

STATISTICS PROJECT: STATISTICAL INVESTIGATION

Please take important note of descriptions and due dates!

PROPOSAL:

DESCRIPTION	DUE DATE	POINTS
<p>Turn in a typed proposal of your statistical investigation. This needs to be VERY thorough, you need to think about and address any possible bias you may encounter.</p> <p>~What are you going to test and provide your null and alternative hypothesis ~What is your variable of interest ~What will your population be? ~How big will your sample be and how will you select it? ~Will it be observational or experimental? ~Briefly describe what your design will be to collect your data. If observational list questions (you need at least 5) you will ask. If experimental, what is the treatment is and what would your test and control groups be ~How are you going to avoid bias? ~Why does this question interest you</p>	<p>Thursday 10-12</p>	<p>20</p>

REPORT: (all parts of the report should be typed. Each part of the cycle should be on a separate page)

DESCRIPTION	DUE DATE	POINTS
<p><i>The Question Cycle:</i> Answer the following</p> <p>~ What was your question ~What is your population? ~ State the Null and Alternative Hypothesis and your variable of interest ~ Why did you choose to do a statistical study on this question?</p>	<p>Thursday 10-26</p>	<p>10</p>
<p><i>The Design Cycle:</i> Answer the following</p> <p>~Describe your design IN DETAIL; Why did you choose what you did? ~ How big was your sample, what method did you use to select them and why? ~ Was your investigation experimental or observational? IF EXPERIMENTAL ~ What were your treatments? ~ Describe the different groupings (what were your test groups and what was your control group) IF OBSERVATIONAL ~What were your questions (Must have AT LEAST 5!) ~Were your questions open or closed? Why did you choose open or closed?</p>	<p>Thursday 10-26</p>	<p>10</p>
<p><i>The Collect Cycle:</i></p> <p>~ Show all of the data you collected (best format would be some kind of table) ~ Include totals for either each question OR each test group (depending on experimental or observational)</p>	<p>Thursday 10-26</p>	<p>10</p>
<p><i>The Analyze Cycle:</i></p> <p>~ Make two graphs that best show your data (make sure each graph has a title and all axis are correctly labeled. Graphs should be easy to read) ~ For each graph write two sentences that describe what is being shown in the graph</p>	<p>Thursday 10-26</p>	<p>10</p>

