



# Salt Lake Valley Science and Engineering Fair

## Elementary and Junior Divisions



Entry form for the Granite, Murray, Salt Lake, Park City, Canyons, North Sanpete and Tooele School Districts, the Salt Lake Catholic Diocese, and Private and Home Schools

All students completing a science fair project in grades 5-8 in the Granite, Murray, Salt Lake, Park City, Canyons, North Sanpete and Tooele School Districts, the Salt Lake Catholic Diocese, and Private and Home Schools must complete this form, complying with safety and experimentation rules. Completion of this form does not guarantee advancement to the District Science Fair or SLVSEF. School districts are required to submit student entry forms to SLVSEF by February 24, 2017. Student finalists selected to advance to SLVSEF are required to register online at <https://slvsef.org/students> by **February 24, 2017**. For more information visit <https://slvsef.org/>.

### Student Information

**Student's Name** \_\_\_\_\_ **Grade Level** (check one): 5  6  7  8   
Home Phone \_\_\_\_\_ Parent/Guardian E-mail \_\_\_\_\_

**Is your project a team project? If so, ALL members must be listed below.**

**Team Member/Student's Name** \_\_\_\_\_ **Grade Level** (check one): 5  6  7  8   
Home Phone \_\_\_\_\_ Parent/Guardian E-mail \_\_\_\_\_

**Team Member/Student's Name** \_\_\_\_\_ **Grade Level** (check one): 5  6  7  8   
Home Phone \_\_\_\_\_ Parent/Guardian E-mail \_\_\_\_\_

### Project Information

**During my experiment I plan to test: (if yes, signatures must be received after individuals have reviewed the full experiment and PRIOR to experimentation)**

Yes:  No:  **Human Test Subjects (ex: survey, taste test, play a game, or interact with in any way)**

During review, if it is determined that there is more than minimal psychological or physical risk to the human subjects involved in the project, the student must receive written consent from each of the participants and written parental consent for students under 18 years old, MUST be included with registration form. If it is determined that there are unacceptable risks involved the student must revise his or her project. Please attach a copy of the surveys or tests you intend to use with your research plan.

If yes, \_\_\_\_\_ & \_\_\_\_\_  
(Science Teacher Signature & Date) (Psychologist, Medical doctor, or Registered nurse Signature & Date)

Yes:  No:  **Non-Human Vertebrate Animals (ex: fish, rabbits, dogs, etc.)**

Experiments involving laboratory animals (rats, mice, hamsters, gerbils, rabbits, etc) cannot be conducted in a student's home except for behavior studies on pets. Proper animal care must be provided daily, including weekends, holidays and vacations. Experimental procedures that cause unnecessary pain or discomfort are prohibited. Experiments designed to kill vertebrate animals are not permitted. Experiments with a death rate of 30 percent or higher are not permitted. Behavioral studies or supplemental nutritional studies involving pets or livestock may be done at home.

If yes, \_\_\_\_\_ & \_\_\_\_\_  
(Science Teacher Signature & Date) (Veterinarian or other Biomedical/Biological Scientist & Date)

Yes:  No:  **Prescription or Over the Counter Drugs, Alcohol, Tobacco**

Students must adhere to all federal, state and local laws when acquiring and handling controlled substances. Only under the direction of a qualified scientist or designated supervisor may a student use federally controlled or experimental substances for therapy or experimentation. Students under 21 may not handle or purchase smokeless powder or black powder for science projects.

If yes, \_\_\_\_\_ & \_\_\_\_\_  
(Science Teacher Signature & Date) (Biomedical/Biological Scientist & Date)

Yes:  No:  **Potentially Hazardous Chemicals, Weapons/Firearms, Lasers, Radiation, etc.**

Students must adhere to federal and state regulations governing hazardous substances or devices. **An adult must directly supervise the experiments.** Students working with hazardous substances or devices must follow proper safety procedures for each chemical or device used in the research.

If yes, \_\_\_\_\_ & \_\_\_\_\_  
(Science Teacher Signature & Date) (School Administrator & Date)

Yes:  No:  **Bacteria, Mold, Fungi, Viruses or Parasites, Human or Animal Fresh Tissues, blood or body fluids, etc. (Potentially Hazardous Biological Agents)**

Determine the level of biological containment available to the student researcher. **Biosafety Level 1 projects can be performed in a school BSL-1 laboratory but are prohibited in the home environment. Bacteria, mold, fungi or any other potentially hazardous biological agent CANNOT be cultured at home.** Standard microbiological practices must be used and all hazardous agents must be properly disposed of at the end of experimentation. The experiment must be supervised by a qualified scientist or a trained designated supervisor. For lab space or questions, please visit <https://slvsef.org/resource-center/find-a-lab>.

