

TEXAS REGIONAL SCIENCE FAIR

Celebrate the **16th** Anniversary of the Texas Regional Science Fair sponsored by **I.C.A.R.E.!**
The big date is Saturday, March 24, 2012 at Tomball College Beckendorf Conference Center.
Registrations must be received by Friday, February 24th, 2012. Late registration ends March 2nd, 2012.

Enclosed you will find: 1) registration form - 3 pages; 2) science fair rules; 3) a suggested time schedule; 4) project guide sheet; and 5) a point system evaluation to be used as the basis for judging each project.

Our goal is to encourage students to be excited as to what they learn about God's creation and to desire to continue their quest for knowledge. For this reason, every exhibitor will receive a ribbon and a certificate. The ribbons to be awarded are: 1st (blue), 2nd (red), 3rd (white). All students will also receive a participant ribbon (green). In honor of exhibitors that have excelled, each grade division will have an award ribbon for Grand Champion (highest points), Reserve Grand Champion (2nd highest points), Best Display, Best Interview, and Most Original. (Grade divisions may vary depending on the number of participants. Generally the divisions are: K-3rd, 4th-6th, 7th-9th, 10th-12th)

The first thing in this packet is the most important - your student's registration! There are three pages. We only need one family page and photo release page, but we need one exhibitor registration page per student, so please copy it if you have more than one child participating. Teams are limited to 2 members and need to pay special attention to Rule #12. Please make sure to write legibly.

After registering, please send us an email with REGISTRATION on the subject line. All updates and confirmations are sent via email and this makes sure we have your correct address. If you do not have access to email or you cannot receive attachments, please make note of that on the registration.

We also offer a couple of resources to assist your family in preparing for the fair. **First**, on Saturday, **January 28, 2012** we are presenting a hands-on workshop that will take your family from start to finish through the steps of doing a project. It is held at the same location as the fair. Fees are \$15/family with an optional boxed lunch & a drink from Chick-fil-A at \$8.50/person. If you are interested in attending, please visit our website for details & a registration form. **Second**, for students registering that do not go to the workshop, the workbook used at the workshop is being offered for 50% off with free shipping. Some of the items covered by this helpful guide range from what is a project, picking a perfect project, scientific method, elements of setting up your display board, pointers on your report and journal, and some additional resource sites. These helps will assist students and parents who do not know where to start or who want some extra guidance and ideas. The previous year's workbook is available for a free download. Due to its size, it will take a moment to download. If you prefer to receive a hard copy by mail, please order at the time of registering.

The fair is scheduled from 8:00 am - 3:30 pm. A final schedule of events & directions to the fair location will be *emailed* prior to the event. If you do not have confirmation by Sat., March 3, please contact us (late registration by March 10).

SCIENCE FAIR LOCATION: ***Tomball College Beckendorf Conference Center – Enter at the north entrance.***

30555 Tomball Parkway
Tomball, Texas

FEES:

Registration	\$15.00 / student (No refunds after deadline)
Late Registration	\$20.00 / student
Science Fair Workshop Workbook	\$ 6.00 (includes postage)

Please make your check payable to TRSF.

Keep learning about God through His creation!
Happy Learning!

Order Lunch!!

In order to offer a healthier lunch, we are offering a boxed lunch (sandwich or nuggets, chips, fruit, brownie) with a drink from Chick-fil-A for \$9.00. Lunches will need to be pre-ordered.

See insert with lunch info!!

In Christ,

Karen Garza, TRSF Administrator

texasregionalsciencefair@yahoo.com

Website – www.texasregionalsciencefair.com

LAST NAME: _____

Number of lunches ordered: _____

TEXAS REGIONAL SCIENCE FAIR

Boxed Lunch Order Form

Lunch can be ordered for the day of the fair!!

- Place your order by filling out this form and returning it with your registration and fees.
- Lunch fee and registration fee can be paid with one check made out to TRSF.
- **Lunch tickets will be given at check-in to present at the concession stand to receive your lunches.**
- Ice tea (sweet or regular) will be available to drink. A cup will be provided to serve yourself your drink. *One cup per person until all have been served.*
- The concession stand will have additional drinks and snacks available for purchase on the day of the event.

