

SLV Regional Science Fair, Inc.
Elementary Protocol Form 4th and 5th graders
Revised September 2024

Form 1a MUST be completed for ALL projects

Please check the research category in which your project belongs. **CHECK ONLY ONE.**
Everyone must fill out pages one, two, three, four, and five first. In addition:
Students must fill out the forms, listed in parentheses below, their projects research category.

RESEARCH CATEGORIES

General _____ Human Research _____ Non-human Vertebrate Animals _____
Complete (Form 1A) **Complete (Forms 1A, 1B, 1C)** **Complete (Forms 1A, 1D)**

(Please Print or Type)

Student _____

Home Address _____ Phone Number _____

School _____

Teacher _____ Grade _____

PROJECT TYPE:

Individual

Team

PROJECT CATEGORIES: CHECK THE CATEGORY OF YOUR PROJECT

Behavioral and Social Sciences
Biomedical Sciences
Botany
Chemistry
Consumer Sciences
Earth and Space Sciences

Engineering
Environmental Sciences
Mathematics and Computer Sciences
Physics
Zoology

Title of Project _____

Is this a team project? _____ Yes _____ No A team may have no more than three (3) students.

If yes, who is the leader of the team? _____

Please list other team members: _____

Team projects **REQUIRE** each student involved in the team to fill out General Forms, pages 1-5 and Form 1a so that all signatures are in place. Please attach all papers together before sending in for approval.

SCIENTIFIC METHOD STEPS

QUESTION: What is the question/problem, engineering goal that you are trying to answer?

PURPOSE: What are you trying to find out? What is your purpose in doing this project?

PREDICTION: What do you think will happen? What do you think the outcome of your experiment will be?

MATERIALS: List in detail all materials you will need in order to do your experiment. Number, name, and size of item(s) used is expected. For example, write 1 clear glass jar, stating the size of the jar, 8 ounces of tap water, etc. For each material, check whether it could be harmful. **NOTE:** If you need water in your experiment, use distilled or purified water if possible. Tap water left over 24 hours and water collected from lakes, ponds, etc., can be considered pathogenic. This will require that the experiment be done in a controlled environment under supervision of a trained adult. If you need soil, please use purchased potting soil.

1. _____	Possibly Harmful?	Yes _____	No _____
2. _____	Possibly Harmful?	Yes _____	No _____
3. _____	Possibly Harmful?	Yes _____	No _____
4. _____	Possibly Harmful?	Yes _____	No _____
5. _____	Possibly Harmful?	Yes _____	No _____
6. _____	Possibly Harmful?	Yes _____	No _____
7. _____	Possibly Harmful?	Yes _____	No _____
8. _____	Possibly Harmful?	Yes _____	No _____
9. _____	Possibly Harmful?	Yes _____	No _____
10. _____	Possibly Harmful?	Yes _____	No _____

If you listed any materials above as possibly harmful, you must write WHERE YOU WILL ACQUIRE THE MATERIALS AND WHAT SAFETY PRECAUTIONS WILL BE USED WHEN DEALING WITH THEM. PLEASE DO THIS ON Page 5 (Risk Assessment).

PROCEDURE: List step by step in great detail how you are going to carry out your experiment. The procedure must be written legibly and in order. If more space is needed, please attach additional paper.

If you are unsure what to do, who can you go to for help about your project(s)?

LIST AT LEAST TWO REFERENCES FOR LIBRARY RESEARCH. References are required. Your protocol form will not be approved without these two entries. Date when information was retrieved is also required. No Wikipedia allowed.

1.

2.

Additional References:

Risk Assessment Form (Think outside the box)

***This is a required page for ALL projects.**

Identify and assess the risks involved in this project.

Describe the safety precautions and procedures that will be used to reduce the risks.

Describe the disposal of the procedures that will be used if applicable.

FORM 1A

MUST BE COMPLETED IF THIS IS A GENERAL RESEARCH PROJECT!!!!

By signing this form, student, parents and adult sponsors are verifying that they have read and understand the risks and possible dangers on working on this project and are consenting that the project can proceed.

Signature of student doing the project _____
Date

I am the parent/guardian and will be the person supervising the project and will make sure all safety precautions are followed.

Signature of parent/guardian _____
Date

Projects that use human beings in any way need to have a person with a science background (pharmacist, LPN, RN, veterinarian, biologist) etc., read and okay the procedure. This person is not supervising the project, but is stating the procedure/s is safe and correct.

Describe the safety precautions and procedures that will be used to reduce the risks.
I am a _____ and have a science background. I have read the procedure and believe it to be safe if all safety precautions as listed and suggested are followed.

Signature of person with science background _____
Date

I am the teacher of the student working on this project. I am teaching the student how to do a science fair project, but I am not actually supervising the actual experiment.

Signature of the classroom teacher _____
Date

I am a member of the local school review committee. I have reviewed the project and consent that the project may now proceed.

