**PyCity Schools Analysis and Report**

District Summary:

This summary provides data on the school district’s performance. The total schools in the district is 15. The total students is 39,170, and the total budget is $24,649,428. The average math score was 78.99%, and the average reading score was 81.88%. Of those students, 74.98% are passing math, and 85.81% are passing reading. The percentage of students passing both is 65.17%.

School Summary:

This summary provides data on each high school in the district. The data in this summary includes school types, total students per school, total school budget, per student budget, average math score, average reading score, percent passing math, percent passing reading, and overall passing both reading and math percentage.

Highest-Performing Schools (by % Overall Passing):

This data provides us the top 5 schools by overall passing %: Cabrera High School, Thomas High School, Griffin High School, Wilson High School, Pena High School.

Bottom Performing Schools (by % Overall Passing):

This data provides us the bottom 5 schools by overall passing %: Rodriguez High School, Figueroa High School, Huang High School, Hernandez High School, Johnson High School.

Math Scores by Grade:

This data set provides us with the average math scores for 9th, 10th, 11th, and 12th graders for each high school. The highest average for 9th graders was Holden High School, whilst the lowest was Figueroa High School. The highest average for 10th graders was Griffin High School, whilst the lowest was Huang High School. The highest average for 11th graders was Holden High School, whilst the lowest was Rodriguez High School. The highest average for 12th graders was Pena High School, whilst the lowest was Ford High School.

Reading Scores by Grade:

This data set provides us with the average reading scores for 9th, 10th, 11th, and 12th graders for each high school. The highest average for 9th graders was Shelton High School, whilst the lowest was Hernandez High School. The highest average for 10th graders was Thomas High School, whilst the lowest was Rodriguez High School. The highest average for 11th graders was Shelton High School, whilst the lowest was Ford High School. The highest average for 12th graders was Holden High School, whilst the lowest was Huang High School.

Scores by School Spending:

This data set provides us with the scores by school spending. It separates the spending ranges into four categories: <$585, $585-630, $630-645, $645-680. The schools that spend under $585 have the best math, reading, and overall scores, whilst the schools spending in the highest range had the worst of the three.

Scores by School Size:

Each school was divided by its size. The ranges were 0-1000, 1000-2000, 2000-5000. This data shows us that smaller schools had the highest scores grades both in math, reading, and combines. Medium sized schools had the highest overall passing percentage for math, reading, and combined. The large schools had the lowest passing percentage for math, reading, and combined.

Scored by School Type:

Schools were divided into two types, Charter and District, and contained their cumulative average math and reading scores, and percent passing math, reading, and overall. Charter schools had significantly higher numbers.

Conclusions:

When comparing average math scores, average reading scores, percent passing math, percent passing reading, and percent passing overall, Charter schools have far and away higher overall scores and passing percentages for the whole lot. (Except average reading score being only 3 points different, everything else is significantly different)

Schools that spend more money ($645-680) per student tend to have much lower scores than when compared to schools that spend the least (<$585). This can also be simplified, after looking closely at the data, to: Schools overall % passing grades in both math, reading, and combined go down as more money is spent per student.