From Review to Approval: Navigating SRC

Trudi Skinner

TXSEF SRC & Display and Safety Chair

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Scan to play!





Students can begin surveying peers for their research project before receiving SRC/IRB approval.





Human participants can be used as part of the research project without signed informed consent/assent forms.





Students can use publicly available, de-identified human data (like from government health databases) without SRC/IRB approval. (Yes, because it is considered exempt — no identifiable information is involved.)





Students can make minor changes to their research plan after SRC approval without submitting an amendment.





Students are allowed to conduct an engineering project at home, such as designing and testing a prototype, as long as safety precautions are followed.





Students can conduct projects with common bacteria or small blood samples at home.

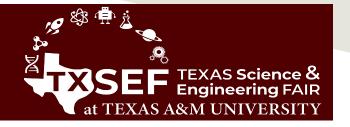


Objectives:

- Look at what is new in SRC and Display and Safety for the 2026 fair season
- Discuss most common SRC "oopsies"
- Identify Form Fouls
- Demonstrate the SRC Process by looking at some project scenarios



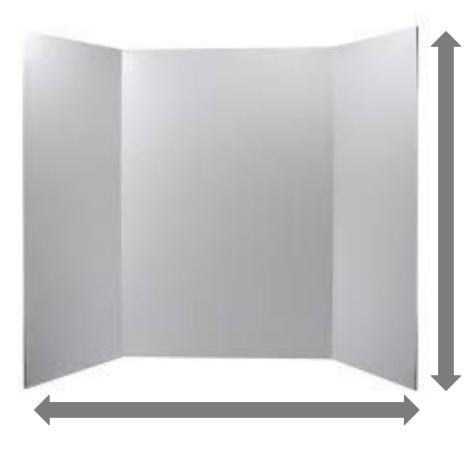
Display and Safety: Board Height



ISEF height = 240 cm (94.4 in) **TXSEF** table height = 76.2 cm

(30 in)

Depth: 76 cm (30 in)



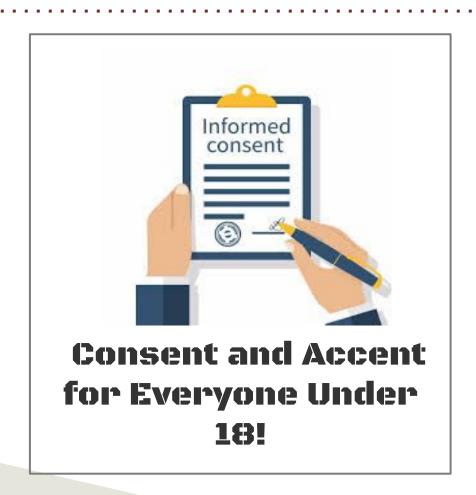
163.8 cm (64.4 in)

122 cm (48 in)

Human Participants



IRB= Internal Review Board





If using a facility, must get written consent from the facility and parents.

ISEF Rules

Vertebrate Animals





Cephalopods are to be treated as animals.

Regarding Fishing Not Mowed: Barbed Hooks Live Ball Electrofish

Potentially Hazardous Biological Agents



BSL-2:

- procedures must be followed for the duration of the experiment and stated in research plan.
- Algae bloom water = BSL-2
- Arthropod vector-borne pathogens (Malaria, Lyme, ect.) = BSL-2

Prions Not Allowed:

- Amyloid-b (Ab)
- amyloid fibris
- tau
- a-synuclein
- transactive response
 DNA-binding of 43 kDa

