BEHIND THE SCENES: SCIENCE INVESTIGATORY PROJECT

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Science Investigatory Project (SIP) is one of the significant activities of Science wherein students, together with their advisers, are working on a project or research that may help to improve the status of Science education in the Philippines. SIP utilizes scientific method in order to determine the function of an idea. In making a Science Investigatory Project, the researchers must find an interesting topic, gather information about it and construct their hypothesis. Experimentation will be conducted to test the hypothesis, to be followed by recording of the data that will be gathered and lastly, communicating the results of the experiment.

The creation of SIP involves different steps that the researchers must follow, these steps are a) determine the field that you are good at or you enjoy doing, b) what problems that you are most concerned with, c) as a researcher who do you want to help the most?, d) which Department of Science and Technology priority umbrella does your problem be under with?, and lastly e) do a research about published papers that are associated with the topic you want to do. These published papers, that are related with the topic that the researches had chosen, will serve as the guide or references of their study.

The next step will be the accomplishment of the SIP research paper. After conducting the experiment, the researchers must put the data into a manuscript. The SIP format includes the following: 1. Abstract contains the objectives of the research, the steps conducted in an experiment, data gathered and the conclusions. It is composed of 250 words and must be written on one page only. The applications of the research must be included as well, and2. Research Paper are the information and details about the project
must be written on a research paper. It has different sections such as title page, general objective, specific objective, methodology, material/equipment, treatment or general procedure, results and discussion, conclusions, recommendations and bibliography.

The statements below are the definition and description of each of the parts of the research paper.

a. Title page – the title of the research must be appealing, direct to the point and simple.

b. General Objective- the purpose of the research that is associated with the first section.

c. Specific Objective- the main focus of the every experiment that the researchers are conducting.

d. Methodology- procedures that the researcher followed in order to test his idea.

e. Materials/equipment – it includes the materials being used in a said project or research.

f. Treatment/General Procedure – the sequence of proper experimentation. This section must be written in a paragraph style and the narrative form using past tense.

g. Results and Discussion- it includes findings, analysis of data and conclusions.

h. Conclusions- the result of the study emphasizing general truth. The proofs of the result must be summarized.

i. Recommendations- it tells the suggestions adhere for the future researchers.

j. Bibliography- it is where the references of the study be indicated.

3. Visual Display- this part is also important in order for the researcher to attract the viewers and judges. The display must be understandable and accurate.
Significantly, researchers may employ the steps above in order to have a good research paper. It will be a great help to avoid too many mistakes. Above all, SIP has positive effects such as; it stimulates the interest of the students in doing and creating useful things that can be utilized by the community and motivates the learners to be more observant of their surroundings. As a result, the Department of Education is encouraging every school to create meaningful SIP that may lead to great discoveries and inventions.

References:

https://www.pinoytechnoguide.com/2012/12/how-to-make-investigatory-project.html