

2014 Central Utah Science & Engineering Fair

Preliminary Science Fair Entry Form – Elementary Division Grades 5-6

Entry form for the Alpine District, Charter School, Jordan District, Nebo District, Provo District and Wasatch District Science Fairs and Private & Home Schools



Students in grades 5-6 who are selected to participate in the Alpine, Charter School, Jordan, Nebo, Provo, or Wasatch District science fairs must complete all four pages of this entry form to become eligible to compete in their district science fair as well as the Central Utah Science & Engineering Fair (CUSEF). Completion of this form does not guarantee advancement to CUSEF. Winners will be selected at each of the district science fairs or the charter school science fair to compete at CUSEF on March 25 or 26, 2014. There is a \$10.00 registration fee for every student who participates at CUSEF. School districts are required to submit student entry forms to CUSEF by February 28, 2014. CUSEF participants will be required to register online at http://cusef.byu.edu/students by February 28, 2014. For more information visit http://cusef.byu.edu.

Student Information			
Student's Name		Grade Level: (Check One) 5 6	
Mailing Address			
City	Zip	Home Phone	
Is your project a team project? If so, all mem	bers must be listed below.		
Student's Name		Grade Level: (Check One) 5 6	
Mailing Address			
City	Zip	Home Phone	
Student's Name		Grade Level: (Check One) 5 ☐ 6 ☐	
Mailing Address			
City	Zip	Home Phone	
Project Information			
Project Title			
, and the second			
School			
Teacher Name (first & last name)	Teacher's Email		
Elementary Division Categories (check one): Earth Science Engineering & Computer Science Life Science Physical Science - Chemistry Physical Science - Physics Product Testing & Consumer Science	I plan to test the following in my experiments (check all that apply) ☐ Human Test Subjects ☐ Non-Human Vertebrate Animals ☐ Prescription or Over the Counter Drugs, Alcohol, Tobacco ☐ Hazardous Chemicals, Weapons/Firearms, Lasers, Radiation, etc ☐ Bacteria, Mold, Fungi, Viruses or Parasites (cannot be grown at home) ☐ Human or Animal Fresh Tissues, Recombinant DNA or Body Fluids *If any of the above are marked you must review the Science Fair Project Rules page of this application and get prior approval signatures before you begin experimentation.		
	☐ None of These		
Answers to the following questions are required for those will 1. Does your project require electricity? (circle of 2. Is your project a team project? (circle one) 3. Is your project display too tall for a table? 4. What are the dimensions of your project display too tall for a table?	$\begin{array}{c} \text{Yes} \\ \text{Yes} \\ \text{Yes} \\ \text{Yes} \\ \text{Yes} \\ \text{Yes} \\ \text{Width} \end{array}$	No No No	

Maximum project size is 30 inches deep (front to back), 48 inches wide (side to side) and 108 inches tall (floor to top - including table). All project materials must fit within these dimensions. Projects exceeding these measurements must be modified.

