at which a school sacrifices performance as size does not show much of an effect between small and medium schools but a marked effect between medium and larger schools. Further investigation is required to see whether school type has an effect as the difference between district and charter school results could simply be due to size given district schools are large schools. Also, given that student scores remain fairly stable across grades, school may not have a significant effect on student performance. Perhaps certain schools score better simply because they attract the best students. This also requires further investigation.