C. elegans and Drosophila are permissible but in BSL-2 lab.

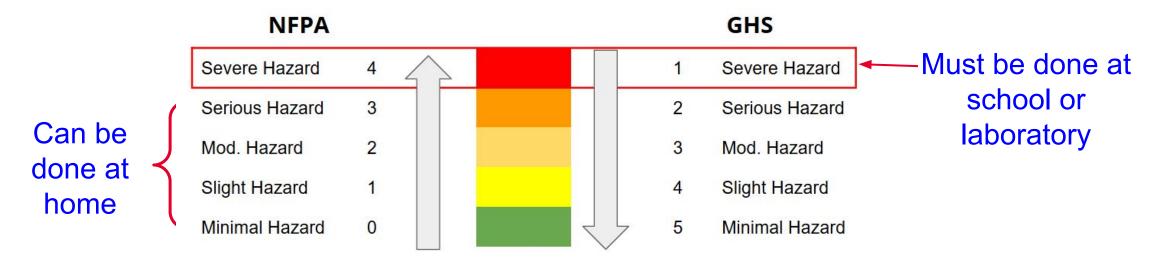
ISEF Rules

Hazardous Chemicals, Activities or Devices



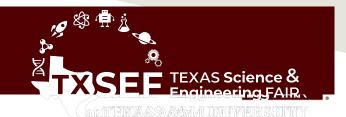
National Fire Protection Association

Globally Harmonized System



- Home setting = still must follow all SDS procedures
- Any utensils/cookware used for experiment can not be reused for food
- Direct supervisor must be trained when chemicals are involved
- Follow all SDS instructions for use and disposal

New Rules for 2026



Hazardous Chemicals, Activities, or Devices:

- Rules regarding chemical use has been added
- Projects using chemicals with a Globally Harmonized System of Classification and Labelling of Chemicals (GHS) safety rating of 1 or National Fire Protection Association (NFPA) safety rating of 4 must be conducted in a school, laboratory or RRI setting.
- Projects conducted with chemicals of a GHS rating of 2-5 may be done at home, school, or RRI if the chemical is used as intended.
- If chemical of GHS rating 2-5 is not being used as intended (i.e. mixed, increased temperature, use of large volumes, etc.) must be conducted in school or RRI.
- Always remember the following when using chemicals:
 - a. Projects in a home setting must follow standard lab practices for chemical handling, safety, ventilation, and specific disposal procedures used as outlined in the Safety Data Sheets (SDS).
 - b. Any cookware, utensils, and/or equipment used during the experimentation cannot be reused for food preparation.

 | ISEF Rules |





Can be used to:

- compile data
- coding
- etc.

Cannot be used to:

 Write any portion of the Research Plan/project

If used:

Must state in procedures where/how it was used Cite in bibliography in APA format

Good practice to have students print and have accessible the Al transcript in the event they are asked by a judge.

Image and Graph Citations

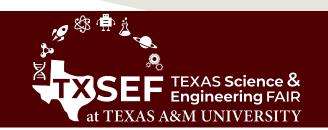


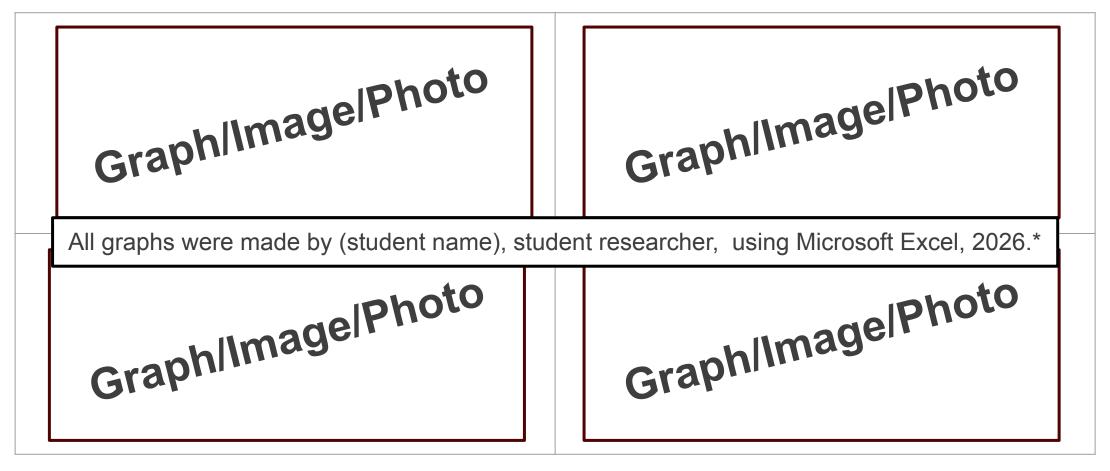
Citation Examples

- Graphs made by student:
 The graphs (or tables) were created by (student name), student researcher using (insert the program/software used), 2026.
- Images show progression:
 Pictures 1-(however many) show progression and were taken by (student name), student researcher, 2026.
- If all images come from the internet and are from a journal article, then use citation protocol from a
 journal article, not image.
- Image made by student:
 Image was created by (student name), student researcher using (state the program), 2026.
- Image from internet:
 APA format, needs to be more specific than "Google images"
- Images/photos can be number/lettered and then cited all together on another location on the board.
- Must use font size that is large enough and easy to read.

