

Criteria for Scientific Pathway Project
SCI 465 – Fall 2014

The last page of this document contains the grading rubric for this project.

Choose any biography of a scientist born before 1925. Post your choice on **Blackboard Forum by September 26**. You cannot use the same book as a classmate. Post early so that you can get your first choice! You may not change your book choice after 9/26 so choose carefully before posting. You are responsible for verifying that no one else has already posted the book that you want to use.

Three page (not including the Title page, or References) **paper** about your scientist's pathway to discovery and contribution to science due **October 17** (October 10 is deadline for early feedback) 1 inch margins, double space, 11 – 12 pt font.

1. Must include a **“discussion” on the “pathway” taken by the scientist(s)** to their scientific discovery(ies). *How did this person(s) think scientifically?* Make specific connections with the pathways described in Chapter 1 of the Derry text (example, “Derry, pg 21”)
2. Contribution to Science – NOT on the scientist (use Hazen and Trefil if possible).
 - a. What was known about the topic before?
 - b. What did your scientist contribute?
 - c. Why was this an improvement to what was previously known?
3. Reference all resources. Please provide references using APA style.
<http://www.ccc.commnet.edu/library/apa/index.htm>
4. Your opinion about the book, on
 - Readability of the text
 - Recommendation for others to read
 - Usefulness of the text in your own teaching
 - Appropriateness for SCI 465

Poster presentations 10/20 or 10/22

Poster Reviews (at least 6) Reviewing other student's work is the hardest part of this assignment. We have a detailed rubric that was created by a previous Sci 465 class that we use. You must grade fairly and accurately without allowing your emotions to obscure your objectivity. The course average grade is around 78 -80% so it would be completely unreasonable to expect your 6 poster reviews to average over 90%. Your reviews are completely anonymous so there is no concern with your fellow student's view of you personally. Your critical feedback will help them learn.

Evaluator Name: _____ Presenter Name: _____
Book Title: _____ Scientist: _____

I. Poster (grade **BEFORE** listening to presentation)

a. Presentation of Content

- i. 24 pt font or larger (Key point/outline format) (0-2) _____
- ii. Content clearly labeled (0-2) _____
- iii. Neatness (0-2) _____
- iv. Connected Graphic (0-2) _____
- v. Visually appealing (0-1) _____
- vi. Easy to follow (0-2) _____
- vii. Title/Name of Scientist/Name of Presentor (0-1) _____

b. Suitable Content

Pathway

- i. Identify 1 of the 5 Derry pathways (0-3) _____
- ii. Outline example of scientists' work that fits pathway (0-3) _____
- iii. Example and pathway match (i and ii above) (0-3) _____

Contribution to Science (key points/outline format)

- iv. Before the discovery, what scientists knew on the topic (0-3) _____
- v. What was the scientific discovery/contribution (0-3) _____
- vi. Why was this is an improvement over previous knowledge? (0-3) _____

Comments (provide feedback to the presenter about weaknesses):

II. Oral presentation

a. Content - Explain poster more in depth:

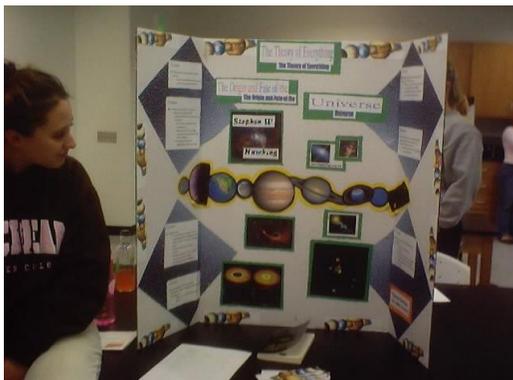
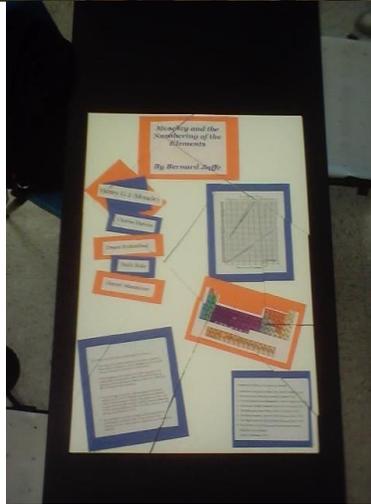
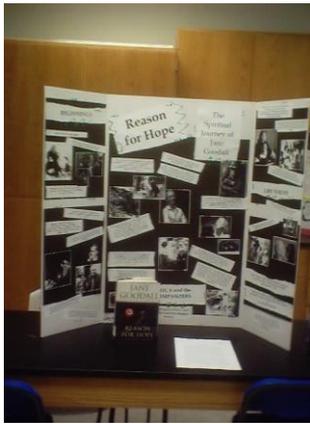
- i. Pathway followed by the scientist (0-3) _____
- ii. Does the pathway match the Derry pathway named? (0-1) _____
- iii. Science before discovery (0-2) _____
- iv. What was the contribution to science (0-3) _____
- v. Why this was an improvement (0-2) _____

b. Presentation

- i. Clear well organized presentation (0-3) _____
- ii. Consistent information presented (0-2) _____
- iii. Confidence/Poise/Presentation (0-2) _____
- iv. Answered questions knowledgeably (0-2) _____

Total _____

Comments:



Scientific Pathway Project

NAME _____

BOOK _____ Scientist: _____

1. Posted book on Blackboard by deadline (2pts) _____
2. Three page paper (not including the Title or references pages) (4pts) _____
3. Paper mechanics (spelling, punctuation, grammar, etc.) (5pts) _____
4. A "discussion" on the "pathway" (see Derry) taken by the scientist(s). (10pts) _____
5. Contribution to science (10pts) _____
6. Opinion about the book, on (5pts) _____
 Readability of the text _____, Recommendation for others to read _____,
 Usefulness in your own teaching _____, Appropriateness for SCI 465 _____
7. References – APA style (4 pts) _____
8. Poster Reviews (40pts) _____
9. Critical poster reviews of at least 6 other students (20pts) _____

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