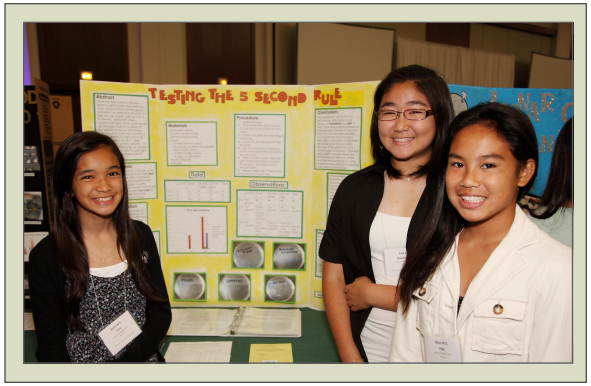


FORMS

Science Fair projects require many forms which help protect and keep safe the student and any subjects involved.

ALL RESEARCH PROJECTS require:

Entry Form Pages 1 & 2

Checklist for Adult Sponsor

Student Checklist 1A

Approval Form 1B (one per team member)

Research Plan

Abstract

Additional forms are required for projects using Human Subjects, Vertebrate, Potentially Hazardous Biological Materials and Hazardous Chemical, Activities & Devices. Use this ISEF site to verify what additional forms are needed.

www.apps.societyforscience.org/isef/students/wizard

JUNIOR DISPLAY PROJECTS require:

Entry Form Pages 1 & 2

Display Certification Form

Display Summary Form

USEFUL WEBSITES

www.soceityforscience.org/isef - complete rules, guidelines, & forms

www.hawaiiacademyofscience.org - dates, deadlines, forms

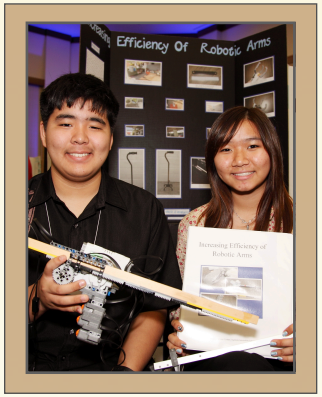
www.sciencebuddies.com - easy guide to project requirements with examples and suggestions

www.education.com/science-fair - project suggestions by grade level

Hawai'i Academy of Science
1776 University Avenue UA4-4
Honolulu, HI 96822
Ph. 956-7930 Fax 956-5183
acadsci@hawaii.edu
www.hawaiiacademyofscience.org

HAWAI'I ACADEMY OF SCIENCE

Science Fair Program Information



2013-14 CHANGES

1. HSSEF participants are asked to be present all day on Tuesday, April 1 - Judge Interview Day (8:30 a.m. - 4:00 p.m.) and Wednesday, April 2 for Public viewing and Awards Luncheon (8:30 a.m. - 2 p.m.)

2. Hawaii project registration is available on-line this season, please check with District Coordinator.

3. Optional: participant name may be placed on project display board.

ISEF RULE UPDATES

1. **Potentially Hazardous Biological Agents**
   - Students are prohibited from culturing CRE (Carbapenem Resistant Enterobacteriacae)
   - Added studies with microbial fuel cells to the list of PHBA studies requiring Form 3
   - Added the following studies to the list of PHBA studies exempt from SRC review
     - *Studies of mushrooms and amoebozoa (slime mold)
     - *Studies of water and soil not concentrated in media conducive to their growth

2. **Hazardous Chemicals, Activities or Devices**
   - Expanded guidance on use of Radiation

IS YOUR PROJECT SAFE?

The Institutional Review Board (IRB) and the Scientific Review Committee (SRC) ensure that projects are safe for student researcher(s) and those involved and around the project.

- *ALL projects need an initial review of an adult sponsor which is documented on Form 1 before experimentation. Determination for additional forms, required signatures will be made by adult sponsor who may be teacher, parent, scientist or university professor.*
- *ALL projects must be reviewed for ethical and safety protocols, receive approval and be signed off by the fair's SRC before fair competition.*

Committee Approval Process:

I. *IRB - Additional approval required PRIOR to experimentation of projects involving HUMAN SUBJECTS. IRB members: an educator, school administrator, health or social care professional (nurse, counselor, social worker, etc.)*

II. *SRC - Additional approval required PRIOR to experimentation of projects involving vertebrates, potentially hazardous biological agents and hazardous chemicals, activities and devices. SRC members: an educator, a biomedical scientist and at least one more member who is knowledgeable about research regulations.*

ISEF & HSSEF PROJECT DISPLAY FACTS

Maximum Project Display Size:

Depth: front to back - 30 inches (76 cm)

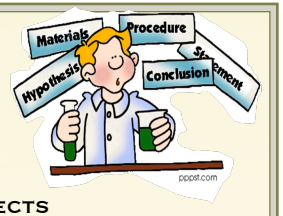
Width: side to side - 48 inchers (122 cm)

Height: bottom to top - 108 inches (274 cm)

•• Projects requesting floor placement will NOT have access to a table.

** ALL illustrations, charts, graphs, photographs need to be credited, even if it is your own work. Note: Some images are not allowed.

Project Information



Participants Guidelines

- Open to students in all public, public charter, independent and homeschool students in Gr. 6 - 12.

PROJECT GUIDELINES

- Project divisions are: Senior and Junior Research, Junior Display (Honolulu, Windward, Leeward District)
- Project Categories are:

Animal Science
Behavioral & Social Science
Biochemistry
Cellular & Molecular Biology
Chemistry
Computer Science
Earth & Planetary Science
Energy & Transportation
Engineering - Electrical/Mechanical
Engineering - Materials / Bioengineering
Environmental Management
Environmental Sciences
Mathematical Sciences
Medicine & Health Sciences
Microbiology
Physics & Astronomy
Plant Science

Category information at:
www.societyforscience.org/isef/project_categories

Safety & Display Regulations

There are rules about what can and can not be displayed, check this site for that information:

http://www.societyforscience.org/page.aspx?pid=314#notallowed

Types of Projects

Scientific Research Project - requires a hypothesis, an experiment with data collection, analysis and conclusions based on the data collected.

Engineering Research Project - requires designing, building and testing an idea or concept, or gathering data through field study observations.

Junior Display Project - Limited to 6 -8 graders ONLY. requires the demonstration or explanation of a science or engineering concept using information gathered from published sources. NO experimentation.

COMPETITION LEVELS

Level I: School Science Fair - Fairs are held at schools and projects selected move on to the District Science Fair

Level II: District Science Fair - Hawai`i hosts 10 District Science Fairs early in the calendar year. Recommended projects advance to Hawai`i State Science & Engineering Fair (HSSEF)

Level III: HSSEF - Hawai`i premier student science event with approximately 200 awards presented valued at more than $75,000. Outstanding senior research projects advance to international competition.

Level IV: ISEF - The International Science & Engineering Fair is held in the spring. More than 1700 students from around the world compete for awards that include four year college scholarships, internships and cash awards.