

Independent Inquiry Investigation Requirements

Project Selection:

- No project should be recycled from previous school years or from another person.
- No project should be copied and pasted from the Internet.
- Topics must be approved by the student's teacher prior to the student working on the investigation.
- The investigation must portray scientific thought.
- The content (research) learned that is related to the investigation and the results of the investigation must exhibit real world relevance.
- The investigation must be grade-level and/or ability-level appropriate.

Setups:

- The experimental design, research plan, research paper, formal report, and abstracts must be typed in black ink on a white background.
- The experimental design, research plan, research paper, formal report, and abstracts must be typed in size 12 point Times New Roman and with one-inch margins.
- All required steps of the scientific investigation must be displayed on the digital poster in Google Slides.
- The letters of the title on the digital poster must be significantly larger than the body material of the display. The title must meet the requirement to be 3½ inches high when the poster is printed.
- The overall title must not take up more than 1/10th of the digital poster's surface area.
- The letters of the scientific method labels must be approximately 2 inches high when the poster is printed.
- The content on a digital poster must be enlarged enough (e.g. size 18 point TNR font) for a person to read, while standing approximately one foot away from the poster with the exception of extensive procedures. The content should not extend beyond 8" x 11" for the printed version of the poster.
- Any style of font may be used on the digital poster as long as it is legible.
- A colored background or colored framed sections are required on the digital poster.
- The font color and background color must contrast for clear viewing.

Details of Major Entries:

- **Five scientific resources** are required to compose the research paper.
- The research paper must be **three to five typed pages of content on the related topic(s)** in APA style (6th Edition).
- The **formal report must include** an abstract, introduction, problem, research, hypothesis, materials, protocol, results [i.e. table(s), graph(s), and discussion if applicable], analysis, conclusion, future works, applications, and references sections.
- The formal report must be typed in APA style (6th Edition).
- The **digital poster must include** problem, hypothesis, materials, protocol, results [i.e. table(s), graph(s), and discussion if applicable], analysis, and conclusion.

- The items on the digital poster must be in the order as they are arranged on the format provided.

Methods of Submissions:

- Share each entry through the correct Google application as directed.
- The five proposed topics must be entered through the Google Form assigned to a student's class.
- The experimental design, research plan, research paper, formal report, and abstracts must be shared as a Word document or Google Doc through Google Docs.
- The Grammarly report and log book must be shared as a PDF through Google Drive.
- The digital poster must be shared through Google Slides.
- Oral presentations will be conducted on camera.
- The final entries that are due December 18th through 8:00 a.m. on January 5th must be submitted in time for evaluation during oral presentations in class.
- **NO FINAL ENTRIES** will be accepted **AFTER** 8:00 a.m. on January 5th (for A-day and B-day classes).

Entries:

1. Five proposed topics
2. Experimental Design
3. Research Plan
4. Research Paper (3 content pages minimum)
5. Grammarly Report (for the research paper)
6. Formal Report (with an abstract in paragraph format)
7. Abstracts (a separate outline format)
8. Digital Poster (5ft x 3ft when printed)
9. Log Book (in a composition book that is a thread-bound 9^{3/4}" x 7^{1/2}" tablet with non-perforated sheets)
10. Oral Presentation