


STATISTICAL INVESTIGATION PLANNING FRAME


Name: _____

Date: _____


Investigation topic / question: _____

1 DEFINE THE PROBLEM 	What do I want to find out?	
	Why is this important or interesting?	What do I already know?




2 PLAN THE INVESTIGATION 	Population: <i>Who or what will I investigate?</i>		Variables: <ul style="list-style-type: none"> • What will I measure or observe? • Response / data type: <ul style="list-style-type: none"> <input type="checkbox"/> Categorical <input type="checkbox"/> Quantitative (discrete / continuous)
	Sampling method: <i>How will I select my sample?</i>	Sample size: <i>How many data values will I collect?</i>	Data collection method: <i>How will I collect my data?</i>
	Materials / equipment needed:		




3 ENSURE A FAIR TEST 	What will I keep the same (controls) to ensure a fair test?
	What could affect my results (bias / confounding factors)?




4 COLLECT DATA 	Data recording plan: <i>How will I record my data?</i>	Table format (sketch): <table border="1" style="width: 100%; height: 40px;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																



5 ANALYSE DATA 	How will I analyse my data? <ul style="list-style-type: none"> <input type="checkbox"/> Summary statistics (e.g. mean, median, mode, range, IQR) <input type="checkbox"/> Graphs (e.g. bar chart, histogram, dot plot, box plot, scatter plot) <input type="checkbox"/> Other: _____
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6 CONCLUDE AND REFLECT 	What did I find out? <i>(Answer the question)</i>	What does this mean? <i>(Interpret the results)</i>	Evaluation: <ul style="list-style-type: none"> • What worked well? • What didn't work well? • How could I improve this investigation?
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BEFORE YOU BEGIN, CHECK:

- My question is clear
 My plan is complete
 My test is fair
 I can collect the data
 I can analyse the data