

**Biology I Honors  
Research Project: Choice #1  
Female/Non-European Descent STEM Professional**

Overall Directions

1. Choose a noteworthy scientist, engineer, mathematician, medical professional, explorer, or technology professional who is a woman and/or of non-European descent to research.
2. Prepare a tri-fold display that presents what you learned.
3. This project will count for half of your semester exam grade
  - Required of honors biology students.
  - Optional for non-honors biology students.
4. This is an individual assignment.
5. Evidence of plagiarism (any copying of text longer than a short phrase or copying short phrases without quotations) will result in a score of zero and possibly additional disciplinary action.

Specifics

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| <ul style="list-style-type: none"><li><input type="checkbox"/> Biographical Information (2-4 paragraphs):<ul style="list-style-type: none"><li>○ Full name</li><li>○ Years alive</li><li>○ Place of birth</li><li>○ Education (degrees, schools, etc.)</li><li>○ Field of study</li><li>○ Childhood: at least two facts</li><li>○ Adult life: at least two facts</li></ul></li><li><input type="checkbox"/> Reason for Fame (2-4 paragraphs)<ul style="list-style-type: none"><li>○ Detailed description of what the scientist is most famous for.</li><li>○ Years it occurred and the country where it happened.</li><li>○ In-depth explanation for how it impacted society.</li></ul></li><li><input type="checkbox"/> Writing Style<ul style="list-style-type: none"><li>○ Paragraph form</li><li>○ Complete sentences</li><li>○ No grammatical or spelling errors</li></ul></li><li><input type="checkbox"/> Visuals<ul style="list-style-type: none"><li>○ Picture of your scientist.</li><li>○ Pictures, graphics, or illustrations of what your scientist is famous for.</li><li>○ Only relevant images (no distracting or random images).</li></ul></li></ul> | <ul style="list-style-type: none"><li><input type="checkbox"/> Format<ul style="list-style-type: none"><li>○ Title and your name are present</li><li>○ All writing is typed:<ul style="list-style-type: none"><li>▪ Arial or Times-New Roman Font</li><li>▪ Main text font 24-36</li><li>▪ Header text font 36-48</li></ul></li><li>○ Organized, with clear headers</li><li>○ Attractive and neat:<ul style="list-style-type: none"><li>▪ Edges are straight, level, and clean (not jagged or crooked)</li><li>▪ Tape or glue is used cleanly</li><li>▪ Elements are arranged evenly (no huge areas of blank space)</li></ul></li></ul></li><li><input type="checkbox"/> Citations<ul style="list-style-type: none"><li>○ Published by a trustworthy organization<ul style="list-style-type: none"><li>▪ Domain names such as .gov or .edu <u>or</u></li><li>▪ Well-known/respected/unbiased .com or .org website</li></ul></li><li>○ At least 2 sources of information</li><li>○ Reported using MLA or APA format (not just copying a website url)</li></ul></li></ul> |
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This project is due  
**Tuesday, January 22-23, 2018**

See reverse side for rubric and scoring  
guide.



## Rubric

	0	2	4	6	8
Biographical Information (20%)	None	1/7 pieces of info (see above) or major errors	3/7 pieces of info (see above) or minor errors	5/7 pieces of info (see above) and no errors	7/7 pieces of info (see above) and no errors
Reason for Fame (20%)	None	1/3 pieces of info included (see above), major errors, and missing major description or explanation details	2/3 pieces of info included (see above), moderate errors, and missing moderate description or explanation details	3/3 pieces of info included (see above), minor errors, and missing minor description or explanation details	3/3 pieces of info included (see above), no errors, and sufficient description and explanation of impact
Writing Style (20%)	None	Writing is not in paragraph form or in complete sentences	Paragraph form and complete sentences, but major mechanical errors	Paragraph form and complete sentences, but minor mechanical errors	3/3 elements listed (see above)
Visuals (10%)	None	1/3 elements listed (see above), 1 image	1/3 elements listed (see above), 2 images	2/3 elements listed (see above), 3 images	3/3 elements listed (see above), at least 4 images
Format (20%)	Cannot be displayed due to poor quality	1/4 elements listed (see above), poster is not attractive and looks poorly done	2/4 elements listed (see above), poster quality is lacking in several areas but is not embarrassing	3/4 elements listed (see above), display is well done with a few unattractive details	4/4 elements listed (see above), display appears professionally done with care
Citations (10%)	No citations	1 citation, not credible <u>or</u> not reported in appropriate format	1 credible citation, reported in MLA or APA format	2 sources, but only 1 is credible <u>or</u> not reported in appropriate format	2 credible sources, reported in MLA or APA format

## Scoring

- Biographical Information \_\_\_\_\_ /8 x 20 = \_\_\_\_\_
- Reason for Fame \_\_\_\_\_ /8 x 20 = \_\_\_\_\_
- Writing Style \_\_\_\_\_ /8 x 20 = \_\_\_\_\_
- Visuals \_\_\_\_\_ /8 x 10 = \_\_\_\_\_
- Format \_\_\_\_\_ /8 x 20 = \_\_\_\_\_
- Citations \_\_\_\_\_ /8 x 10 = \_\_\_\_\_

Total \_\_\_\_\_

## \*Explanation of Impact on Grade and Honors Requirement

- The “honors” designation in a high school course entitles the student to a 1.0 GPA addition because the designation implies an increased level of rigor. Therefore, it is appropriate to ask honors students to complete additional assignments or perform at higher standards beyond the baseline requirements of the general biology course.
- By making this assignment worth half of the semester exam grade, it essentially accounts for 5% of the final grade in the course. Honors students will have an extra assignment for their final exam grade that will be weighted in the same way, so the combined honors assignments account for 10% of their grade. If honors students do not complete the honors assignments, their final exam grade will drop by 10%, essentially dropping their final grade by 1 letter, and thus negate the 1.0 GPA addition.
- If any honors student does not wish to complete these extra requirements, he/she may settle for a lower final grade, or have the counselor remove his/her honors designation for the course.
- Any “non-honors” student has the option of completing this project. This will reduce the weight of their semester exam on their overall grade from 10% to 5%.