ISEF Rules

Image and Graph Citations: Example 1





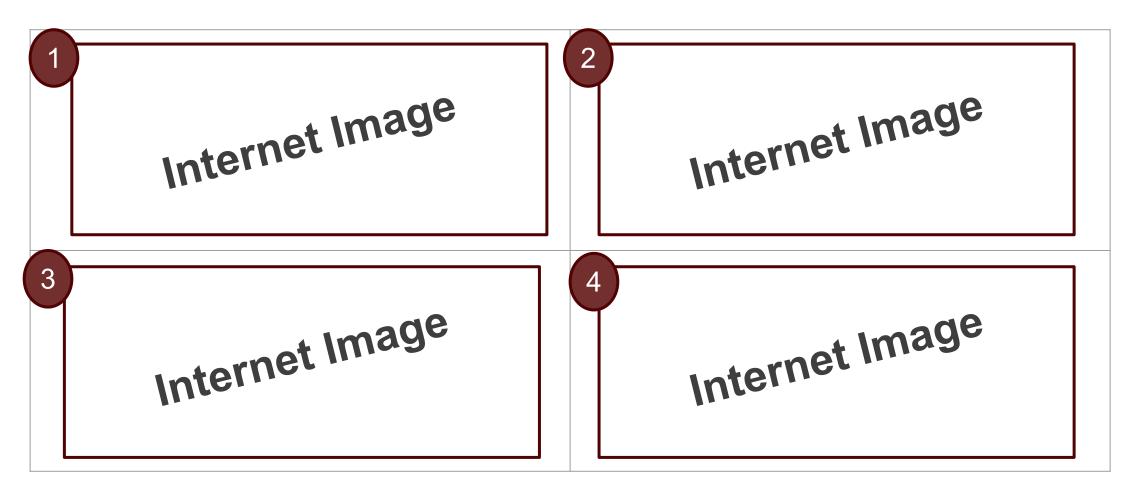
^{*}All images were created by (student name), student researcher, using Canva, 2026.

*All photos were taken by (student name), student researcher, 2026.

*ISEF Rules

Image and Graph Citations: Example #2





1: APA format Citation

2: APA format Citation

3: APA format Citation

4: APA format Citation

ISEF Rules





Most Common SRC "Oopsies"

- Opening unknown bacteria dishes: Students may culture bacteria collected from surfaces, but the plates must remain sealed (taped shut) for the entire experiment, including during disposal, to stay within BSL-1 guidelines. If the plates are opened at any point, the work is considered BSL-2 and must be conducted in a BSL-2 laboratory.
- Human participant: If a student researcher collects data about themselves or includes themselves in the study, it is still considered a human participant study.
- **IRB Conflict:** A researcher's teacher cannot serve on the IRB for their project; it must be reviewed by someone else to ensure objectivity.
- Signatures: Make sure all paperwork has the correct signatures and are properly dated.



ĀM

Review Order

- 1. Abstract
- 2. Research Plan
 - a. Separate Materials and Procedures
 - b. Specific amounts should be used when referred to chemicals
 - c. Safety precautions and disposal procedures should be stated
 - d. Determine what other forms are needed
- 3. Check those forms thoroughly





Abstract

- ISEF is making slight changes that have not been released yet
- Stay tuned!

Jr. Division

Prior to: date before experimentation start date

Safety and Consent Form

Texas Middle School Science Fair Students (Junior Division)

