**Computer Lab Dates**: Friday February 21st, Monday March 3rd, Wednesday March 5th

Partner 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Pick a Partner and a Topic
* You need a question or problem that interests you and your partner. Statistics is a tool to help you answer a question and you will use statistical summaries to analyze your findings.
* Since this is a school project, topics must be appropriate. Topics that are offensive or inappropriate will not be allowed.
* Develop a hypothesis. What do you think you will find after surveying?
* Create a valid design: WHAT will you ask? WHO will you ask? HOW will you ask them?
1. Project Proposal
* Must **be word-processed** and include the following:
1. Your research question/topic
2. Why is the topic important? What is something that your data can change?
3. List the 10 questions you plan to ask (5 categorical, 5 quantitative)
4. What is your design? WHO will you ask, HOW will you ask them (i.e. Written Survey, Verbal Survey, Facebook/Online survey), WHERE will you ask them?
5. What is everyone’s role? Be very specific!
6. What is your timeline? When will you have each step completed by? (Use the front page for help with dates)

**DUE: Friday February 14th 10 points**

**\* Late proposals will not earn any points.**

**\*You may not start surveying until your project proposal has been approved.**

1. Survey
* Survey at least 40 people
* Be mindful of using the same survey method on all participants to ensure consistency
* Record all results so that you are ready to analyze and graph

**DUE: Friday February 21st**

1. Written Report
* Your written report must be word processed using standard font and double-spaced.
* All charts, data sheets, and graphs should be done on the computer. Graphs and charts should have a title and properly labeled axes. You need graphs in BOTH your written project and on your visual aid.
* Your written report should include the following in the given order:
	1. COVER SHEET—The first page of your project must be a cover sheet that includes your name(s), date, class period and the title of your project.
	2. TABLE OF CONTENTS
	3. INTRODUCTION, PROBLEM, PURPOSE—This section should include the statement of your question and a statement as to why your project is important or relevant. Also discuss what you expected to find.
	4. METHODS AND PROCEDURES—This should include how your data was collected or research that was done to collect your data. Be specific. Remember to document all items that need to be cited.
	5. RESULTS (ANALYSIS OF DATA)—Your data tables and graphs go here, interspersed with your narrative/comments. This is also where you include all statistics (including calculations). Each quantitative question must have a correct **five number summary, mean, standard deviation, median, and range.** Graphs and charts should be inserted into the appropriate location of your paper or referenced by page number if not in the body/text of the paper. I will not look at your visual aid of the project for graphs.
	6. PROBLEMS IN THE PROJECT—This should include any difficulties that occurred when collecting or analyzing data, as well as what you would change in a follow-up to your project. Limitations of your findings should be discussed (was it biased somehow?).
	7. CONCLUSION—This is where you interpret your findings (what can you conclude or not conclude from your research).
	8. DISCUSSION—Suggestions for further work in the area of your topic, as well as recommendations (like what can be done about the problem), are mentioned here.
	9. WORKS CITED—Use the M.L.A. or A.P.A. format if you borrowed **anything**. (This section may not apply if you did not research any items in regards to your project).
	10. APPENDICES—This is where you include your log, raw data (remember to protect subjects’ privacy by NOT including names), a copy of your survey, cover letter, or any other handouts or information you used in your project. Also include hard copies of any information obtained off of the Internet.

**DUE: Monday March 10th – 50 points - Late written reports will be deducted 20% per day (starting with 20% on the first day if turned in later than your period, 40% on the next day, etc.)**

1. Visual Presentation
* Your presentation must be at least 5 minutes in length. Presentations shorter than 5 minutes will be penalized (see rubric for point values of shorter presentations)
* Your presentation must incorporate a visual aid (PowerPoint, Prezi, video, etc)
* All members of your group must ACTIVELY participate in the presentation. Points will be deducted if there is not an equal amount of participation throughout the presentation.
* Your presentation is due at the beginning of class on the day that you are scheduled to present. The best way to make sure that your presentation is on my computer is to e-mail me the file prior to class on the day you are presenting: jynelle.andrejko@dvusd.org
* Visual presentations will be graded on:
	1. Voice Projection and Eye Contact
	2. Visual Aid
	3. Class Interest
	4. Creativity
	5. Group Participation
	6. Time Requirement
* See the attached rubric for a breakdown of the points

