Students in grades 5-8 in the Salt Lake, Murray, Tooele, Park City, Granite, and Canyons Districts, as well as Charter and students from the Salt Lake Catholic Diocese who would like to participate in the University of Utah Science and Engineering Fair (USEF) must complete all three pages of this form to become eligible to compete. USEF participants will also be required to register online by February 26, 2018. Forms must be submitted to your district representative in order to advance to USEF.

**Student Information**

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<tr>
<th>Student’s Name</th>
<th>Grade Level: (Check One)</th>
<th>Home Phone</th>
<th>Parent/Guardian Email</th>
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Is your project a team project? If so, all members must be listed below.

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**Project Information**

Project Title

School ____________________________ District ____________________________

Teacher Name (first & last name) ____________________________ Teacher’s Email ____________________________

Parent/Adult Supervisor’s Name ____________________________ Phone ____________________________

My Question:

The main supplies I will need for my experiment are: ____________________________

Procedure:

(Please write a detailed explanation about what you plan to do for your experiment. Attach extra paper, if needed):
**My Experiment will Involve the Following** (check all that apply. If none apply, please leave blank but still submit):

- **Human Subjects**
  All human research projects must be reviewed and approved by a science teacher, or a school administrator and one of the following: a psychologist, psychiatrist, medical doctor, physician’s assistant or registered nurse before the student begins experimentation. If they determine 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 participating and written parental consent for students under 18 years old. If they determine 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. Students may not publish or display information that identifies the human subjects.

- **Non-Human Vertebrate Animals**
  All projects involving non-human vertebrate animals must be reviewed and approved by two science teachers and a biomedical scientist (ex. a local veterinarian) before the student begins experimentation. Alternatives to the use of vertebrate animals must be explored and included in the student’s research plan. 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. Students may not perform euthanasia, except in emergency situations. Alcohol, acid rain, insecticide, herbicide and heavy metal toxicity studies are prohibited. 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.

- **Controlled Substances** (Prescription Drugs, Tobacco, Alcohol, etc)
  All projects involving controlled substances must be reviewed and approved by two science teachers and a school administrator or biomedical scientist before the student begins experimentation. 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.

- **Hazardous Substances or Devices** (Chemicals, Firearms, Welders, Lasers, Radioactive Substances, Radiation)
  Students must adhere to federal and state regulations governing hazardous substances or devices. An adult must directly supervise experiments. Students working with hazardous substances or devices must follow proper safety procedures for each chemical or device used in the research.

- **Potentially Hazardous Biological Agents**
  (Bacteria, Mold, Fungi, Viruses, Parasites, Recombinant DNA (rDNA), Human or Animal fresh tissues, blood or body fluids, etc)
  All projects involving potentially hazardous biological agents must be reviewed and approved by two science teachers and a biomedical scientist before the student begins experimentation. It is the responsibility of the student and the adults involved with the project to conduct a risk assessment. Risk assessment defines the potential level of harm, injury or disease to plants, animals and humans that may occur when working with biological agents. Risk assessment involves:

  1. Assignment of the biological agent to a biosafety level risk group. Students in grades 5-8 may only conduct research with biological agents determined to be Biosafety Level 1 (BSL-1). BSL-1 agents pose low risk to students or the environment and are highly unlikely to cause disease in healthy people, animals or plants. Examples of BSL-1 Microorganisms include: Agrobacterium radiobacter, Aspergillus niger, Bacillus thuringiensis, Escherichia coli strain K12, Lactobacillus acidophilus, Micrococcus leuteus, Neurospora crassa, Pseudomonas fluorescens, and Serratia marcescens. Studies involving unknown microorganisms can be determined BSL-1 if the organism is collected in a plastic Petri dish or other non-breakable container and is sealed and remains sealed during the entire experiment. Examples of BSL-1 rDNA studies include: Cloning of DNA in E. coli K12, S. cerevisiae, and B. subtilis host vector systems. Examples of BSL-1 Tissue studies involve the collection of non-infectious fresh tissues (not including blood or blood products) with little likelihood of microorganisms present. Projects involving blood or blood products are considered Biosafe Level 2. Plant tissues, established cell lines and cultures, meat from food stores or restaurants or packing houses, hair, teeth that have been sterilized, and fossilized tissue do not need to be treated as potentially hazardous biological agents.

  2. Determine the level of biological containment available to the student researcher. Biosafety Level 1 projects can be performed in a school laboratory but are prohibited in the home environment. 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 a complete list of rules regarding all of the subjects listed above please visit the following website: [http://student.societyforscience.org/international-rules-pre-college-science-research](http://student.societyforscience.org/international-rules-pre-college-science-research)

If your science fair project will include any of the subjects listed above, you must receive approval before you begin experimentation and obtain the signatures of those approving your project.

<table>
<thead>
<tr>
<th>Science Teacher Approval</th>
<th>Date</th>
<th>Science Teacher Approval</th>
<th>Date</th>
<th>Other (doctor, biomedical scientist, etc)</th>
<th>Date</th>
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- **None of These**
**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. Human or animal food
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 University of Utah Science & 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.

I certify that my science project complies with all of the experimental rules of the University of Utah Science and Engineering Fair. I have also read and I understand the display and safety rules. If I display any of the items listed above, I am aware that they will be removed and returned at the conclusion of the science fair. 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 conclusion of the awards ceremony.

Signature of Student ____________________________ Date ____________

If this is a team project, each additional team member must sign below.

Signature of Student ____________________________ Date ____________

Signature of Student ____________________________ Date ____________

I give my permission to allow appropriate information about my child to be used for publicity purposes. This includes photographs submitted by me or my child as well as any photographs, videos or likenesses that by be used by the University of Utah Science & Engineering Fair, or the sponsors of awards for the purposes of illustration, advertising or publication in any manner. I also consent to the use of my child’s name in connection therewith.

Signature of Parent/Guardian ____________________________ Date ____________

If this is a team project, each additional team member’s Parent/Guardian must sign below.

Signature of Parent/Guardian ____________________________ Date ____________

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 experimental rules of the University of Utah Science & Engineering Fair.

Teacher Signature ____________________________ Date ____________

**USEF Approval for Competition**

Regional SRC Approval ____________________________ Date ____________