

# Statistics Presentation Checklist

Quarter 1 (Solo)

Name: \_\_\_\_\_

Points: \_\_\_\_\_ out of 20

## Part 1 – Setup

### Criteria

- Describe the goals of the study
- Who are the researchers? What is the source?
- What tone did the authors take in describing the study?
- Who were the subjects (randomly sampled or volunteers?)
- What was the sample size?

Comments

## Part 2 – Statistical Analysis

### Criteria

- What statistics were described (or extras you found)?
- What are the implications for the statistics?
- Was a linear regression performed? Describe variables.
- Was a linear regression performed? Describe correlation.

## Part 3 – Graphical Analysis

### Criteria

- Show graphs that help illustrate the findings – graph 1
- Show graphs that help illustrate the findings – graph 2
- Show graphs that help illustrate the findings – graph 3

## Part 4 – Make the research relevant

### Criteria

- Collect data that connects the research to the opinions present in our class.
- Show statistics for our class. Compare to the research.

## Part 5 – Alternate Viewpoints

### Criteria

- Find research that contradicts the findings in your study.
- Describe criticism or limitations to the conclusions in your research. Any claims of bias?
- Describe your opinion of the truth. Do you believe the findings are accurate? Did it conform to your world view?

## Part 6 – Overall Quality

### Criteria

- You should be well prepared on the assigned date.
- You should attempt to be interesting and confident.
- You should be able to effectively answer questions.
- Tell us a story about the article.
- Make it relatable to the students.
- How would you improve the research or reporting of the research? How would you conduct a similar study at our school?

# Statistics Presentation Checklist

Quarter 2 (Solo)

Name: \_\_\_\_\_

Points: \_\_\_\_\_ out of 20

## Part 1 – Setup

### Criteria

Comments

- Describe the goals of the study What is the source?
- Was this an experiment or observational study
- How was data collected? (Systematic, Convenience, SRS)
- Who were the subjects (randomly sampled or volunteers?)
- Describe the sample size and replication.
- Did the study design use blocking, matched pairs, clustering, stratification.

## Part 2 – Statistical Analysis

### Criteria

- What statistics were described (or extras you found)?
- What are the implications for the statistics?
- Was a linear regression performed? Describe variables.
- Was a linear regression performed? Describe correlation.

## Part 3 – Graphical Analysis

### Criteria

- Show graphs that help illustrate the findings – graph 1
- Show graphs that help illustrate the findings – graph 2
- Show graphs that help illustrate the findings – graph 3

## Part 4 – Make the research relevant

### Criteria

- Collect data that connects the research to the opinions present in our class.
- Show statistics for our class. Compare to the research.

## Part 5 – Alternate Viewpoints

### Criteria

- Find research that contradicts the findings in your study.
- Describe criticism or limitations to the conclusions in your research. Any claims of bias?
- Describe your opinion of the truth. Do you believe the findings are accurate? Did it conform to your world view?

## Part 6 – Overall Quality

### Criteria

- You should be well prepared on the assigned date.
- You should attempt to be interesting and confident.
- You should be able to effectively answer questions.
- Tell us a story about the article.
- Make it relatable to the students.
- How would you improve the research or reporting of the research? How would you conduct a similar study at our school?

# Statistics Presentation Checklist

Quarter 3 (Pairs)

Names: \_\_\_\_\_

Points: \_\_\_\_\_ out of 20

## Part 1 – Setup

### Criteria

Comments

- Describe the goals of the study What is the source?
- Was this an experiment or observational study
- How was data collected? (Systematic, Convenience, SRS)
- Who were the subjects (randomly sampled or volunteers?)
- Describe the sample size and replication.
- Did the study design use blocking, matched pairs, clustering, stratification.

## Part 2 – Statistical Analysis

### Criteria

- What statistics were described (or extras you found)?
- What are the implications for the statistics?
- Was a confidence interval described? Explain.
- Was a hypothesis test described? Explain.
- Were the results considered significant? Describe.

## Part 3 – Graphical Analysis

### Criteria

- Show graphs that help illustrate the findings – graph 1
- Show graphs that help illustrate the findings – graph 2
- Show graphs that help illustrate the findings – graph 3

## Part 4 – Make the research relevant

### Criteria

- Collect data that connects the research to the opinions present in our class.
- Show statistics for our class. Compare to the research.

## Part 5 – Alternate Viewpoints

### Criteria

- Find research that contradicts the findings in your study.
- Describe criticism or limitations to the conclusions in your research. Any claims of bias?
- Describe your opinion of the truth. Do you believe the findings are accurate? Did it conform to your world view?

## Part 6 – Overall Quality

### Criteria

- You should be well prepared on the assigned date.
- You should attempt to be interesting and confident.
- You should be able to effectively answer questions.
- Tell us a story about the article.
- Make it relatable to the students.
- How would you improve the research or reporting of the research? How would you conduct a similar study at our school?

# Statistics Presentation Checklist

# Quarter 4 (Debate)

Topic: \_\_\_\_\_

Team 1: \_\_\_\_\_ Team 2: \_\_\_\_\_

Position: \_\_\_\_\_ Position: \_\_\_\_\_

Points: \_\_\_\_\_ out of 20 Points: \_\_\_\_\_ out of 20

Opening question for the class: \_\_\_\_\_

The opening question checks the opinion of the class about your topic. The statistic measured should show if the class is on the side of team 1 or team 2. Both teams agree to this question.

## Part 1 – Make the research relevant

### Criteria

- Collect data that connects the research to the opinions present in our class.

### Comments

## Part 2 – Opening Team (4 minutes)

### Criteria

- Describe your position.
- Describe the research you found that backs up your position.
- Describe your source, authors, and methods.
- Show graphs that back up your position. (No videos)
- Refer to the statistics for our class. Compare to the research.
- Describe your opinion of the truth. Do you believe the findings are accurate? Did it conform to your world view?

## Part 3 – Second Team (5 minutes)

### Criteria

- Describe your position.
- Describe the research you found that backs up your position.
- Describe your source, authors, and methods.
- Show graphs that back up your position. (No videos)
- Refer to the statistics for our class. Compare to the research.
- Describe your opinion of the truth. Do you believe the findings are accurate? Did it conform to your world view?
- Refute the research of the opening team with statistics, data, and graphs.

## Part 4 – Opening Team's Rebuttal

### Criteria

- Refute the research of the opening team with statistics, data, and graphs.

## Part 5 – The winner is...

Repeat the opening question and find the statistic. The team who influenced to most people wins.

### Criteria

- Extra point to the winning team.