**DUE: Monday March 10th, March 11th, or March 12th, (depending on the day you signed up for)**

**40 points – No late presentations accepted**

**Oral Presentation Rubric**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Possible Score** | **5** | **4** | **3** | **2 or 1** | **Group Score** |
| **Voice Projection and Eye Contact*****5 pts.*** | Speaks clearly and distinctly all (100-95%) the time, mispronounces few words, and conveys emotion and character through speech. Plenty of eye contact | Speaks clearly and distinctly all (100-95%) the time, mispronounces few words, group has reasonable amount of eye contact. | Group speaks clearly and distinctly most of the time. Group has only 1-2 instances of eye contact throughout the presentation. | Group often mumbles or can not be understood and makes no eye contact with the audience. |  |
| **Visual Aid*****15 pts.*** | The visual aid is easy to read, organized, and *all* material presented is relevant to the presentation. Great use of color, pictures, and text. | The visual aid is for the most part, neat, and relatively organized. Color and pictures are good. | The clarity and readability of the visual aid is average. It may be lacking in color, pictures, or have too much text.  | The visual aid is unorganized, unreadable, and is lacking in appearance. Little to no color or pictures; too much text. |  |
| **Class Interest*****5 pts.*** | The class’ interest is evident in their reaction to the content – the groups’ presentation is engaging and provokes a positive reaction. Most students are paying attention. | Class remains positive but does not pay much attention. Very few are not as engaged and actively participating in the presentation. Most are paying attention. | Class reaction to the presentation is mixed, and as many seem interested in the presentation as uninterested. Half are paying attention and half are not. | The majority of the class is not paying attention and is outwardly uninterested in the presentation. The vast majority is not engaged. |  |
| **Creativity*****5 pts.*** | The group presents ideas and techniques which are unique and very unorthodox, which enhance the project. The project is filled with super creative ideas! ☺  | The group has presented somewhat unique ideas and adopted an approach which is, overall, very creative. | The group’s ideas and presentation are average and do not show a creative side that went above and beyond with presenting. | The group’s presentation lacks any unique ideas and is unimpressive in terms of creativity. |  |
| **Group Participation*****5 pts.*** | All group members share equally in the presentation, and support each other’s statements in a professional manner.  | All group members participate equally in the presentation.  | One or two group members are doing most of the presentation with only occasional support from their group members.  | One or two group members do the entire presentation with no assistance from other group members.  |  |
| **Time Requirement*****5 pts.******\*Note: You cannot receive a 4 or 5 in any other category without at least a 4 in this one!!*** | The presentation meets the 5 minute requirement and is either 5 minutes or more in length.  | The presentation falls :01-:30 seconds below the time requirement. Length is between 4:59 and 4:30) | The presentation falls :31-1:00 seconds below the time requirement. Length is between 4:29 and 4:00) | The presentation falls 1:01 or more below the time requirement.  |  |
| **Total:** |  |  |  |  |  |

Topic: Names:

**Statistics Final Project**

**TOTAL Letter Grade \_\_\_\_\_\_% = \_\_\_\_\_**

**Proposal (10) \_\_\_\_\_\_\_**

**Written Project (50) \_\_\_\_\_\_\_**

statistical content

originality

organization—overall flow

format:

cover sheet

table of contents (pages numbered)

introduction, problem, purpose

methods and procedures

results (analysis of data)

statistics

graphs

problems

conclusion

discussion—further work?

Work(s) cited if needed

appendices

 partner evaluation

raw data

sample survey/letter/etc.

any Internet research

other

neatness - overall appearance

spelling

grammar

**Oral Presentation (40)** \_\_\_\_

voice projection/eye contact (5)

visual aid—clarity, readability, appearance, relevance (15)

class interest (5)

creativity (5)

group participation—flow (5)

time—5 minutes (5)

**Grand Total (100)** \_\_\_\_