**Biology 12 - Genetic Disorder Research Project - / Teacher: Elaine Levesque-Godin**

**DUE: DECEMBER 21, 2018 TOTAL VALUE: 60**

**APA Project Outline and RUBRIC:**

1. *MANDATORY - Utilize APA format for the research paper (see rubric attached).* – 4 pts

General Format - **General APA Guidelines**

Your essay should be typed, double-spaced on standard-sized paper (8.5" x 11") with 1" margins on all sides. You should use a clear font that is highly readable. APA recommends using 12 pt. Times New Roman font.

Include a **page header** (also known as the "**running head**") at the top of every page. To create a **page header/running head**, insert page numbers flush right. Then type "TITLE OF YOUR PAPER" in the header flush left using all capital letters. The **running head** is a shortened version of your paper's title and cannot exceed 50 characters including spacing and punctuation.

1. *Title page (APA format)* - includes the title, name, school name centered and double-spaced (please also include course number and title, date and instructor's name) – 4 pts
2. *Abstract – brief summary of paper (see rubric) –* 4 pts
3. *Introduction (see rubric)* – 4 pts
4. *Body* - include/elaborate the following information:
5. Identify *symptoms of genetic disorder* – 6 pts
6. *Identify at least 4 major categories of detailed accurate information regarding facts about the genetic order from the following:* – 12 pts

Genetic cause, prevention, medical or other forms of treatment available, daily struggles of person living with the disorder, lifespan (reduced, average or estimated lifespan, prognosis), dominant or recessive disorder, how the disorder is passed from one generation to the next {Punnett Square or Pedigree Chart}, etc.).

1. *Provide statistics* (within Canada if possible) – 5 pts

Example: males vs females with disorder, where (where genetic disorder most prevalent, genetic counseling, support or advocacy groups, etc.)

1. At *least two illustrations* of the disorder: graphics, charts (growth charts, etc.), karyotypes, or photos of those with the genetic disorder (if visible disorder). – 5 pts
2. *Conclusion (see rubric)* – 4 pts
3. *Organization of paper (see rubric)* – 4 pts
4. *References & Citations – References on separate page (you must indicate where you obtained the information/graphics, etc.* *(no less than 4 credible sources, and* *you must use at least one web site with* ***.edu*** *and one with* ***.org*** *extensions*).
5. *Style (see rubric)* – 4 pts
6. *Writing Mechanics – (standard grammar, spelling, punctuations, and usage)* – 4 pts
* *Suggestion*: interview with someone with genetic disorder.
* *Assignment Submission – provide an electronic copy (in teacher’s drop box or email to:* *elaine.levesque-godin@nbed.nb.ca* *) and a paper copy on due date.*
* Discussion with teacher – PRICELESS!

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**Guidelines**

American Psychological Association (APA) style is an academic format used largely but not exclusively in the social and behavioral sciences for improved clarity of communication. The Online Writing Lab (OWL) of Purdue University (<https://owl.english.purdue.edu/owl/>) is a good source of information on APA style. And NoodleTools Express (<http://www.noodletools.com/login.php>) is a useful bibliographic citation generator that includes APA style for preparing literature cited lists and parenthetical citations.

**APA Research Paper Template** (available from your instructor's teacher page or download at the link indicated above, Purdue Owl)

This template contains the basic elements and formatting of an APA research paper and may be used to prepare your own research paper. Instructions are included in the template.

**APA Research Paper Example** (available from your instructor's teacher page & copy in class)

This example APA research paper ("Varying Definitions of Online Communication and Their Effects on Relationship Research" by Elizabeth L. Angeli) contains all the elements and formatting typical of APA research papers as well as marginal notes to explain various elements.

**APA Research Paper Rubric** (included in this document)

This rubric (see the following page) is a guide for how to successfully complete an APA research paper at the highest level of completion and success.

