

Entry Form and Entry Fees are due Feb. 16, 2010. No Late Entries will be accepted.

## 2009-2010 Hutchinson Regional Science and Engineering Fair Research Plan & Scientific Review Committee (SRC) Approval Form

NOTE: Grades 4-8 must use this form OR the official ISEF Forms (1, 1A, Research Plan, and 1B) to participate in KS Regional and State Science Fairs and be approved by a regional SRC committee. Grades 9-12 must use the official ISEF Forms (1, 1A, Research Plan, and 1B.) All projects must be approved by the regional SRC committee.\* Each participant must fill out all forms, even if they are a member of a team.

Student Name \_\_\_\_\_ Grade \_\_\_\_\_ Phone \_\_\_\_\_

Student or Parent Email \_\_\_\_\_ Is student a member of a team project? \_\_\_\_\_

Teacher's Name \_\_\_\_\_

Teacher's Email \_\_\_\_\_

School \_\_\_\_\_

School Address \_\_\_\_\_

Project Title \_\_\_\_\_ Category \_\_\_\_\_

Where was the project completed? \_\_\_\_\_ School \_\_\_\_\_ Field \_\_\_\_\_ Home \_\_\_\_\_ Research Institution \_\_\_\_\_

Parent or Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Qualified Scientist/Adult Sponsor \_\_\_\_\_ Phone \_\_\_\_\_ Email \_\_\_\_\_

(A qualified scientist is someone working as a scientist or engineer in the field of study/research. Complete if required.\*\*)

### **STUDENTS MUST WRITE A RESEARCH PLAN AS LISTED BELOW AND HAVE THE PLAN APPROVED PRIOR TO BEGINNING THE EXPERIMENT! THIS FORM AND THE RESEARCH PLAN MUST BE SUBMITTED TO ALL FAIRS!**

Research Plan (complete on another sheet to turn in for review):

- A. Question or Problem being addressed
- B. Hypothesis/Engineering Goals
- C. Description in detail of method or procedures (The following are important key items that should be included when formulating ANY AND ALL research plans.)
  - 1) **Procedures:** Detail all procedures and experimental design to be used for data collection.
  - 2) **Safety Issues:** Detailed information on how any safety issues are addressed and who is monitoring these issues.
  - 3) **Data Analysis:** Describe the procedures you will use to analyze the data that answer the research question or hypothesis
- D. **Bibliography:** List at least three (3) and preferably five (5) major references (e.g. science journal articles, books, internet, sites) from your literature review. If you plan to use vertebrate animals, one of the references must be an animal care reference. (If using internet resources, suggest .edu and .gov sites for accuracy.)

Teacher Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Teacher or Qualified Adult Supervisor may approve if projects **do not** involve any of the items listed below.

\*\*If you are working with ANY of the following items, you **MUST** have a "Qualified Scientist /Adult Sponsor" to supervise your work and **first be approved by the regional SRC Committee: Non-Human vertebrate animals, Bacteria, Human/Animal Tissue, Recombiant DNA, Pathogens, Humans Subjects, Controlled Substances, Hazardous Substances or Hazardous Devices.** You must also use the ISEF Rules Wizard at <http://www.societyforscience.org/isef/teachers/wizard/index.asp> to determine other forms that may be required for your research and if approval is needed before the experiment!

**Any Division I projects (grades 9-12) using hazardous chemical, activities or devices or using regulated substances and some potentially hazardous biological agents:** Attach completed ISEF form 3.

**Projects involving human subjects:** attach an unsigned sample of the Consent Form and the completed ISEF Form 4 – Human Subjects and Informed Consent Form.

**Projects involving Vertebrate Animals:** Attach completed ISEF Form 5 (A and /or B)- Vertebrate Animal Form to show that the project is approved if needed, supervised by animal care expert.

**Projects involving Potentially Hazardous Biological Agents:** Attach completed ISEF Form 6A and/or 6B.

Regional SRC Approval: \_\_\_\_\_ Date: \_\_\_\_\_

**(REQUIRED IF ANY OF THE ABOVE MATERIALS ARE USED!)**

SRC Comments/Requirements:

\*KS Regional Science and Engineering Fairs require students to follow the ISEF Rules and Regulations. Detailed information can be found at <http://www.societyforscience.org/isef/primer/index.asp>

If the local committee has questions please contact one of the regional co-directors: Claire Overstake, [Claire.Overstake@usd411.org](mailto:Claire.Overstake@usd411.org) or Kim Ring, [kring@389ks.org](mailto:kring@389ks.org)

**Entry Form and Entry Fees are due Feb. 16, 2010. No Late Entries will be accepted.**

Submit projects to the regional SRC Committee by emailing them to Claire or Kim or faxing them to 620-583-8222 or 620-367-2571