Signature of the school review committee _____
Date

DIRECT SUPERVISOR PAGE

Projects that could be considered to be **pathogenic or have the potential for physical harm** in any way will require the supervision of a trained adult in a controlled environment. Examples: use of chemicals, fire, firearms, construction of electrical devices, use of hazardous substances, use of water that is not purified, use of non-composted or contaminated soil, etc.

Studies involving the culturing of pathogenic agents in a home environment are strictly prohibited, but non-cultured specimens may be collected at home and transported to a lab for culturing.

I am a _____ and certify that I have been trained in the techniques to be used by the student. I will provide direct supervision of the project and will make sure that all safety precautions will be followed. The project will be performed at the following institution:

Agency _____

Address _____

Town _____ State _____ Zip _____

Printed name of designated science supervisor

Date

Title of supervisor

Position/institution

Address

List and describe your responsibilities in directly supervising the student. Include all hazardous substances and devices used in this research, safety precautions to be taken and the proper disposal proc

Form 1B

TO BE COMPLETED FOR HUMAN RESEARCH PROJECTS

All members of a team must have parental permission, so the form 1A is needed for all students.

Any research that involves the use of humans must have the human protocol form (form 1B) signed by the regional SRC **BEFORE** experimentation begins. Also, Informed Consent forms (form 1C) for EACH participant must be filled out **BEFORE** experimentation begins.

A copy of any test, survey, or questionnaire must be provided for parental review for any subject less than 18 years of age.

All signed informed consent forms **MUST BE** returned to the Regional Science Fair, during registration.

Note: Approval (parental signature) of this form indicates that the parent/guardian has given permission for the experiment to be done.

Verifying Signatures:

Student _____

Parent/Guardian _____

Teacher _____

School SRC/IRB Committee _____ Date _____

(School SRC/IRB please check one)

If working with children 18 and under, this MUST be marked "More Than Minimal Risk"

Minimal Risk Involved _____ More Than Minimal Risk Involved _____ Unacceptable Risk _____

Unacceptable Risk Projects will not be accepted.

Regional SRC _____ Date _____

Form 1C

INFORMED CONSENT FORM

Student

First: Complete this form except for the signatures of the participant, participant's parent, and teacher's signature.

Second: Make copies of this form **for each human participant** in your project.

Third: Have each participant/participant's parent read the form and have the participant, the participant's parent, and the teacher sign the form.

Fourth: If a survey is used in the project, a copy of the survey **MUST** be included for parental review for subjects under 18 years of age.

1) List all materials used in your investigations. Are there any harmful materials? If so, which ones?W

2) What are the research procedures in which the human subjects will be involved? Be very specific and detailed.

3) What are the possible risks and discomforts the subject may reasonably expect by participation in this research?

4) What are the procedures that will be used to minimize the risks?

Participant: I have read and understand the conditions stated above and consent to participate in this research procedure. I understand that I am free to withdraw my consent and to discontinue participation in this research activity at any time without prejudice toward myself.

Parent or guardian signature is needed if test subject is under the age of 18 or a protected special needs person.

Student's Name	Student's Signature	Date
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Participant's Name	Participant's Signature	Date
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Participant's Parent's Name	Participant's Parent's Signature	Date
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Teacher's Name	Teacher's Signature	Date
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FORM 1D

TO BE USED FOR NON-HUMAN VERTEBRATE ANIMAL RESEARCH

1) Why is it necessary to use vertebrate animals in this project? (If you can do the project without vertebrate animals please do so.) Where will the animals be obtained?

2) How will the animals be cared for?

a) Food: What type of food and how often will they be fed and watered?

b) Care: What type of bedding will be used?

c) Location: Where will animals be housed?

d) What will happen to the animals after the completion of this project?

READ THE FOLLOWING CAREFULLY:

- 1) Primary concern should be given to the humane treatment of animals.
- 2) **The use of alcohol, acid rain, insecticide, herbicide and heavy metals in toxicity or behavioral studies on live vertebrates is prohibited.**
- 3) **NO surgery on animals will be permitted.**
- 4) Unnecessary pain or discomfort to animals will result in disqualification from regional competition.
- 5) This form must be completed and approved by the Regional Scientific Review Committee BEFORE any research begins.
- 6) If the project is anything more than observational in a normal setting, or small changes such as hiding toys or treats, then the project needs to be cleared by a veterinarian. Examples of projects that must be pre-approved are food studies, excessive handling or cage stress, or drastically changing the animal's environment. If you are unsure if your project should be pre-approved, please check with your vet.

Note: Approval (parental signature) of this form indicates that the parent has given permission for the experiment to be done.

Verifying Signatures:

Student _____
Printed Name Signature

Parent/Guardian _____
Printed Name Signature

Teacher _____
Printed Name Signature

School Review Committee _____ Date _____

Regional SRC _____ Date _____

Adult supervising animal care

(Name and Title) Date _____

Address _____

Signature of Veterinarian _____ Phone Number _____