|  |  |
| --- | --- |
| ***Presentation: Length, Content, Organization, etc.*** | **Level of Proficiency** |
| **Criteria** | **Exemplary** | **Accomplished** | **Developing** | **Beginning** |
| **APA Format** | \_\_\_ Entire paper is double-spaced with 1" margins\_\_\_ 12 pt font, New Times Roman\_\_\_ Correct running head (header) with pagination\_\_\_ Title, name, school name centered and double-spaced (please also include course number and title, date and instructor's name)\_\_\_ Length sufficient to properly develop written communication with respect to the main idea, subtopics, etc. (ca. 8-10 or perhaps a few more pages) | \_\_\_ Adheres to APA format but lacks 1-2 elements | \_\_\_ Adheres to a smaller number APA elements | \_\_\_ Does not adhere APA elements |
| **Title Page** | \_\_\_ \*\*\*Paper is submitted in electronic format (MS Word) & hard copy\_\_\_ Electronic file & hard copy has correct file name protocol | \_\_\_ Paper is submitted in electronic format (MS Word) only | \_\_\_ Paper is submitted in incorrect electronic format only | \_\_\_ Paper is neither submitted in correct electronic format or with correct file name |
| **Abstract** | \_\_\_ Provides complete overview of paper (75-100, or up to 150-200 words)\_\_\_ Block style with no paragraphs, text flush left | \_\_\_ Provides incomplete overview of paper (and significantly less or more than 150-200 words)\_\_\_ Incorrect style | \_\_\_ Abstract present but incomplete, unclear or otherwise minimally acceptable | \_\_\_ No abstract |
| **Introduction** | \_\_\_ Approximately one paragraph, addressing the topic and a main idea\_\_\_ Includes thesis statement | \_\_\_ Of variable length, identifying a topic\_\_\_ Includes thesis statement that may not comprise a topic and an assertion | \_\_\_ Introduction present but incomplete, unclear or otherwise minimally acceptable | \_\_\_ No introduction |
| **Body** | \_\_\_ Generally of three elements (of from one to several paragraphs each)\_\_\_ Each element supports and develops the main idea (subpoints)\_\_\_ Each paragraph contains a clear topic sentence (and also logically leads to the next paragraph) | \_\_\_ Less than three elements (of from one to several paragraphs each)\_\_\_ Not all elements support and develop the main idea\_\_\_ Not all paragraphs contain a clear topic sentence (and also logically leads to the next paragraph) | \_\_\_Body present but significantly incomplete, unclear or otherwise minimally acceptable | \_\_\_ No body |
| **Conclusion** | \_\_\_ Typically one paragraph (or may be more)\_\_\_ Summarizes the body and concludes the paper\_\_\_ Contains restatement of the main idea (or thesis statement), summarize subpoints and leaves the reader with an interesting final impression | \_\_\_ Less than one paragraph\_\_\_ Summarizes the body incompletely with weak conclusion\_\_\_ Contains less than the following: restatement of the main idea (or thesis statement), summarize subpoints and leaves the reader with an interesting final impression | \_\_\_Conclusion present but significantly incomplete, unclear or otherwise minimally acceptable | \_\_\_ No conclusion |
| **Other Considerations** |  \_\_\_ Contains factual support for the purpose\_\_\_ Avoids ambiguity in discussion of methods, results or interpretations\_\_\_ Is clear and concise\_\_\_ Is developed logically\_\_\_ Main points are emphasized and auxiliary or background information is kept in proper perspective | \_\_\_ Relatively complete but does not address all points indicated in the presentation guidelines | \_\_\_ Incomplete, unclear or otherwise minimally acceptable | \_\_\_ Fully lacking in all aspects |
| **References & Citations** | \_\_\_ References on separate titled page (centered)\_\_\_ In correct APA format (all information included and appropriate for type of source)\_\_\_ Listed alphabetically\_\_\_ Hanging indent\_\_\_ Minimum of four credible, accurate and appropriate sources\_\_\_ Each source is cited at least once and all cited sources are included in references\_\_\_ All citations complete and correctly applied | \_\_\_ References on separate titled page (centered)\_\_\_ Not all in correct APA format (all information included and appropriate for type of source)\_\_\_ Less than the following (listed alphabetically; hanging indent; minimum of four credible, accurate and appropriate sources; each source is cited at least once and all cited sources are included in references, citations complete and correct) | \_\_\_References present but significantly incomplete, unclear or otherwise minimally acceptable | \_\_\_ No references |
| **Style** | \_\_\_ Academically appropriate (formal without being "wordy" or involving affectation (unnatural or artificial expression meant simply to impress)\_\_\_ Free of slang, contractions, personal pronouns, "you"\_\_\_ Variety of sentence structures\_\_\_ Fluency of expression in writing | \_\_\_ Generally academically appropriate as described | \_\_\_ Minimally academically appropriate as described | \_\_\_ Not academically appropriate |
| **Writing Mechanics (standard grammar, spelling, punctuation, and usage)** | \_\_\_ Assignment is at least checked using word processing spelling and grammar tools\_\_\_ Assignment is also checked visually for errors not detected electronically\_\_\_ Syntax, grammar, spelling, punctuation, usage, mechanics, organization, and clarity are at the highest level | \_\_\_ Assignment is at least checked using word processing spelling and grammar tools\_\_\_ Few to several issues with writing mechanics | \_\_\_ Assignment shows evidence of minimal review for spelling and grammar errors\_\_\_ Multiple issues with writing mechanics | \_\_\_ Multiple issues with writing mechanics and no evidence of review |