

Celebration of Science

Dear Parents & Guardians,

It is time for the annual Russell Lee Elementary Celebration of Science. Celebration of Science is a time when students are invited to explore and present a scientific topic of interest and will take place on January 23rd, 2024. Descriptions of each type of project are down below. Students **are NOT required to participate**, they are invited and encouraged to get involved.

Important Details:

- **All projects must be completed by Tuesday, January 23.**
 - Students will be working on their projects at home. Classroom time will not be provided.
 - Students in K-2nd will present in their classrooms on January 23rd.
 - Students in 3-6 grade that are not participating in the Greater Austin Regional Science and Engineering Fair (GARSEF) will also present their projects in class.
 - 3-6th grade students participating in the Science and Engineering fair will present their projects to a panel of judges outside of the classroom.
 - Parents and Caregivers are invited to view projects after school on January 23rd.

More information will be provided at a later date.

Project Types

1. Model or Demonstration with Paper or Media

(Not part of the Greater Austin Regional Science and Engineering Fair)

Students will create a three dimensional model by hand or produce a media-based presentation of a Science related topic of their choosing. They will also write a one page report or media presentation (if age appropriate) describing how they made the model, how it works, what it represents, and why they chose to create it.

2. Written Report

Students will research a Science related topic chosen by the student. They will write/type a minimum of 2 pages on this topic including a works cited resource page.

3. Science Fair Experiments

Science Fair Experiments will continue to follow the requirements from Greater Austin Regional Science and Engineering Fair (GARSEF).The [Elementary Division Handbook](#) includes important information, guidelines, requirements and prohibited projects.

Projects Allowed at GARSEF

- Experiments - a student asks an experimental question, forms and tests a hypothesis, and makes conclusions. Example: I tested batteries to see which brand lasts the longest in a flashlight.
- Engineering Designs - a student sees a need, and then designs and creates a product to fill that need. Example: I tried to design a stronger bridge and here is how I did it and I learned this....
- Exhibits - a student has an item or items that they ask a question about or study in order to answer a question. Examples: Here is a toy windmill I bought and this is how it works. My question was "How does a windmill work?". Then by doing research and playing

with it I learned this....Or This is my rock collection, this is how I organized it and why, this is what I learned about rocks..... (Exhibits or research papers are not encouraged in older grades, 5th - 6th.)

Project Board Guidelines

All student project boards must follow the guidelines in order to be allowed in the exhibit hall.

- Project display should be on sturdy tri-fold board available at local craft and office supply stores. Written material, drawings and pictures should be securely attached to the display board with glue or tape. Do not use staples: they will poke out the back of the board.
- Projects will be displayed on tables that are 36 inches high. Size of display area may not exceed the following measurements: 15" deep, 48" wide, and 72" high. Due to space limitations, displays that exceed these measurements cannot be accepted.
- Electricity for your display will not be available but you can use household batteries to power your project.

Allowed Items

- Photographs, drawings, stuffed animals/artificial plants or imitation (play) food should be used to depict the prohibited or discouraged items.
- Students should take photographs of project steps as a visual explanation of their effort. Students must ask permission before photographing other individuals for the display board.
- Be sure to properly credit/list all sources of graphics and photographers on the display board ("Photograph/Visuals by . . .") This includes images from websites.
- Students may use a computer and printer for written parts of the project.

Discouraged Items

- Items for demonstrations. This is not a demonstration fair. Judges want to hear what the student has learned. Photographs of the project will suffice.