Texas middle School Science Fair Students (Julior Division)					
Student and Project Inform	nation				
First Name	# of Participants:	Grade	District School		
3			Teacher Name Teacher Email		
Project Title:					
Certain projects require additional consistency our project. Some projects may be subjapply only the science teacher signature. Human Test Subjects (Example: sur If you are working with humans of ANY a Registered Nurse to make sure your reserview, if it is determined that there is not the participants and written parental concequired Signatures: Science Teacher, Stouse must be attached. Non-Human Vertebrate Animals Experiments involving laboratory animal studies on pets. Proper animal care must discomfort are prohibited. Experiments project. Behavioral studies or suppleme Required Signatures: Science Teacher A Detentially Hazardous Biological All Biosafety Level 1 projects can be pet used and all hazardous agents must be provided to the supplementation of the supplemen	ject to multiple restrictions. If any of is required. <u>Before</u> beginning expresses, taste tests, play a game or interage, you need PRE-approval from a search is safe. This includes the studence than minimal risk to the human mosent for students under 18 years behoof Administrator, AND a Psychological Sciential Marchael School Administrator, AND a Psychological Sciential nutritional studies involving pe ND a Veterinarian or other Biomed IAgents (Bacteria, Mold, Fungl, Viruserformed in a school laboratory. BAP oroperly disposed of at the end of expression of the second of	of these restrictions ap erimentation, you will it with another human in. Science Teacher, Scho dent researcher particip in subjects involved in to old if required. ologist, Medical Docto et al., gerbils, rabbits, etc.), gerbils, rabbits, etc.), gerbils, rabbits, etc.), gerbils, rabbits, etc.) et al., gerbils, rabbits, etc.) etc., gerbils, rabbits, etc., gerbils, etc., ge	oly to your project, check need to obtain any addition any way) ol Administrator, AND a Fasting in the experiment on the project, the student minder, or Registered Nurse. A cannot be conducted in a stations. Experimental proceeds the of any animals due to end t	the box for that area. If no nal signatures listed in the sychologist, Medical Doc or testing their product. Drust receive written conservations of the surveys or testing their product of the surveys or the surv	no restrictions he restrictions. ctor or uring the nt from each of est you intend or behavior ssary pain or ualify the ly fluids, etc.) ces must be sist or a trained
☐ Hazardous Chemicals, Substance Students must adhere to federal and sta with hazardous substances or devices m Required Signatures: Science Teacher A Projects Involving Human Test	ate regulations governing hazardous nust follow proper safety procedures AND a Direct Supervisor or Qualifie	s substances or devices s for each chemical or o d Scientist (the adult n	An adult must directly solution in the research in the research	upervise experiments. St h.	
(may require add'l paperwork) Consent forms are required for a Parental consent forms required under 18. Consent forms are not required if the age of 18.	Il participants.	Scientist, Veterina Name:	rian (Not teacher or pa		
School Administrator APPROVA (required for ALL projects with hum	AL (Not teacher or parent)	Signature/Date:		Phone:	
I have reviewed and approved this sprior to experimentation.	student's research plan	Institution/Posit	on:		



A copy of the survey or test must be

★ attached in STEM Wizard under Additional File.

Not teacher or parent

Jr. Division

Student Name(s):			
Project Title:			
Direct Supervisor or Qua	alified Scientist		
	rvisor when working on a project that involves o	ontrolled substances or hazardous	rhemicals
	a parent or guardian, a teacher, or a laborator		
	an and understand all safety requirements.	,,	
	echniques to be used by this student prior to the st		
	sion and take responsibility for the safety of my stu I make sure that only the student's work will be pre		
- I will review the project and	make sure that only the student's work will be pro	sericed by the student at the rail.	
pirect Supervisor's Name	Email or	phone	
ignature	Date		
eacher APPROVAL (required for A	LL projects):		
	ident's research plan <i>prior to experimentation and</i>	certify that it will comply with all the	experimental ru
f the Texas Science & Engineering Fa	ir.		
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eacher Signature	Date	Phone	
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→ Prior to: date before experimentation start date

Jr. Division: Parent Consent? Minor Assent Template

SAMPLE ONLY! Make a copy to edit. Human Informed Assent/Consent Texas Middle School Science Fair Students (Junior Division)				
Student Researcher(s): Title of Project:				
Hi! I'm working on a science fair project and would like your help. Please read this form with your parent or guardian. It explains what I'll be doing in my project and what I'll be asking you to do. If you agree to participate, please sign at the bottom.				
About My Project Why I'm doing this project: (Write your project purpos	e in simple words.)			
What you'll be doing if you participate: (Explain the a	activity, survey, experiment, etc.)			
How long it will take: (Example: "About 10 minutes.")				
Are there any risks or things to watch out for?: (Example: "Increase in heart rate or breathing rate due to exercise"				
How your privacy will be protected: (Example: "Your project.")	answers will stay private. I won't use your name in my			
Questions? If you or your parent/guardian have any questions, you Adult Sponsor/Teacher:				
Your Participation is Voluntary You don't have to participate if you don't want to, and you can stop at any time. You don't have to answer anything you're uncomfortable with.				
Sign below if you agree to help me:				
Participant Assent:	Date Reviewed & Signed:			
Research Participant Printed Name	Signature			
Parental/Guardian Permission: (if applicable)	Date Reviewed & Signed:			
Parent/Guardian Printed Name Signature				



Every human participant must have one of these.

