

9th Grade Summer Assignment for Physics Science Fair 2022-2023

Dear Students:

You will be completing a science fair project this year! And as early as now I want you to start working with it this summer. There are at least 8 steps to be taken to complete this project but don't worry you are only assigned to do the first two steps: Choosing the topics and writing the purpose only.

1. Choosing a topic(Title)
2. Purpose
3. Hypothesis
4. Variables (Independent and dependent variables, constant and control group)
5. Materials
6. Data/Results
7. Procedure
8. Conclusion

The project must be experimental in nature as opposed to research oriented. Meaning, you must do a test, survey or experiment to determine the answer to the purpose or question instead of just looking it up from the book/online. The completed project is due on January 10, 2023.

Now, I want you to think/research at least **5** scientific topics that interest you and can address real world problems or raise awareness or find solutions. Be mindful of the 8 steps that is needed while choosing the topics. You also need to include the purpose for each of the topics you chose. These **5 topics** are due the first day of school in September 2022, typewritten. Once received, I'll approve the best topic and will discuss the detailed ground work before moving forward to the next steps.

You may use this links for some topics and ideas.

<http://www.sciencekids.co.nz/projects.html>

<http://www.scholastic.com/teachers/article/40-cool-science-experiments-web>

<http://www.science-fair-guide.com>

<https://www.societyforscience.org/isef/>.

Please contact me if you have any questions or concerns via e-mail at cmanuel@stdominicacad.com.

Sincerely,

Mrs. C. Manuel