Analysis

Objective of the Data Scientist is to help school board and mayor make strategic decisions regardng future school budgets and priorities

All school analysis (Government / Independent)

* There are 15 schools analysed in the area. Government schools total 7 and Independent schools total 8
* 0f the total student number of 39,170, 69% are from Government schools and 31% are from Independent schools
* Government schools spend 8% more than Independent schools per student (Governement: $642, Independent: $597)
* Average maths and reading scores for Independent schools are slightly higher than Government schools. (Average maths score 1.6% higher/ Average reading score 1.0% higher)

Analysis of Government schools

* Bailey High School is most populous Government school with 4,976 students
* It also has the least budget spend per student of $628
* Bailey reports the highest average maths and reading grades amogst all Government schools

Analysis of Independent schools

* Wilson High School is most populous Independent school with 2,283 students
* It also has the least budget spend per student of $578
* Wilson High School reports the lowest average maths and reading grades amogst all Independent schools

Analysis across Years 9 to 12

* Average maths scores across all years are higher than average reading scores across years 9 to 12 for both Government and Independent schools
* Amogst Government schools Rodriguez High School shows the most consistent trend on overall pass mark across Years 9 to 12
* Amognst Independent schools ovverall maths and reading passing score seems to be declining in Year 12

Furhter qualitative investigation suggested

* Understand dynamics for Bailey High School wherein with least per student spend and being most populous it is showing highest average scores
* Understand for Independent schools why Year 12 overall passing proportion is shoring a decline compared to other years
* Understand if funding for Wilson school needs to be looked at as it is reporting lowest average reading and maths scores and also has the least spend per student