Form 1

Checklist for Adult Sponsor (1)

This completed form is required for ALL projects.

To be completed by the Adult Sponsor in collaboration with the student researcher(s):

_				
have reviewed the student's co	ompleted Student Checklist (1A) and Research Pl	an/Project Sumr	mary.
I have worked with the student	and we have discussed the p	ossible risks involve	ed in the project.	65
The project involves one or mo Humans Vertebrate Animals		res prior approval by tentially Hazardous Microorganisms		
			1)	empleted experiment)
	signed inventions/prototypes 4) or appropriate Institutiona	. (Requires prior application)	proval by an Inst	
	nt Form (when applicable an) (when applicable and/or rec		e IRB)	
Vertebrate Animal Form (5i Use Committee (IACUC) ap Qualified Scientist Form (2 Potentially Hazardous Biologie Potentially Hazardous Biologie Human and Vertebrate Ani	A)-for projects conducted in B)-for projects conducted at proval required prior experin) (Required for all vertebrate cal Agents (Requires prior ap gical Agents Risk Assessmer mal Tissue Form (6B)-to be c	a school/home/field a Regulated Resean nentation.) animal projects at a proval by SRC, IACL at Form (6A) completed in additio	ch Institution. (Ir regulated resea JC or IBC, see ful on to Form 6A wh	nstitutional Animal Care and rch site or when applicable)
Qualified Scientist Form (2 The following are exempt f similar microorganisms, fo	rom prior review but require r projects using manure for c	a Risk Assessment F omposting, fuel pro	orm 3: projects duction or other	involving protists, archae and r non-culturing experiments, ving decomposing vertebrate
Hazardous Chemicals, Activiti Risk Assessment Form (3) Qualified Scientist Form (2)	es and Devices (No SRC prio 2) (required for projects invol-	150		
Other Risk Assessment Form (3)				
attest to the information che-	cked above and that I have re	ead and agree to ab	oide by the scien	ce fair ethics statement.
dult Sponsor's Printed Name	Signature		Date of I	Review (mm/dd/yy)
hone	Email			
ge 30	International Rules: G	Suidelines for Science and	d Engineering Fairs 20	025-2026, societyforscience.org/ISE



Other forms are required if anything is checked in #4 or the bottom half of this form.

Form 1B

This must be signed if the student's project requires SRC or IRB approval (Forms 4, 5A, or 6A) and the student did not work at a regulated research institution (RRI).

Approval Form (1B)

A completed form is required for each student, including all team members.

To Be Completed by Student and Parent a. Student Acknowledgment: I understand the risks and possible dangers to me of the proposed research plan. I have read the ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research. · I have read and agree to uphold all aspects of the student researcher ethics statement. Student researchers are expected to maintain the highest standards of honesty and integrity. Scientific fraud and misconduct are not condoned at any level of research or competition. Such practices include but are not limited to plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudulent projects will fail to qualify for competition in affiliated fairs and ISEF. Student's Printed Name Date Acknowledged (mm/dd/yy) Signature (Must be prior to experimentation.) b. Parent/Guardian Approval: I have read and understand the risks and possible dangers involved in the Research Plan/Project Summary. I consent to my child participating in this research. Parent/Guardian's Printed Name Date Acknowledged (mm/dd/yy) Signature (Must be prior to experimentation.) 2. To be completed by the local or affiliated Fair SRC (Required for projects requiring prior SRC/IRB APPROVAL. Sign 2a or 2b as appropriate.) a. Required for projects that need prior SRC/IRB approval Required for research conducted at all Regulated BEFORE experimentation (humans, vertebrates or Research Institutions with no prior fair SRC/IRB potentially hazardous biological agents). is project was conducted at a regulated research institution The SRC/IRB has carefully studied this project's Research Plan/ (not home or high school, etc.), was reviewed and approved Project Summary and all the required forms are included. My by the proper institutional board before experimentation and signature indicates approval of the Research Plan/Project complies with the ISEF Rules. Attach (1C) and any required Summary before the student begins experimentation. institutional approvals (e.g. IACUC, IRB). SRC/IRB Chair's Printed Name SRC Chair's Printed Name Signature Date of Approval (mm/dd/yy) (Must be prior to experimentation.) Date of Signature (mm/dd/yy) (May be after experimentation) Signature 3. Final ISEF Affiliated Fair SRC Approval (Required for ALL Projects) SRC Approval After Experimentation and Before Competition at Regional/State/National Fair I certify that this project adheres to the approved Research Plan/Project Summary and complies with all ISEF Rules.

