

Guidelines – Aldine ISD - Intermediate Science Fair

Research Plan/Protocol

Must be returned by: _____

Required for all Projects Prior to Starting the Project Research

Student's Name _____ Grade _____ Phone _____
Student's Name _____ Grade _____ Phone _____
School's Name _____
School Address _____ City _____ Zip _____
Teacher's Name _____ Office Phone _____
Teacher's Conference Period _____

A. Problem _____

B. Starting Date of Research _____

C. Name and Address of place where experimentation will be conducted:

Name _____

Address _____ City _____ Zip _____

D. Name of Adult Supervisor _____

E. **Abstract:** The **abstract** is a **one-page summary** of the project. **The abstract will sit in front of the display board.** It should include the following information:

1. Problem/Hypothesis
2. Procedure – just the basic steps
3. Results – briefly state what you observed. Do not give tables or graphs.
4. Conclusion – what you found out.
5. Application and comments – how is your investigation important to the field of science.

F. **Research Paper:** The research paper is a summary of the information that has been read or studied prior to beginning the science fair investigation. Some of this information can be found in the school library, but other resources will be needed. Information can be obtained from individuals with knowledge in a particular field such as veterinarians, physicians, and engineers. Letters can be written to companies and phone calls that result in additional information can be included in the research. Audio-visual materials can also be a resource. Current books, magazines, and encyclopedias including those accessed through computers are the typical source of background knowledge information for students. Before deciding on a problem to investigate the students should consider how many sources of information can be located on the chosen topic. **A minimum of three different resources is required and these resources will be listed on a bibliography page that is included in the research paper.** One of these sources may be a print or electronic encyclopedia. The actual length of the research paper will be determined by the amount of information located on the topic and whether the student types the paper or writes the paper in cursive handwriting. Each student should conference with their science and language arts teacher during their research to determine their best outline to follow in completing the research paper.

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G. I understand that in order to enter my project into the Science Fair of Aldine ISD, I must obey **ALL** display, safety, and research rules and secure all needed project approvals **PRIOR** to my doing any project research.

Signature _____ Date _____
(Student)

Signature _____ Date _____
(Parent)

Note: The Research Plan/Protocol is required for all projects. This is completed and approved by the school science fair committee and program director. If the proposed research involves vertebrate animals, human subjects (including surveys of human subjects), recombinant DNA, human or vertebrate animal tissues, cell cultures or microorganisms and potentially dangerous chemicals or equipment, additional certifications and district approval is required. (If there are any questions about whether or not the proposed research complies with rules and requires additional certification, the completed project forms should be submitted to the district). **Major deviations from the original research plan must be approved prior to changes in experimental procedures being used by the student.**

Teacher Approval _____ Date _____

Science Committee Approval _____ Date _____

Program Director Approval _____ Date _____

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(Additional sheets where necessary)

1. **PROBLEM and HYPOTHESIS:**

Problem:
Hypothesis:

2. **METHODS or PROCEDURES:** (include if applicable, any special safety measures, animal care measures, and copies of any surveys to be used)

3. **Bibliography:** (Vertebrate animal experiments must include at least one animal care reference source)

