**District Scientific Research Paper Guidelines**

**2014-2015**

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**Timeline**

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| **Nine Weeks** | **Process** |
| 1st | Topic Selection ***due A day: 9/15, B day: 9/16***  Researching; Introduction and Thesis Statement |
| 2nd | 1st Draft - 3 Body Paragraph – 500 Words or more (Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) |
| 3rd | 2nd Draft – Peer Review: Revising and Editing (Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) |
| 4th | Final Draft – Revising and Editing |

Final Draft Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\*Alternative Product** – teacher’s discretion

**Topics to choose from below**

***(if there is an alternative topic you would like to do teacher permission required)***

***Due🡪 A day: 9/15; B day: 9/16***

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| **Medical Issues:**   * nanotechnology * childhood obesity * childhood/adolescent diabetes * GMO's (genetically modified organisms) * Stem Cell Research * Drug Testing * Vaccines (childhood, newborn) * Chimara (DNA)   **Disease:**   * choose a specific bacteria or virus * choose a specific outbreak (ex. Ebola, West Nile) * antibiotic resistance   **Careers:**   * Choose any career related to STEM (science technology engineering and mathematics)   **Scientist:**   * Choose a specific scientist to research and their discoveries  Examples: Neil de Grasse Tyson, Bill Nye, Rosalind Franklin, Francis Crick, James Watson, Galileo Galilei, etc… **Cellular Processes:**   * Photosynthesis * Cellular Respiration * Protein Synthesis * Mitosis * Meiosis   **Cells:**   * Choose a cellular organelle * Prokaryotes * Eukaryotes | **Cancer:**   * choose a specific type   **Environmental Issues:**   * global warming/greenhouse effect * pollution (air, water, land) * endangered species * composting * alternative forms of energy   **Genetics:**   * DNA (ie. structure, discovery, use in body) * RNA (ie. structure, discovery, use in body) * Genetic Disorders (choose specific type) * Genetic Testing * Epigenetics * Human Genome Project * Biotechnology * DNA Fingerprinting * Forensic Testing * Gene Mutations * Chromosomal Mutations   **Body Systems:**   * Choose specific body system or organ * Choose a specific injury/illness/surgery   **Biomolecules:**   * Carbohydrates * Lipids * Proteins * Enzymes * Nucleic Acids * Autosomal Dominant inheritance/disorders * Autosomal Recessive inheritance /disorders |

**Writing Process**

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| **Nine Weeks** | **Process** |
| **1st**   1. Teacher allocate class time to utilize mini-lessons for the manipulation of information such small group discussions (based on topic), Pros/cons, Venn diagrams, Take a stand/position, what would happen if…, List the facts, Create a timeline, etc. 2. Students need to have an opportunity to discuss their research and understand it. | 1. Topic Selection – students choose a topic from the list or submit a topic for approval.   **Due: A- 9/15; B 9/16**   1. Research – students are allocated time to research topic; use at least 4 sources. 2. MLA format – used for work cited page. See Sample MLA format. 3. Complete introduction/thesis statement paragraph. Save research paper on google drive.   **Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **2nd**   1. Students submit a formatted 500 word document to be reviewed and graded by the teacher. 2. Teacher may take this opportunity to host another class discussion or mini-lesson session for the students. | 1. Host another mini-lesson session so students can internalize researched information – see 1st week’s activities. 2. Body Paragraphs - students begin writing their **1st Draft** – 500 words or more (include word count in document).Save research paper on google drive.   **Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **3rd**   1. Peer review of student papers. Use rubric for grading of research papers.   **Date of review: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**   1. Host another mini-lesson session to discuss papers and reviewed information. | 1. Peer Review – students revise and edit research papers. 2. Host another mini-lesson session so students can discuss changes in research papers and review scientific research – see 1st nine weeks’ activities. 3. **2nd Draft** of research paper is due- includes introduction and body paragraphs.Save research paper on google drive.   **Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **4th**   1. Students submit their final copy of their scientific research paper for evaluation. 2. All components of the paper should be included: introduction, body paragraph, conclusion, and work cited page in MLA format. 3. See sample of MLA format 4. Formatted research paper is typed, 12 pts, Calibri font, and doubled spaced. | 1. Student revising and editing of research paper. 2. **Final Draft** of research paper is due – must include work cited page (MLA Format) and parenthetical in text quotes (author, page #)Save research paper on google drive.   ***Final Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_*** |

**Research Paper Reminder:**

**1. Must use primary sources: journals/abstract; books**

**2. Secondary sources: editorials, opinions, magazines, articles**

***\*\*\*Wikipedia, ask.com etc…are not reliable sources\*\*\****

**MLA Format**

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**Sample Paper**