Boxed Lunch Description:

Boxed lunches will be catered by Chick-fil-A of Tomball!

Choice of a chicken sandwich (no pickle) or 8-piece nugget, accompanied by chips and fresh fruit, completed with a brownie. A drink is included. Ice tea (sweet or regular) will be the drink choices.

Please indicate your order below.

<u>Type of boxed lunch</u>	<u>Quantity</u>		<u>Unit Cost</u>		<u>Price</u>
Chicken Sandwich	# _____	X	\$9.00 / person	=	\$ _____
Nuggets	# _____	X	\$9.00 / person	=	\$ _____

Total Fee (Made out to TRSF – *One check can be used for all fees.*) \$ _____

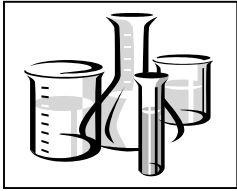
FAMILY'S LAST NAME: _____

TEXAS REGIONAL

SCIENCE FAIR

Saturday, March 24, 2012

Tomball College



Registration Deadline: Fri., February 24, 2012

Late Registration Deadline: Fri., March 2, 2012

FAMILY PAGE INFORMATION

(1 family page form per family)

PARENTS' NAME(S) (BOTH): _____

STUDENT'S NAME(S):

- | | | | |
|----------|------------|------------|--------------|
| 1. _____ | M/F: _____ | Age: _____ | Grade: _____ |
| 2. _____ | M/F: _____ | Age: _____ | Grade: _____ |
| 3. _____ | M/F: _____ | Age: _____ | Grade: _____ |
| 4. _____ | M/F: _____ | Age: _____ | Grade: _____ |

MAILING ADDRESS:

Street _____
 City & State _____ Zip _____

EMAIL ADDRESS: (PLEASE SEND AN EMAIL TO US, SO WE CAN VERIFY YOUR EMAIL.)

Please print clearly. All correspondence will be sent via email.

TELEPHONE NUMBER(S): _____

FEES: (No refunds after deadline.) (Late)
 Number of students _____ X \$15.00 (20.00)= _____
 Workshop Workbook + \$ 6.00 = _____
 Lunches Ordered: _____ X \$ 9.00 = _____
TOTAL: (Checks made payable to TRSF) = _____

Mail to:
 TRSF
 ATTN: Karen Garza
 P.O. Box 730
 Tomball, TX 77377

Contact Information:
 Karen Garza
texasregionalsciencefair@yahoo.com

Confirmation will be sent by email no later than March 20.

Participation in the TRSF constitutes your family's agreement to hold TRSF, ICARE, BACHEN, Tomball College (or alternate facility), or any of their affiliates, sponsors, or representatives harmless and free of any and all liability for damage, injury, or loss of/to property or person. You also agree that you have read and understood all rules and will follow them accordingly for the exhibitor(s) and exhibit(s) entered.

Parent Signature: _____ Date: _____
 (The application cannot be processed without a signature & date.)

TRSF is excited to promote to the home school community what is available and what to expect when participating in our fair. In an effort to do this, photos are the best means to do so. If names are used, only first names will be utilized. Please indicate your consent for us to use pictures taken of your student(s) and of your family in our group settings. Should you decline, we will only use pictures of the exhibit and for our group settings, we will blot out your faces, which takes a great deal of volunteer time and takes away from the effect of the picture, so please consider assisting us in getting the word out with your consent.

NOTE: We reserve the right to be able to publish pictures of winners in local newspapers & on our web site. Should a student be awarded a specialty ribbon or prize, such as, but not limited to Grand or Reserve Champion, Best Display, Most Original, Best Interview, or Science Quest Award, your denial to use photos is waived. If this is not acceptable, please do not enter.

PHOTO / VIDEO RELEASE FORM

Please circle. **NOTE:** If not circled and this section is signed, it is understood to imply YES.