This must be signed if the student worked at a regulated research institution (RRI), and the RRI was responsible for reviewing and approving the project before experimentation.



Signature

Regional SRC Chair's Printed Name

(where applicable)

State/National SRC Chair's Printed Name

Date of Approval (mm/dd/vv)

Date of Approval (mm/dd/yy)

Form 4

#4-6 have changed

Human Participants Form (4)

Required for all research involving human participants not at a Regulated Research Institution.

If at a Regulated Research Institution, use institutional approval forms for documentation of prior review and approval. (IRB approval required before recruitment or data collection.)

MUST BE COMPLETED BY STUDENT RESEARCHER(S) IN COLLABORATION WITH THE ADULT SPONSOR/DIRECT SUPERVISOR/QUALIFIST: 1. I have submitted my Research Plan/Project Summary which addresses ALL areas indicated in the Human Participants Section of tresearch Plan/Project Summary Instructions. 2. I have attached any surveys or questionnaires I will be using in my project or other documents provided to human participants. Any published instrument(s) used was /were legally obtained. 3. I have attached an informed consent that I would use if required by the IRB. 4. Yes No Are you working with a Qualified Scientist? If yes, attach the Qualified Scientist Form 2. BELOW — IRB USE ONLY MUST be completed by Institutional Review Board (IRB) after review of the research plan. All questions must be answered for the approval
MUST BE COMPLETED BY STUDENT RESEARCHER(S) IN COLLABORATION WITH THE ADULT SPONSOR/DIRECT SUPERVISOR/QUALIFISCIENTIST: 1. I have submitted my Research Plan/Project Summary which addresses ALL areas indicated in the Human Participants Section of t Research Plan/Project Summary Instructions. 2. I have attached any surveys or questionnaires I will be using in my project or other documents provided to human participants. 3. I have attached an informed consent that I would use if required by the IRB. 4. Yes No Are you working with a Qualified Scientist? If yes, attach the Qualified Scientist Form 2. BELOW – IRB USE ONLY MUST be completed by Institutional Review Board (IRB) after review of the research plan. All questions must be answered for the approval valid. (If not approved, return paperwork to the student with instructions for modifications.) Approved with Full Committee Review (3 signatures required) and the following conditions: (All 6 must be answered)
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Risk Level (check one): Minimal Risk More than Minimal Risk
2. Qualified Scientist (QS) Required (Form 2): Yes No
Risk Assessment Required (Form 3): Yes No
Written Minor Assent and written parental permission required for minor participants: Not applicable (No minors in this study)
Written Informed Consent required for participants 18 years or older:
Yes No Not applicable (No participants 18 yrs or older in this study)
Facility for "protected groups" used, written approval has been obtained: Yes No
IRB SIGNATURES (All 3 signatures required) None of these individuals may be the adult sponsor, direct supervisor, qualifie scientist or related to (e.g., mother, father of) the student (conflict of interest).
I attest that I have reviewed the student's project, that the checkboxes above have been completed to indicate the IRB
determination and that I agree with the decisions above.
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A copy of the survey or test must be attached in STEM Wizard under Additional File.

Form 6A

Potentially Hazardous Biological Agents Risk Assessment Form (6A)

