

WPHS Science Research Program

Q4 Presentations JUNIORS

SWBAT: Present their research progress and plans to the class in a previously recorded PowerPoint presentation

DUE DATE: Friday June 4, 2021

Counted as a class presentation assignment (100 points).

Summary of assignment: Juniors should present a PowerPoint presentation of their research progress & plans. If a student does not have data/results to share at this time, it is required that “related results” from a similar study be presented instead. The presentation should be between 5-8 minutes but CAN NOT exceed 12 minutes.

Guidelines for the PowerPoint: (approximately 10 slides)

See rubric attached to determine how grading will be determined.

PowerPoint MUST have the following (80 points):

- 1) Title slide with your name and the title of your study
- 2) A “hook” (a statement, question or visual to grab the audience’s attention). 6 points
- 3) An Introduction slide (or 2) that includes background information about the topic to help the audience understand the problem/goals. It must also include visuals that directly inform the audience about the topic. 8 points
- 4) A “Review of Literature” slide(s) that must include the following: 10 points
 - a. References to at least 3 other studies
 - b. Information from the articles support the goals of your research and present a “gap” in the literature
 - c. Articles must be published within the last 10 years.
 - d. Article information does not need to be presented all on one slide, they can be scattered throughout the presentation.
- 5) Purpose of Study slide that clearly addresses the problem, goals, and/or hypothesis of the study. 8 points
- 6) Methodology Slide(s) that must include the following: 10 points
 - a. Clear explanation about the materials and methods used in the study
 - b. Methods must address the problem or hypothesis and result in appropriate data
 - c. Methods must be explained in enough detail to be reproducible
- 7) Data & Results Slide(s) that must include the following: 10 points
 - a. Descriptions & examples of data collected in the study (or related study)
 - b. Adequate & understandable visuals such as graphs and tables (interpreted clearly)
 - c. Type of data collected is related to the goals or hypothesis of the study
- 8) Analysis Slide(s) that must include mention of how the data was analyzed and interpreted and the statistics that were used (if applicable). 8 points.
- 9) Discussion & Conclusion Slide(s) that must include the following: 10 points
 - a. Clear summary of findings of the study

- b. Refers to the original goals or hypothesis and mentions if they are supported
- c. Mentions sources of error, if applicable
- d. Explanations about the applications of the study
- e. Mentions future research possibilities

10) References & Citations Slide(s) that must include the following: 10 points

- a. Articles listed correlate with the articles reviewed in the presentation
- b. List is alphabetical by author's last name
- c. References are in a consistent format (APA preferred)

Please check that your PowerPoint has the following "Thematic Elements" (10 points):

- 1) Proper grammar and spelling
- 2) Text & content that are easy to read without being too wordy (5 x 5 rule)
- 3) Appropriate visuals with descriptions (captions) and citations

Verbal Presentation MUST have the following (10 points):

- ~~1) Good eye contact & body language~~
- 2) Formal & scientific language
- 3) Clear voice & volume
- 4) Minimal verbal tics or distracting language
- 5) Clear opening & closing (such as a "thank you for listening", etc.)