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Science fair project results example for display board 2017 pdf download

Avoid clutter. Required paperwork is properly displayed on front of table. Title summarizes the project Make the title catchy! 4 EXAMPLES Poor Problem Statement: What affects the life of cut flowers? Better Problem Statement: How does sugar affect the life of cut flowers? Mix 10g of sugar with 50ml of distilled water. 15 Abstract Abstract: a short summary of the entire project. 4/22/2017 20 Complete list of rules available at this site: The aforementioned are permitted in a display as long as they do not include items Not Allowed for Display, such as the following: living organisms (including plants) taxidermy specimens preserved vertebrate or invertebrate animals human/animal food human/animal parts or body fluids chemicals drugs and other items listed in the Rules. Ex: the sugar 2- Dependent Variable (responding) Ex: the number of days the carnation lived 9 Constants (Not for 2nd grade) The constants are things that stay the same throughout the experiment. The abstract must be the one the Finalist submits when registering for ISEF. Summarize the key points of the procedure and how the investigation was conducted. 13 Conclusion Conclusion – Compare your results with your hypothesis. Containers of plants and dirt not allowed. 1 Tips on Designing an ISEF Affiliated Science Fair Project Display Board 4/22/2017 2 What a Well-Designed Project Board Should Accomplish Provides judges and the public with an overview of your project when you are not there to explain Emphasizes succinctly the scope of the project, the nature of the research, and the results Demonstrates your authority as a researcher by the neatness and correctness of the information presented 4/22/2017 3 Considerations before You Begin Type of Display: Tabletop (Note: If a table is used, the height, width, and depth of the table must be considered part of the project and figured in with the total dimensions of the project. It should be in the form of a question. 5 Hypothesis An educated guess about the problem statement based on research and prior knowledge. 4/22/2017 31 Where to Purchase Boards 4/22/2017 32 ISEF Society For Science Contacts for Additional Information John Cole, Chair of ISEF Display & Safety Committee, Nancy Aiello, 4/22/2017 1 Science Fair Projects 2 The Scientific Process Title/ Problem Statement Research Hypothesis Materials/Equipment Procedure Variables/Constants Controls Data (minimum 3 trials) Results Conclusion Application Abstract Log Book Bibliography The Scientific Process 3 Title/Problem Statement Problem Statement: What do you want to find out? Glass items not allowed. Try to develop a phrasing that captures attention but succinctly represents your research. They are also examples of boards that can be reused, or at least the frameworks can be reused, should you intend on competing additional years. Why did this happen? 4/22/2017 23 Containers of plants and dirt not allowed. Photographs of vertebrate animals in lab procedures, unnatural environments, or stress situations not allowed. Complete list of rules available at this site: 4/22/2017 21 Other Points to Consider In developing a display, you should also be certain to do the following: Credit all images/photos Make backup copies of all paperwork in case any is lost or misplaced Develop a way to secure a laptop or any permitted piece of equipment to prevent theft Make certain any lights or electrical equipment is UL-approved Provide your own UL power strip if you need more than one outlet 4/22/2017 22 Examples of Items Not Allowed The example on right illustrates soil or waste materials not properly sealed in acrylic. 6 Materials A vertical list of qualitative and quantifiable materials used to perform the experiment using the metric measurement Ex: 10 g sugar 50 ml distilled water 6 cut carnations 1 metric measuring cup 7 Procedures A step-by-step description of the experiment. To be turned in with the project. 16 Paragraph 3- Observation/Data/Results Paragraph 3- Observation/Data/Results. The summary paragraph should state some possible applications and extensions. Should be described briefly. Reviews role of supervisors, etc., and all required paperwork. If the finalist created all photos/images, a single credit is sufficient. Use no more than two or three colors, and choose colors appropriate to your subject. What were the major findings? Do not list materials. Arrange the information logically. The permitted height (floor to top) from the floor to the top of the project is 108”/274 cm. The example at left illustrates plant and soil materials properly encased in acrylic. As you may have to travel by air to the ISEF, consider developing a display that is light in weight and portable in size so that it can be carried easily on the plane or shipped quickly and inexpensively. Ex: the cut flower which was not given sugar 11 Data Record observations using a measuring tool Ex: metric ruler, Celsius thermometer, balance Design a data table to keep track of your results. The project to the right illustrates a display that would not be approved. 4/22/2017 18 Human Subjects Form 4 If photos of human subjects are displayed in the project, the Human Subjects Form 4 must be available in a notebook for an inspector to check. Begins with an action word/verb Example: 1. No awards, acknowledgments, handouts, etc., or addresses other than Finalist’s are visible. Remember, the idea behind the procedure is to allow another scientist to replicate the experiment. Paperwork hanging at top of display permitted. Displayed in a list form Example: Room temperature Sunlight Location of flowers Amount of water 10 Controls Controls – the part of the experiment you do not change so that you can compare the results of your test. All images properly credited 4/22/2017 30 Other Resources ISEF Rules Wizard The Rules Wizard has been designed as a first step to help you determine what forms and approvals are necessary before beginning a science fair project intended for competition at an ISEF-affiliated fair or the Intel International Science and Engineering Fair. D & S Inspectors Manual: This site contains a training PPT. for Host Committee D & S Inspectors that provides additional information on appropriate displays. 