If yes, \_\_\_\_\_ & \_\_\_\_\_  
(Science Teacher Signature & Date) (Biomedical/Biological Scientist & Date)

## Project Categories

### Elementary Division Categories (check one):

- |  |  |
|--|--|
| <input type="checkbox"/> Behavioral & Social Sciences (BE)       | <input type="checkbox"/> Engineering: Electrical & Computer Science (EE) |
| <input type="checkbox"/> Biology & Biochemistry (BI)             | <input type="checkbox"/> Engineering: Materials & Biomedical (MB)        |
| <input type="checkbox"/> Chemistry (CH)                          | <input type="checkbox"/> Engineering: Mechanical (ME)                    |
| <input type="checkbox"/> Earth & Environmental Sciences (ES)     | <input type="checkbox"/> Medicine & Health Sciences (MH)                 |
| <input type="checkbox"/> Energy: Chemical & Physical (EN)        | <input type="checkbox"/> Physics, Astronomy, & Math (PA)                 |
| <input type="checkbox"/> Engineering: Civil & Environmental (CE) | <input type="checkbox"/> Plant Sciences (PS)                             |

## Science Fair Project Research Plan

**My Question is:** \_\_\_\_\_

\_\_\_\_\_

**When I researched my question/topic I found:** (“No research available” is NOT a valid response, investigate keywords about your question, or discuss what you read/saw that lead you to your question)

\_\_\_\_\_

\_\_\_\_\_

**My Hypothesis is:** (Remember, a strong hypothesis includes what you expect to happen AND a supporting reason.)  
Example: I think that the soccer ball will bounce higher than the football because the soccer ball is round.

\_\_\_\_\_

\_\_\_\_\_

**Where will your experiment be conducted? Please list all locations.**

(Bacteria/fungi/mold projects or any other project involving potentially hazardous biological agents CANNOT be cultured or grown at home. See previous page.)

\_\_\_\_\_

**Adult Supervisor's Name & Phone Number** \_\_\_\_\_

### Procedure/Project Summary

(Please write a detailed explanation about what you plan to do for your experiment. ***Include all safety precautions*** that will be in place for you and your test subjects):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Use another sheet of paper if necessary.

# NOTE: If you are part of a team, this page must be completed by each student and their parent/guardian.

## Display and Safety Rules – The Following Items Cannot be Displayed at the Science Fair

1. Living Organisms
2. Plant materials (living, dead or preserved)
3. Taxidermy specimens or parts
4. Preserved animals – includes embryos
5. Food (empty containers may be displayed)
6. Human or animal parts or body fluids
7. Soil, sand or waste samples
8. Laboratory/household chemicals – including water
9. Poisons, drugs, hazardous substances or devices
10. Sharp items – pipettes, glass, syringes, needles
11. Dry ice or other sublimating solids
12. Flames or highly flammable display materials
13. Empty tanks that previously contained combustible liquids or gases
14. Batteries with open top cells
15. Photographs of people other than yourself or your family without their written permission.
16. Photographs or other visual presentations depicting vertebrate animals in surgical techniques, dissection, necropsies, other lab techniques, improper handling methods, improper housing conditions etc.

*The Salt Lak Valley Science and Engineering Fair, and the participating school districts reserve the right to remove anything else displayed with your science fair project that may be deemed hazardous or inappropriate for public display.*

Project board size limit: 30” deep, 48” wide (side to side), and 108” tall

## Student & Parent/Guardian Signatures

I certify that my science project complies with all of the experimental rules of the Salt Lake Valley Science and Engineering Fair. I understand that if I have not complied with these rules that my project could fail to qualify for competition. I have also read and I understand the display and safety rules. If I display any of the objects listed above, I am aware that they will be removed and returned at the conclusion of the science fair. If I am selected to participate, **I agree to set up my project on the appointed day prior to my competition and I will leave my project on display until the designated time for project tear down. I understand that I must be present for judging during the designated competition date and time.**

Signature of Student \_\_\_\_\_ Signature of Parent/Guardian \_\_\_\_\_ Date \_\_\_\_\_

## Teacher Signature

I have reviewed and approved this student’s research plan prior to experimentation and certify that they will comply with all of the experimtnal rules of SLVSEF.

\_\_\_\_\_  
Teacher Signature Date

## SLVSEF Approval for Competition

Completed by SLVSEF Personnel upon advancement to SLVSEF

\_\_\_\_\_  
Regional SRC Approval

\_\_\_\_\_  
Date

Every effort will be made to protect exhibits from loss or damage. However, since the exhibition of projects is open to the public, the SLVSEF Committee and University of Utah cannot and will not accept any liability or responsibility of any nature for any theft, loss or damage to any exhibit or any other property of any SLVSEF participant. Accordingly, it is recommended that each participant should secure and guard his/her project and take all prudent precautions to prevent any theft, loss or damage to their project.

For more information please visit our website <https://slvsef.org>

The Salt Lake Valley Science and Engineering Fair is presented by the Center for Science and Mathematics Education and the University of Utah.