

Rubric for Physics Presentation

I. Content (100)

Title, date____/5 - title should be descriptive of project, contains research question

Purpose____/5 – clearly stated research question and hypothesis

Background info ____/20

Contains physics theory and information relevant to your project, **MUST** include diagram, also equations where appropriate.

Procedure____/15

Clearly written outline. Diagram and photos encouraged; must include at least one photo depicting YOU and your apparatus.

Results, data display ____/25

Complete – data tables, graphs if appropriate. See comment in following section re. graphs

Units, titles, axis labels present

Well-organized

Sample calculations if appropriate. One of each type present, Not repetitive.

Includes titles and units.

Analysis and Discussion____/30 This is the most important part!

Experiment effectively fulfills the stated purpose.

Conclusion stated – Clearly say what you learned. Refer back to your

hypothesis. EXPLAIN the significance of your results.

If your results include a graph, discuss what the graph shows about the proportionality of the variable - linear? Inverse? Linearize graph if possible.

Back up proportionality with a "known" equation if possible. (ie, $v = f\lambda$)

MORE ON BACK

Sources of error / variability mentioned – be SPECIFIC. How exactly would those errors affect your results? Higher values? Lower? This is NOT a "laundry list" of possibilities, but rather a THOUGHTFUL analysis of your experimental method

Clear, logical order

Significance of findings? How do they apply to the "real world"?

II. Visual display _____/15

Clear, easy to read – Be sure your text is legible when projected. Do not use dark colors for background. Do not use excessively "busy" backgrounds.

Be sure text is large enough to read from a distance.

Not too much info on one slide.

Visually appealing, items organized logically and clearly

Pictures have been reduced to appropriate size - KB, not MB.

See presentation handout for other tips.

III. Speaking _____/15

Presentation falls within time limits – Late penalty up to 10 points / minute

Presentation is clear, not too much fumbling / hesitation

Student interacts with audience, refers to visual aid without reading it.

Student is familiar with the topic

Student is able to answer questions – knows their stuff.