YES, I do or **NO, I do not** hereby give permission for images of my child(ren) registered as an exhibitor(s) and of my family, captured during participation in the Texas Regional Science Fair (TRSF) through video, photo, and digital camera, to be used solely for the purposes of TRSF promotional material and publications, and waive any rights of compensation or ownership thereto.

Name of Participant(s) (please print):

Name of Parent/Guardian (please print):

Parent/Guardian's Signature:

Date:

EXHIBITOR REGISTRATION

EXHIBITOR'S LAST NAME: _____

If in a team, Team Member Name: _____

(1 exhibitor registration form per student)

LAST NAME: _____ **FIRST NAME:** _____

M / F: _____ **AGE:** _____ **GRADE:** _____

**** NOTE:** A written report and journal are required for 5th - 12th grades.

We encourage 4th graders to submit them; however, it is optional.

If you have a 4th grader, please check the following:

**** 4th Graders' Option: Report and Journal:** _____ **Yes** _____ **No**

The above selection determines what score sheet is used to judge the exhibit.

TITLE OF PROJECT: _____

Please Fill Out Title: We need this for the program & placard for your exhibit table.

FOUR CLASSIFICATIONS OF PROJECTS:

A science fair project is not a research paper or book report or presentation of facts. A scientific principle is researched, then something is built or an experiment is performed in order to demonstrate this principle. What was done and learned is then communicated at the fair with a display, board, report and journal (see *above note*), as well as an interview.

1. **COLLECTION** – A collection of science related items, which are scientifically categorized and labeled accurately. (ie. rocks, butterflies)
2. **MODEL / DEMONSTRATION** – Non-experimental project that represents what something is realistically like (model) or demonstrates a scientific principle by showing how something works with action (demo). Must relate to science. (ie. an ear, a rocket, working heart model, working volcano)
3. **EXPERIMENT** – Follows the scientific method while answering a question using a hypothesis as the basis for the experiment. It must have a control.
 - a. **PHYSICAL** – An experiment related to/with *non-living* things.
 - b. **BIOLOGICAL** – An experiment related to/with *living* things.

CLASSIFICATION OF PROJECT: _____

(Based on above information.)

BRIEF EXPLANATION OF WHAT WILL BE DONE:

1. **OBJECTIVE:** _____

2. **OVERVIEW OF PROCEDURE:** _____

Please review all rules to make sure your exhibit complies with TRSF guidelines. Pay particular attention to # 6, 7, 9, and 10.

Note: if you plan to participate as a 2-member team, see rule #12.

TEXAS REGIONAL SCIENCE FAIR RULES

We truly want student's projects prepared from their desire to learn and to convey what they have discovered about God's creation through their investigations and research.

We are not looking for the student, who can dazzle the judges with pizzazz, or the best computer generated or "boardroom ready" exhibit. We ARE looking for learning and knowledge gained through truly applying oneself, and for students that have done their best handiwork, and projects with the appearance that a student prepared them.

Our goal is for each student to truly gain new insight into the world God has created.