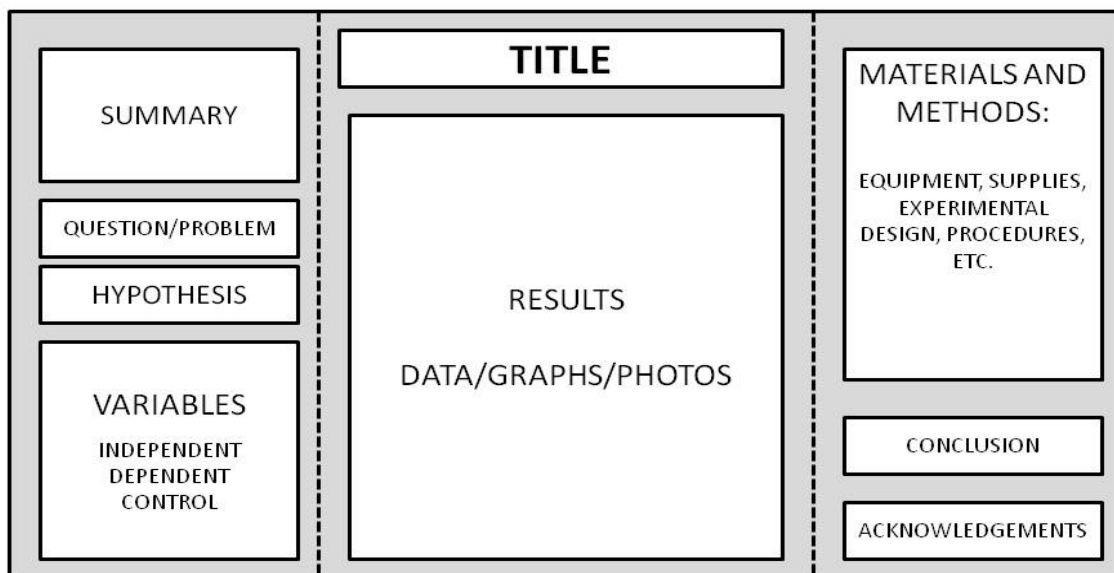
- Expensive, breakable or fragile items

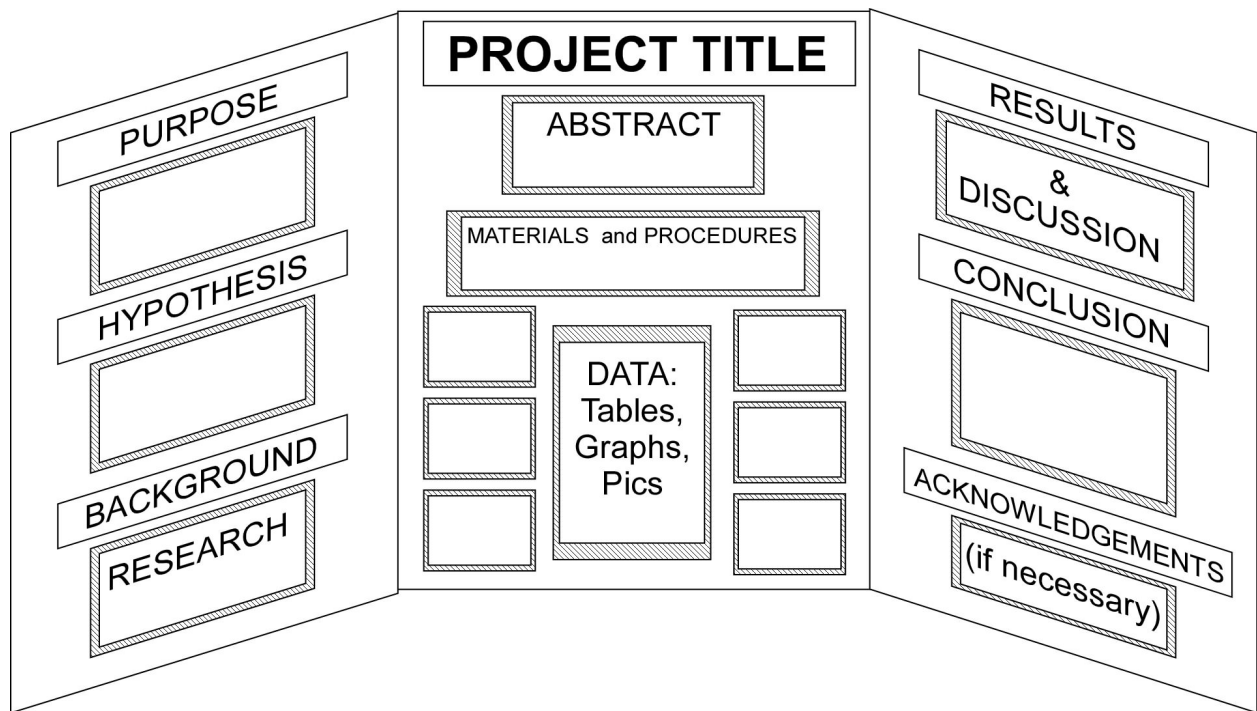
Not Allowed

- No organisms; living, dead or preserved (no plants or animals)
- No water or chemicals, crystals, liquids
- No human/animal parts or body fluids (for example, blood, urine)
- No human or animal food
- No poisons, drugs, controlled or hazardous substances
- No sharp items (for example: syringes, needles, pipettes, knives, tacks, nails)
- No pressurized tanks or containers
- No glass or glass objects unless part of a commercial product (eg: a computer screen)
- No batteries with open top cells (so that battery acid can be seen)
- No dirt, soil, gravel, rocks, sand, waste products, etc.
- No project, device, activity, or substance deemed hazardous to student health or safety
- No photographs or pictures of animals or people in surgical techniques, dissections or necropsies

Examples of Trifold Boards

SCIENCE FAIR PROJECT GUIDELINES





<p><u>Question</u> State your question here.</p> <p><u>Hypothesis</u> State your hypothesis here. (Remember to do this BEFORE your experiment takes place.)</p> <p><u>Materials List</u> List all materials you needed to complete the experiment. If you used it, list it.</p>	<p>PROJECT TITLE</p> <p><u>Procedures</u> Explain what you did for your experiment in such a way that someone else could recreate the experiment again. (include pictures)</p>	<p><u>Data</u> This includes a table where information is recorded during the experiment and an appropriate graph that shows the data in a visual form.</p> <p><u>Analysis</u> Briefly tell what the data shows and what you found out.</p> <p><u>Conclusion</u> State whether your hypothesis was right or wrong.</p>
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Have your science journal available for review.

Helpful Websites

Science Buddies : www.sciencebuddies.org

Britannica Online: <http://school.eb.com/levels/elementary> (no log-in necessary)

World Book Online: <http://worldbookonline.com/student/home> (no log-in necessary)

<http://homeworkspot.com/sciencefair>

http://madsci.org/libs/areas/sci_fair.html

<http://sciencefairproject.virtualave.net/>

<http://www.sciencebob.com/sciencefair/resources.php>

<http://www.tryscience.org/>

http://learn.kidwind.org/learn/science_fair_projects