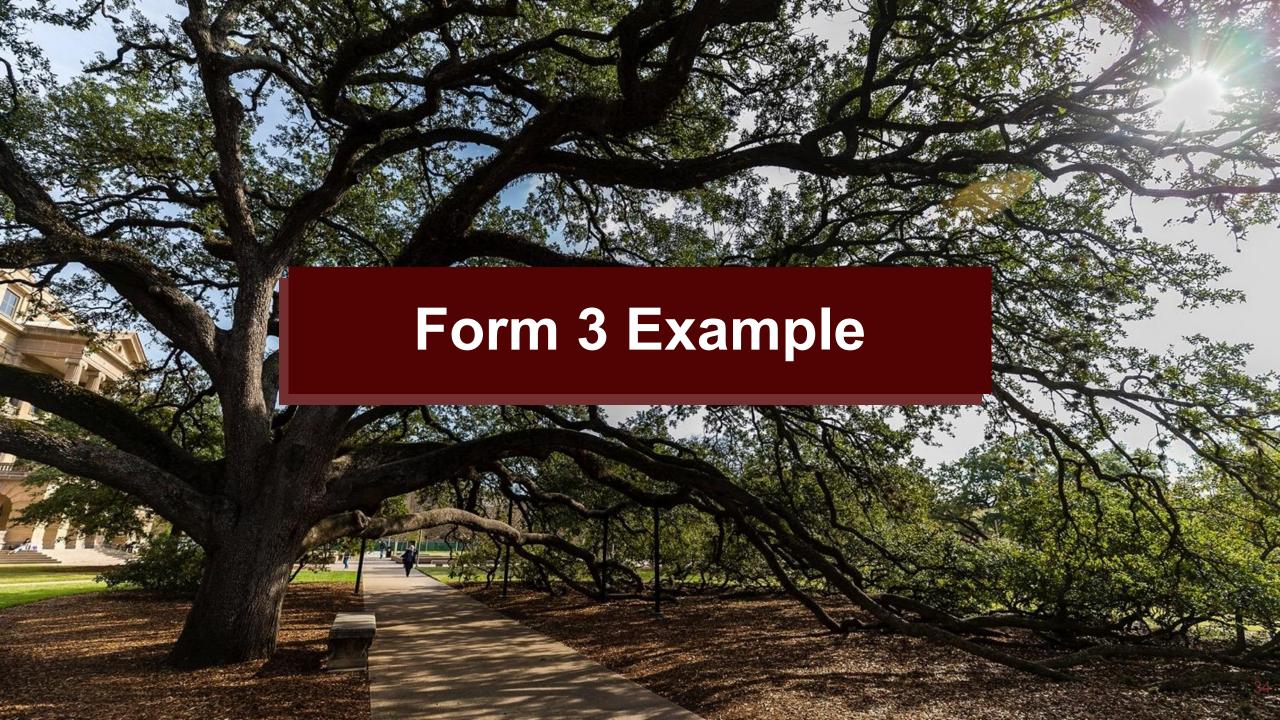
Required for research involving microorganisms, rDNA, fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.

SRC/IACUC/IBC approval required before experimentation.

St	udent's Name(s)	
Tit	tle of Project	
	be completed by the QUALIFIED SCIENTIST/DIRE I questions are applicable and must be answered;	CT SUPERVISOR in collaboration with the student researcher(s). additional page(s) may be attached.
	ECTION 1: PROJECT ASSESSMENT Identify potentially hazardous biological agents to be and the biosafety level risk group of each microorgan	e used in this experiment. Include the strain, source, quantity nism.
2.	Describe the biosafety level of the experimentation s	ite.
3.	Describe the procedures that will be used to minimiz	re risk (personal protective equipment, safety cabinet type, etc.).
4.	Describe the method of disposal of all cultured mate If BSL-2 laboratory, not at an RRI, include the BSL-2 c	rials and other potentially hazardous biological agents.
	ECTION 2: TRAINING What training will the student receive for this project	?
2.	Experience/training of Direct Supervisor as it relates	to the student's area of research (if applicable).
	r Direct Supervisor - Check the appropriate box(es) b ☐ Experimentation on the microorganisms/cell lines, Regulated Research Institution, but will be conduc of the <u>checklist for BSL-2</u> . [This study has been re prior to experimentation.]	/tissues to be used in this study will NOT be conducted at a cted at a (check one) BSL-1 or SSL-2 laboratory (include a copy viewed by the local SRC and the procedures have been approved esistant Organisms (MDROs). It has been conducted in a BSL-2
	Research Institution and was approved by the app approval forms are attached. Origin of cell lines:	/tissues to be used in this study will be conducted at a Regulated propriate institutional board prior to experimentation; institutional Date of IBC/IACUC approval /tissues to be used will be conducted at a Regulated Research Institution, this type of study.
c	CERTIFICATION - To be SIGNED by the QUALIFIED SCI	
TI	he QS/DS has seen this project's research plan and suppo	orting documentation and acknowledges the accuracy of the information one) BSL-1/BSL-2 study, and will be conducted in an appropriate
Q	S/DS Printed Name Signature	Date of review (mm/dd/yy)



____ Checklist attached in Additional Files



Form 3

Risk Assessment Form (3)

Must be completed before experimentation; recommended for all projects. May be required for projects involving Human Participants, Hazardous Chemicals, Materials or Devices or Potentially Hazardous Biological Agents.