1. Each project must be related to an area of science. Unacceptable example: Surveying neighbors' choices of laundry detergent. No science is involved. Acceptable experiment project: "*Which laundry detergent removes grease best?*"
2. Each project will be classified by grade level and then into one of the following categories:
 - ◆ **Collection** - Collections examples: rocks, shells, or butterflies. The collection must be scientifically oriented, contain a sufficient number, and show what you have learned through the process of collecting and categorizing.
 - ◆ **Model** – A representation of what something is realistically like. Such as a model of an ear, rocket, or life cycle.
 - ◆ **Demonstration** – A *working* model of things such as volcanoes, robots, or electrical devices.
 - ◆ **Physical Science Experiment** - Experiments in areas such as astronomy, chemistry, geology, or earth science.
 - ◆ **Biological Science Experiment** - Experiments in areas such as botany, bacteriology, anatomy, or genetics.
3. A contestant may enter one exhibit only. (2-member teams, see rule #12.) Teachers and parents may advise, but must not build any part of the exhibit or write *any* of the report*. K - 3rd *may* require a parent to write or type captions on their display boards, but the student should help in the wording. Please use discretion. K - 3rd must perform all other work on the display board themselves, as well as the exhibit.
4. Projects must be freestanding and not more than 30 inches deep (76cm), 48 inches wide (122cm), and 78 inches high (198cm) from the tabletop. (3-sided prefab boards are available at most office supply stores.)
5. Electrical power strips and cords needed for exhibits *must be approved* by TRSF. Once approved, the exhibitor will be responsible for bringing all necessary equipment and for safety, will be required to use duct tape to secure it.
6. The following are **prohibited**: dangerous chemicals, open flames, explosives, or animal experiments that involve starvation or any form of cruelty. TRSF reserves the right to refuse display of an exhibit that is deemed inappropriate.
7. **Call us for details on approval for animal experimentation.** Live animals must be kept in clean cages, fed, and watered. **NO DANGEROUS ANIMALS!** Animals must return home with the exhibitor.
8. TRSF, ICARE, and BACHEN, its representatives and sponsors, and the fair location, its representatives and affiliates, assume no responsibility for loss or damage to any person, exhibit, or any part thereof.
9. All exhibitors must submit an exhibit (board and display of work done), a written report*, and a journal*. (2-member teams in 5th ↑ must submit 1 Exhibit, 2 Reports, and 2 Journals. 4th ↓ Refer to "*" below. See rules #10, #11, & #12.)
10. The title and main headings must be handwritten, created by hand, or stenciled. Labeling, captions, and explanations may be typed or handwritten. **Journals* must be handwritten.** (The journal is a *log* of a student's progress from start to finish on their project. Use a journal or spiral notebook.) Reports* written by 8th ↑ must be typed, but 7th ↓ can chose to type or hand write it. Typed material should use fonts that are easily read. No Clip Art within body of text.
11. Report* must contain: 1. Title Page; 2. Table of contents; 3. Introduction (including why picked, research, & hypothesis or what hope to learn); 4. Project Details (includes how being done, what happened, & final outcome of experiment, model, demonstration, or collection); 5. Discussion (vocabulary page if needed, followed by discussion of the results – tie research with what done); 6. Conclusion (what learned); 7. References. (Each member of a team must write their own report, unless the uppermost grade is in K-3rd or in 4th and opting to not write a report. See rules #9 & #12.)
NOTE: 9th – 12th grade students will be required to include a 1-page abstract following their table of contents.
12. **Special Note:** Teams are limited to 2 and are evaluated on a higher score basis. If exhibitors are in different grades, the project will be judged at the higher-grade level. *Each* team member will be interviewed. One registration form per member with reference to teammate on each form. 1 Exhibit, 2 Reports, 2 Journals (See rules # 9, #10, and #11.)
13. **ALL DECISIONS MADE BY THE JUDGES ARE FINAL.**
14. Failure to follow these rules will result in point deductions and possible disqualification.
15. TRSF reserves the right to amend these rules or make additional binding rulings as events warrant.

***A report & a journal (a *daily* progress diary of project) are required for 5th ↑, and are optional for 4th.**

TEXAS REGIONAL SCIENCE FAIR

TIME SCHEDULE

The schedule below is a suggested scenario for completing your project on a timely basis. Please feel free to increase the amount of time spent in each area as needed. It is important to have short-term goals in order to achieve your best on your project.

May God greatly bless your efforts.

<u>TASK</u>	<u>DUE DATE</u>	<u>COMPLETED</u>
1) Choose Science Project Topic _____	_____	_____
2) Research – Dig deep to understand science concept and determine how to set up project. _____ _____	<u>* 2 weeks</u>	_____
3) Prepare Project – Allow time to restart if problems happen or topic needs to change. _____ _____ _____ _____	<u>* 2 weeks</u>	_____
<i>* You must start sooner if you know your project will take longer than 2 weeks. (i.e. growing plants).</i>		
4) Make Display – This includes your model or examples of what used to do an experiment. _____ _____	<u>1 week</u>	_____
5) Make Visual Aids – This is the tri-fold board & anything else to be used to <i>show</i> what done. _____ _____	<u>** 1 week</u>	_____
<i>** Work on this while preparing your display.</i>		
6) Write report – Make sure to include all the sections as outlined in the rules (#11). _____ _____	<u>*** 1 week</u>	_____
<i>*** Work on this while preparing your display and visual aids.</i>		
7) Science Fair – Get proper sleep the night before!! Prepare by doing mock interviews!! _____	<u>March 24, 2012</u> <u>(Saturday)</u>	_____
Time: <u>8:00 am – 3:30 pm</u>	_____	_____

