

Statistics Survey Project

(Project is worth 12 points.)

Phase 1: Team members (1-3 people) brainstorm possible survey topics on issues of school interest.

Phase 2: Each team submits a proposal to Mr. Staublin describing: (2pts)

- *Topic/ question of interest
- *Background motivation for selecting this topic/ question
- *Questions to be included in the survey
- *Methodology
 - The type of sampling you intend to use- stratified, cluster, SRS or systematic
 - Precise description of your randomization, including labeling
 - When, where and how you will administer the survey

Phase 3: Select your sample and administer your survey.

Phase 4: Organize, summarize, and analyze your data.

Phase 5: Prepare a written report that documents your survey. Follow these guidelines.

Your written report should include each of the sections described below.

- *Topic/Question- Should be descriptive and eye-catching (1pt)
- *Background- Why did you decide to investigate this topic/question? (1pt)
- *Methodology- This should be clear enough so that anyone who reads your description could replicate the survey effortlessly. (4pt)
 - Describe and defend your chosen sampling procedure.
 - Detail your randomization process.
 - Carefully explain when, where, and how you administered the survey.
 - Provide a copy of your survey.
- *Data- Organize your data in a table. (1pt)
- *Analysis- Include appropriate graphical and numerical summaries- bar graphs, pie charts, counts, proportions, percents. (1pt)
- *Interpretation- Discuss what the data tells you about the topic/question you chose. What generalizations might you draw about the population from which the sample was drawn? (1pt)
- *Pitfalls and extensions- Share any difficulties you experienced during the survey project. What might you do differently if you were to repeat the survey? Are there any possible extensions of this survey project that might prove interesting? (1pt)