4/22/2017 27 Examples of Typical Violations Project 2 Project 1 Unofficial abstracts displayed Inappropriate pictures of animals Project 3 4/22/2017 No Photo Credits 28 Correct Freestanding Display All equipment displayed here meets safety regulations. Includes the following: Title page Table of Contents Introduction Problem Statement Background information Hypothesis Explanation of what prompted the research and what you hoped to achieve. SRC PowerPoint: The Scientific Review PowerPoint reviews regulations for projects. Judges and the public viewing the board must be able to comprehend quickly what your research involved. 4/22/2017 14 Original Abstract Every Finalist must display vertically an Original Abstract. Displayed in a list form 2 types: 1- Independent variable (manipulated)-the one you control or are changing. 4/22/2017 29 Correct Display Using Table Provided By ISEF Tri-fold board does not extend over edges of the provided table, which is 30” by 48”. What field of study or persons could benefit from the information gained from this experiment. Ex: graphs, charts, written summaries and photographs (no faces in the photographs). How can the experiment be improved? 4/22/2017 13 Required Paperwork for ISEF Every Finalist must display vertically an Original Abstract an SRC/DS2 Approval. 8 Variables (Not for 2nd grade) Variables – the part of the experiment you change. The conclusion should answer the following questions: What was investigated? What do you think might happen? Was the hypothesis supported/not supported by the data? Label all data tables, charts, graphs, or photographs you use. Embossed Seal 4/22/2017 15 Completed Intel ISEF Project Set-up Approval Form SRC/DS2 Every Finalist must display vertically the signed SRC/DS2 Approval Form once the project has been approved by a Display and Safety inspector. 4/22/2017 19 Other Display Considerations In addition to displaying required paperwork and a summary explanation of the research project procedure and conclusions, the Finalist may want to include the following: Graphs of data that represents depth of research or conclusions Pictures or illustrations of procedures Data books Mock-ups of specific designs, or laptop illustrations of procedures, etc. 4/22/2017 8 Dimensions of Project Display Tables supplied to Finalists at ISEF are the permitted width (side to side: 48”/76 cm) and depth (front to back: 30”/122 cm). 4/22/2017 26 If your display includes an electrical or engineering design, make certain that there is no exposed wiring and connections without non-conducting shielding or a grounded metal box or cage. You must be able to measure the experiment each day. Graphs should not be displayed. What recommendations do you have for further study? Freestanding Origin of Board: Commercial Self-made 4/22/2017 4 Another consideration in choosing materials to create a display board is the final weight of the display. In addition, if the Finalist is continuing research from a previous year and/or has used a research institution, the following documents must be displayed: Continuation Research Form 7 Research Institution Form 1C If a Finalist uses Human Subjects and/or displays pictures of individuals other than family members, a Human Subjects Form 4 must be kept in the notebook at the display. 12 How does sugar affect the life of cut flowers? Results Results – State the findings of the experiment based on the data you collected and analyzed. Describe the purpose and hypothesis. 4/22/2017 16 Continuation Project Form 7 If the project is a continuation of the previous year’s research, a copy of Form 7 must be vertically displayed. 19 Report This is a short summary of the entire project. in weight. 4/22/2017 9 A Few Rules to Follow Keep the display simple. 14 Application Application – state how the project and its results will be beneficial and who might benefit from this research. 4/22/2017 24 Sharp objects, such as this needle, are not allowed. Plant and other dried materials scattered for decoration are not allowed. Write as an “If...then...” statement Ex: If sugar is added to the water, then the cut flowers will live longer. This includes a table if used, with the chair on the side in front of the project as illustrated in the example. 20 Materials Procedures Variables Controls Data Results Conclusions Applications Bibliography 21 Encourage Participation Monitor Due Dates Support Research Efforts Visits to the library Internet research Interviews 22 Things Parents Can Do Help Secure Materials Brainstorm with your child Supervise experiments Contact the teacher 23 Things Not To Do Don’t do the work for your child Don’t focus on winning Don’t copy a project 24 HAVE FUN A Finalist will receive an embossed copy of the abstract once the project has been cleared for set-up at ISEF. Ex: The data revealed that the carnations given sugar lived “x” amount of days longer than the carnations given no sugar. (no more than 250 words) Paragraph 1- Purpose of the experiment. Describe and explain the key results that led directly to the conclusions drawn. How does sugar affect the life of cut flowers? 18 Bibliography (THIS IS NOT A SECTION ON THE DISPLAY BOARD) Placed in the Report Put your bibliography of at least 5 different sources on the same page Refer to page 9 of the student packet for MLA format for citations. 17 Log Book Composition Notebook that is used to record all of their information, with every step of the project. A daily log with their observations of the experiment. 4/22/2017 17 Regulated Research Institution Form 1C If a research institution is used, a copy of Form 1C must be vertically displayed. These forms should not be displayed in order to protect the anonymity of human subjects. 4/22/2017 5 Examples of Freestanding Displays 4/22/2017 6 Tabletop Displays 4/22/2017 7 In the examples just shown, you will note that each is a project that can be easily assembled at the ISEF and would not exceed 70 lbs. Paragraph 4- Conclusions. 4/22/2017 25 How to Credit Photos/Images Any photos, images, and graphs used in the display must be credited. 4/22/2017 10 Project Booth Configuration at ISEF Your project must be set up positioned at the rear of the booth parallel to the back curtain. It should be readable from a minimum of six feet. 4/22/2017 11 What the Board Should Display Purpose Hypothesis Materials Procedure Title (Keep it simple) Graphs Pictures Data Results Conclusion Abstract Other Required Paperwork 4/22/2017 12 The Project Title Again, keep it simple and short. Paragraphs 2- Procedures used.

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