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GUIDE FORM FOR PROJECTS

Use the listings in the appropriate column to help you format your journal. K - 3rd and 4th graders that decide not to do a journal, should use these listings to format a page(s) to help keep track of what they are doing. This will ensure that all areas are covered.

NOTE: If there are terms that a layperson may not know or understand (in any project area), please have a vocabulary page in your journal & report (**Journals & reports are required for 5th ↑, optional for 4th**). In the journal, dedicate some pages in the front for vocabulary. As research is done, begin filling in these pages with new or unfamiliar words. In the report, please place the vocabulary list at the beginning of the discussion section.

(SEE "RULES" FOR THE REPORT OUTLINE)

Scientific Experiment

Problem – Must be clearly stated.

Hypothesis – Must be clearly stated.

Procedure - Main section. Detail the steps taken. Steps must be easily understood and followed.

Materials - List in the order of use.

Data - What kind of data was collected? Write all observations in the journal. Organize and make material concise for the report.

Graphics - Which of the following can be used to show the data?

- Charts Graphs
- Photos Drawings

Conclusion - What was learned from this experiment? Write all thoughts in the journal. In the report, come to one clearly stated conclusion with the reasoning of how it was reached.

Scientific Demo or Model

Topic – Must be clearly stated.

Drawing - Make a drawing or diagram of what will be demonstrated or of the model that is to be made. Include this in the journal and report.

Procedure - List the steps taken in the demonstration or the procedures followed to make the model.

Materials - List in the order of use.

Graphics - Drawings or photos that show the progress of the demonstration or the building of the model.

Conclusion - What was learned from this project? Why is this important? Write all thoughts in the journal. In the report, come to one clearly stated conclusion with the reasoning of how it was reached.

Scientific Collection

Area of Science – Must be clearly stated.

Items in Collection - Must have an adequate number. For example, 3 butterflies are not considered a collection.

How were the pieces of the collection obtained?

Remember, most collections should be found and not bought. Think about how much more is learned when items are collected from their natural habitat. When items are bought, their natural habitat will need to be researched. Write all of this information in the journal and organize it in the report.

Where items are from? – Specify.

How are items classified? - Use scientific classification that is grade appropriate.

TEXAS REGIONAL SCIENCE FAIR

OUTLINE OF CRITERIA USED FOR JUDGING

**NOTE: 4TH GRADE HAS THE OPTION TO WRITE A REPORT AND JOURNAL.
(If a report is done, it is automatic that a journal should also be done.)
SPECIFY CHOICE ON ENTRY FORM!**

There are penalty points for not following the rules. Please read all rules carefully. Take special note of Rules # 4, 9, 10, and 11 as they pertain directly to the point system.

Special Note: Two member teams are evaluated on a higher score basis. See Rule #12. Please refer to box for scoring applied to teams.

COLLECTION, MODEL, DEMONSTRATION, OR SCIENTIFIC EXPERIMENT

K-3rd and 4th without a report

CREATIVE	15 POINTS	TEAM 15
SCIENTIFIC	20 POINTS	30
UNDERSTANDING	25 POINTS	50
CLARITY	20 POINTS	40
DISPLAY	<u>20 POINTS</u>	40
Total:	100 points	175

4th with a report and 5th-12th

REPORT	10 POINTS	TEAM 20
JOURNAL	5 POINTS	10
CREATIVE	15 POINTS	15
SCIENTIFIC	20 POINTS	30
UNDERSTANDING	25 POINTS	50
CLARITY	20 POINTS	40
DISPLAY	<u>20 POINTS</u>	40
Total:	115 points	205