Student's Name(s) Elias Navarro

Title of Project The Effect of Concentration on the Rate of reaction Between Hydrochloric Acid and Magnesium

To be completed by the Student Researcher(s) in collaboration with Direct Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

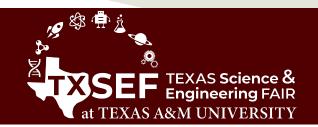
- 1. Identify and assess the risks and hazards involved in this project.
 - Hydrochloric Acid GHS 2, NFPA 0; Magnesium Ribbon GHS 1, NFPA 4; Hydrochloric acid (HCI) is corrosive and can cause burns or irritation if it contacts skin or eyes. Reaction produces hydrogen gas, which is flammable. Use of glassware introduces risk of cuts from breakage. Magnesium ribbon may ignite if exposed to open flame.
- a) List all hazardous chemicals, activities or devices to be used; b) identify and list all microorganisms to be used that are exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
 - a) 100 mL Hydrochloric acid (1.0 M, dilute). 10 g Magnesium ribbon (solid metal strips). Standard laboratory glassware (test tubes, beakers, graduated cylinders).
 b) None
- Describe the safety precautions and procedures that will be used to reduce the risks. If you conducted field work, include permits received and safety plans, as applicable.
 - Wear goggles, lab coat, and gloves at all times when handling chemicals. Conduct experiment in a well-ventilated area or fume hood. Keep hydrogen gas away from flames or sparks. Neutralize acid spills immediately with sodium bicarbonate solution. Handle glassware carefully; dispose of broken glass in designated container. Teacher supervision will be provided throughout experimentation.
- 4. Describe the specific disposal procedures that will be used (when applicable).
 - Neutralize leftover hydrochloric acid with sodium bicarbonate before disposal. Magnesium residues will be collected and disposed of in solid waste according to school lab protocols. Glassware will be rinsed and cleaned with water in designated lab sinks.
- 5. List the source(s) of safety information.

Safety Data Sheet (SDS) for Hydrochloric Acid (Fisher Scientific) Safety Data Sheet (SDS) for Magnesium Metal Flinn Scientific Laboratory Safety Guidelines

Teacher-provided school laboratory safety contract



SRC Practice



ISEF Website for Rules:



ISEF Forms:





A student collects water from a local pond to test for microbial growth due to eutrophication. They plate the samples on nutrient agar, incubate them for several days, and plan to compare colony growth from different pond locations (near a dock, near runoff from a golf course, and in open water).

Form 6A: PHBA Risk Assessment

Form 2: Qualified Scientist

Form 3: Risk Assessment



A student wants to see whether lemon juice, vinegar, and salt can slow bacterial spoilage on raw chicken muscle tissue. They purchase chicken breast from a grocery store, cut it into small samples, apply the preservatives, and observe microbial growth over time by plating swabs from the tissue onto agar.

Form 6A - PHBA Risk Assessment

Form 3 - Risk Assessment

Form 2 - Qualified Scientist



A student wants to test how 15 minutes of jogging affects blood glucose levels in teen volunteers. Participants agree to have a small amount of blood drawn with a finger prick both before and after exercising. The student plans to compare glucose levels using a glucometer.



Form 4 - Human Participant From Human Informed Consent Form 6A - PHBA Risk Assessment

Form 3 - Risk Assessment

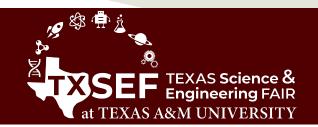
Form 2 - Qualified Scientist



A student wants to test the fan blade shape in CAD, run Computational Fluid Dynamic simulations, then 3D-print prototypes to test on a fan to analyze airflow patterns, drag, and lift forces.

No forms needed.

Q&A Time







Trudi Skinner
Spark! TAMU Engineering
txsef_src@tamu.edu



Session Feedback

How helpful was this session?





TEXAS A&M UNIVERSITY

Engineering

THANK YOU