SCIENCE FAIR PROJECT RULES

My Experiment will Involve the	he Following (check all that apply)):
psychiatrist, medical doctor, physician's as more than minimal psychological or physic of the participants and written parental con	ssistant or registered nurse before the s cal risk to the human subjects involved isent for students under 18 years old. If se attach a copy of the surveys or tests	r, a school administrator and one of the following: a psychologist, tudent begins experimentation. If they determine that there is in the project, the student must receive written consent from each they determine that there are unacceptable risks involved the you intend to use with your research plan. Students may not
local veterinarian) before the student beg student's research plan. Experiments invol home except for behavior studies on pets. I procedures that cause unnecessary pain or may not perform euthanasia, except in eme	te animals must be reviewed and appr ins experimentation. Alternatives to the ving laboratory animals (rats, mice, has Proper animal care must be provided dediscomfort are prohibited. Experiments bergency situations. Alcohol, acid rain, in	roved by two science teachers and a biomedical scientist (ex. a he use of vertebrate animals must be explored and included in the msters, gerbils, rabbits, etc) cannot be conducted in a student's aily, including weekends, holidays and vacations. Experimental a designed to kill vertebrate animals are not permitted. Students insecticide, herbicide and heavy metal toxicity studies are d. Behavioral studies or supplemental nutritional studies involving
scientist before the student begins experi controlled substances. Only under the direct	es must be reviewed and approved by imentation. Students must adhere to all ction of a qualified scientist or designate	two science teachers and a school administrator or biomedical lederal, state and local laws when acquiring and handling sed supervisor may a student use federally controlled or ot handle or purchase smokeless powder or black powder for
involving hazardous substances or devices adhere to federal and state regulations government.	must be reviewed and approved by two erning hazardous substances or devices	s, Lasers, Radioactive Substances, Radiation). All projects o science teachers and a school administrator. Students must an adult must directly supervise the experiments. Students res for each chemical or device used in the research.
All projects involving potentially hazardou before the student begins experimentation	Recombinant DNA (rDNA), Human on the biological agents must be reviewed at on . It is the responsibility of the studenth otential level of harm, injury or disease	r Animal fresh tissues, blood or body fluids, etc) and approved by two science teachers and a biomedical scientist t and the adults involved with the project to conduct a risk to plants, animals and humans that may occur when working with
agents determined to be at Bio unlikely to cause disease in healt Aspergillus niger, Bacillus thuric crassa, Pseudomonas fluorescen the organism is collected in a p entire experiment. Examples of systems. Examples of BSL-1 Tis with little likelihood of microorg	safety Level 1 (BSL-1). BSL-1 agents thy people, animals or plants. Examples angiensis, Escherichia coli strain K12, L as, and Serratia marcescens. Studies in clastic Petri dish or other non-breaka as BSL-1 rDNA studies include: Cloning as use studies involve the collection of not ganisms present. Projects involving blocestablished cell lines and cultures, hair,	ents in grades 5-8 may only conduct research with biological pose low risk to students or the environment and are highly sof BSL-1 Microorganisms include: Agrobacterium radiobacter, actobacillus acidophilus, Micrococcus leuteus, Neurospora volving unknown microorganisms can be determined BSL-1 if ble container and is sealed and remains sealed during the gof DNA in E. coli K12, S. cerevesiae, and B. subtilis host vector on-infectious fresh tissues (not including blood or blood products) od or blood products (including animal meat) are considered teeth that have been sterilized, and fossilized tissue do not need to
school laboratory but are proh cannot be cultured at home. St	ibited in the home environment. Bac andard microbiological practices must	esearcher. Biosafety Level 1 projects can be performed in a teria, fungi or any other potentially hazardous biological agent be used and all hazardous agents must be properly disposed of at alified scientist or a trained designated supervisor.
■ None of These *For a complete list of rules regarding all ohttp://www.societyforscience.org/isef/rulesan		the following website:
If your science project involves any of the signatures of those approving your p		o receive approval before you begin your experiment and obtain
Science Teacher/Date	Science Teacher/Date	Biomedical Scientist (Doctor, Veterinarian, etc)/Date

SCIENCE FAIR PROJECT RESEARCH PLAN My Question: ___ Books or articles I have read about my topic. My Hypothesis: The supplies I will need for my experiment are: Where will your experiment be conducted? Please list all locations. (Please note that bacteria/fungi projects or any other project involving potentially hazardous biological agents cannot be cultured or grown at home.) Adult Supervisor's Name & Phone Number_____ Procedure (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.

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
- 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 Central 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.

Student & Parent/Guardian Signatures		
I certify that my science project complies with all of the experimer understand that if I have not complied with these rules that my prounderstand the display and safety rules. If I display any of the object returned at the conclusion of the science fair. If I am selected to part to set up my project on the appointed day prior to my competition project tear down.	ject could fail to qualify for competition. cts listed above, I am aware that they will rticipate at the Central Utah Science & En	I have also read and I be removed and ngineering Fair, I agree
Signature of Student Signature If this is a team project, each additional team member must sign below	of Parent/Guardianw.	Date
Signature of Student Signature	of Parent/Guardian	Date
Signature of Student Signature	of Parent/Guardian	Date
I give my permission to allow appropriate information about my cl submitted by me or my child as well as any photographs, videos or Engineering Fair, the BYU David O. McKay School of Education for the purposes of illustration, advertising or publication in any m therewith. Signature of Parent/Guardian If this is a team project, each additional team member's Parent/Guardian	r likenesses that by be used by the Central and the BYU-Public School Partnership, anner. I also consent to the use of my chil	Utah Science & or the sponsors of awards d's name in connection
Signature of Parent/Guardian	Date	
Signature of Parent/Guardian	Date	
Teacher Signature	CUSEF Approval for Compet	ition
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 Central Utah Science & Engineering Fair.	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 CUSEF Committee, Brigham Young University or the BYU-Public School Partnership school districts 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 CUSEF 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 http://cusef.byu.edu

Teacher Signature

The Central Utah Science & Engineering Fair is presented by the BYU David O. McKay School of Education and the BYU-Public School Partnership

Date