**Yr 11 Applications Marking Rubric for Investigation 3:**

**“Statistical Investigation Process”**

Student Name:

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| **Criterion** | **A** | **B** | **C** | **D** | **E** | **Marks** |
| **Selected Question for Report** | Student chooses an excellent question that can be easily investigated using 2 data sets  **4 marks** | Student chooses a good question that can be investigated using 2 data sets  **3 marks** | Student chooses a question that is satisfactory but is hard to investigate  **2 marks** | Student chooses a poor question that is hard to investigate  **1 mark** | Student doesn’t choose a question to investigate  **0 marks** |  |
| **Chosen Data Sets** | Student uses the Random Sampler, and have a min of 15 student data matched, with outliers eliminated  **6 marks** | Student uses the Random Sampler to obtain min 15 students per sample, outliers not omitted  **4 – 5 marks** | Student uses the random sampler to select 2 sets of data less then 15  **2 – 3 marks** | Student chooses one set of data only  **1 mark** | Student doesn’t use the random sampler to choose data  **0 marks** |  |
| **Analysis of Data** | Student completes a table of data as per Method 3 with no errors  **14 marks**  **(2 per column)** | Student completes table of data as per Method 3 with no more than 3 errors  **11 – 13 marks**  **(-1 per error)** | Student completes a table of data as per Method 3 with no more than 7 errors  **7 – 10 marks**  **(-1 per error)** | Student doesn’t complete the table of data, sections missing, errors made  **3 – 6 marks**  **(-1 per error)** | Student either doesn’t complete a table of data or makes more than 10 errors  **0 – 3 marks**  **(-1 per error)** |  |
| **Interpretation of Data** | Student answers **all parts** of Method 4, and graphs accurately.  Chooses and explains the right measures  **16 marks**  **(2 per task)** | Student answers **all parts** of Method 4, has errors in graphs, chooses or explains measures incorrectly  **12 – 15 marks**  **(-1 per error)** | Student answers **some parts** of Method 4, has a few errors in graphs, chooses or explains measures wrong  **8 – 11 marks**  **(-1 per error)** | Student answers **a few parts** of Method 4, has a few errors in graphs, chooses or explains measures wrong  **5 – 7 marks**  **(-1 per error)** | Student either doesn’t complete Method 4 or answers incorrectly without facts  **0 – 4 marks**  **(-1 per error)** |  |
| **Statistical Report** | Student presents an accurate report that includes all of the requirements set out in Method 5.  Neatly presented and organised.  **10 marks** | Student presents a good report that includes most of the requirements set out in Method 5.  Neatly presented and organised.  **8 – 9 marks**  **(-1 per error)** | Student presents a satisfactory report that includes some of the requirements set out in Method 5.    **5 – 7 marks**  **(-1 per error)** | Students presented sub standard report that included a few of the requirements set out in Method 5.  **3 – 4 marks**  **(-1 per error)** | Student does not complete a report, or report is very poorly done. Lacks organization and neatness.  **0 – 2 marks**  **(-1 per error)** |  |
| **Conclusion** | Student produces an excellent conclusion based on their statistical investigation.  **5 marks** | Student produces a good conclusion based on their statistical investigation.  **4 marks** | Students produced a satisfactory conclusion loosely based on their statistical investigation  **3 marks** | Students produced a conclusion not backed up fully by their statistical investigation  **2 marks** | Students didn’t produce a conclusion or it wasn’t based on any of their statistical investigation  **0 – 1 mark** |  |