

# Analysis Rubric – MDM4U Final Project

Name:		Project Topic:	
-------	--	----------------	--

- Choose *at least* 3 of the following Analysis clusters.
- These will be added to your data phase spreadsheet, renamed **Analysis\_LastName\_FirstName.xlsx**

The count of the elements which are present and properly used will be used to determine the level.

Analysis Cluster	Charts/Graphs	Formulas	1	2	3	4	4+
Probability	<input type="checkbox"/> Pie Chart <input type="checkbox"/> Pictogram <input type="checkbox"/> 2 <sup>nd</sup> Pie Chart or Pictogram <input type="checkbox"/> 3 <sup>rd</sup> Pie Chart or Pictogram <input type="checkbox"/> Experimental or Theoretical Probability is calculated	<input type="checkbox"/> AND formula used <input type="checkbox"/> OR formula used <input type="checkbox"/> NOT formula used <input type="checkbox"/> COUNTIF formula used <input type="checkbox"/> IF formula used <input type="checkbox"/> SUM formula used	2	3	5	6	7
Venn Diagrams	<input type="checkbox"/> 2 Bubble Venn Diagrams <input type="checkbox"/> 3 Bubble Venn Diagram <input type="checkbox"/> Conditional Probability calculated for analysis <input type="checkbox"/> 2 <sup>nd</sup> Conditional Probability calculated for analysis	<input type="checkbox"/> AND formula used <input type="checkbox"/> OR formula used <input type="checkbox"/> NOT formula used <input type="checkbox"/> COUNTIF formula used <input type="checkbox"/> IF formula used <input type="checkbox"/> SUM formula used	2	3	5	6	7
Counting Principles	<input type="checkbox"/> Permutations <input type="checkbox"/> Combinations <input type="checkbox"/> Counting Principles <input type="checkbox"/> Pictograms <input type="checkbox"/> Pie Charts <input type="checkbox"/> 2 <sup>nd</sup> pie chart or pictogram	<input type="checkbox"/> ^ calculate used <input type="checkbox"/> FACT formula used <input type="checkbox"/> PERMUT formula used <input type="checkbox"/> COMBIN formula used <input type="checkbox"/> Probability calculated <input type="checkbox"/> 2 <sup>nd</sup> probability calculated	1	2	3	4	5
2 Variable	<input type="checkbox"/> Line of Best Fit on Scatterplot <input type="checkbox"/> 2 <sup>nd</sup> Scatterplot created <input type="checkbox"/> 3 <sup>rd</sup> Scatterplot created <input type="checkbox"/> Correlation strength classified	<input type="checkbox"/> Slope formula used <input type="checkbox"/> Intercept Formula used <input type="checkbox"/> Equation found <input type="checkbox"/> Correlation Coefficient <input type="checkbox"/> Coeff. of Determination	2	3	5	7	8
1 Variable (Mean)	<input type="checkbox"/> Histogram created <input type="checkbox"/> 2 <sup>nd</sup> Histogram created <input type="checkbox"/> Pivot Table Chart <input type="checkbox"/> Distribution Classification and terminology used <input type="checkbox"/> Establish Normal Distribution	<input type="checkbox"/> STVDEV.P formula used <input type="checkbox"/> Mean formula used <input type="checkbox"/> Countif formula used <input type="checkbox"/> Norm.dist formula used <input type="checkbox"/> P(x>value) calculated	2	3	5	7	8
1 Variable (Median)	<input type="checkbox"/> Box and Whisker <input type="checkbox"/> 2 <sup>nd</sup> Box and Whisker Used <input type="checkbox"/> Comparative Box and Whisker (2 on one graph) <input type="checkbox"/> IQR Calculated	<input type="checkbox"/> Median formula used <input type="checkbox"/> QUARTILE.EXC for Q1 <input type="checkbox"/> QUARTILE.EXC for Q3 <input type="checkbox"/> Min used <input type="checkbox"/> Max used	2	3	5	7	8
Advanced Concepts (Researched on own)	For example: <input type="checkbox"/> Heat Maps <input type="checkbox"/> Hypergeometric Functions <input type="checkbox"/> Simulation	Levels will be awarded based on the level of difficulty					