

STEM DAY  
Lausche Youth Exploration Space  
Saturday, July 27, 2024  
CYNTHIA CANAN, Assistant Superintendent  
MARK LIGHT, Assistant Superintendent

GENERAL GUIDELINES

1. Age of Participants:
  - Junior – (4-H Age 13 and under)
  - Senior – (4-H Age 14 and over)
2. Participation Guidelines:
  - No more than one participant in any one class will be allowed per county and no one individual may participate in more than one class
  - Winner of any one class in 2023 is not eligible to participate in the same class for 2024.
3. Type of Evaluation for Classes J-1 through J-20.
  - Participants will have a personal interview evaluation with a judge.
  - Judge will evaluate participant on the following basis (also see sample score sheet):
    - 50% Knowledge (Depth of project understanding)
    - 25% Interview (Ability to communicate project knowledge)
    - 25% Project Display/Exhibit (Application of project knowledge)
4. Participant to bring:
  - Completed project book.
  - Registration material provided by your County 4-H Professional.
  - A display representing their learning experience of the current project. The display may be in addition to what was used either at the local 4-H judging or at county fair and should be limited in size to what the participant can maneuver on their own. Because of space limitations each participant removes their display from the judging area when the interview is completed. The display does not need to be a tri-fold display board.
  - Refer to additional project requirements as listed in class list below.

CLASSES

- J-1 Rockets Away (Solid-Fuel Rockets) (4-H 503)
- J-2 Rockets Away (Bottle Rockets) (4-H 501)
- J-3 Solid Fuel Rocketry Master (4-H 503M)
- J-4 Robotic Essentials (4-H 509)
- J-5 Robotics Master (4-H 512M) – Contestants are required to bring their own test surface to demonstrate their robot's completion of a task of their choosing (in less than 10 minutes) along with a printout of the program.
- J-6 Science Fun with Electricity
- J-7 Magic of Electricity
- J-8 Investigating Electricity
- J-9 Not Just Knots – Junior
- J-10 Not Just Knots - Senior
- J-11 Crank it Up
- J-12 Warm it Up
- J-13 Tune it Up
- J-14 Ready Set Mow
- J-15 Science Fun with Flight
- J-16 Science Fun with Dairy Foods
- J-17 Science Fun with Kitchen Chemistry
- J-18 Science Fun With Physics
- J-19 Young Engineers in Solar Energy
- J-20 STEM Self-Determined (topics including, but not limited to: 3D printing, computer science, astronomy, genetics, viruses, bacteria and fungi, etc)

## AWARDS AND SPONSORS

1. All participants will receive a "Participation Award" sponsored by The Ohio State Fair.
2. Approximately the top 20% of individuals in each class will receive an "Outstanding of the Day" award sponsored by The Ohio State Fair.
3. One individual will be selected from the "Outstanding of the Day" award winners of each class to receive a clock trophy. The 2023 event was sponsored by **Erica Shelton & Kevn Rodda, Dr. Lauren Logan, Mary Roediger, Janice Butler, Burton Bassett, Dr. Denise Shockley, Rural Beans Roastery, Rinehart Paint and Chassis, Kirk and Marliese Bloir, Lisa McClure, Pamela Watkins, Carolyn Esegroth, Sally McClaskey and Mike Fisher, Ohio Township Association, Terry and Anita Hoelscher Lukac, Tim and Karen Corcoran, and Bryan Swords**
3. Awards will be presented at 6:30 p.m.

## JUDGING SCHEDULE:

The exact schedule of participation will depend on the number reporting at any one time. Member should bring registration information provided by their County 4-H Professional to the registration desk in the Lausche Youth Exploration Space.

10:00 a.m.	Ashland, Clark, Delaware, Fairfield, Fayette, Pickaway
10:30 a.m.	Allen, Champaign, Franklin, Logan, Marion
11:00 a.m.	Coshocton, Crawford, Greene, Licking, Madison, Muskingum
11:30 a.m.	Hardin, Hocking, Holmes, Knox, Morrow, Richland, Union
1:00 p.m.	Mercer, Miami, Montgomery, Ottawa, Perry, Ross, Wyandot
1:30 p.m.	Athens, Auglaize, Clinton, Guernsey, Morgan, Shelby, Vinton
2:00 p.m.	Highland, Huron, Jackson, Medina, Meigs, Pike, Seneca, Stark, Summit, Williams
2:30 p.m.	Belmont, Hancock, Mahoning, Tuscarawas, Wayne, Wood
3:00 p.m.	Butler, Carroll, Clermont, Darke, Defiance, Erie, Hamilton, Harrison, Lorain, Lucas, Warren
3:30 p.m.	Jefferson, Monroe, Noble, Paulding, Portage, Preble, Putnam, Sandusky, Scioto, Van Wert
4:00 p.m.	Adams, Ashtabula, Brown, Columbiana, Cuyahoga, Fulton, Gallia, Geauga, Henry, Lake, Lawrence, Trumbull, Washington

## 2023 CLASS WINNERS

J-01 Rockets Away Solid-Fuel Rockets	Danielle Price, Warren
J-02 Rockets Away Bottle Rockets	Michael Klew, Shelby
J-03 Solid Fuel Rocketry Master	Samuel Theil, Butler
J-04 Robotics Essentials	Evan Hughes, Washington
J-05 Robotics Master	Ian Rohrbacher, Erie
J-06 Science Fun With Electricity	Sylvania Sulfridge, Perry
J-07 Magic of Electricity	Kendall Wild, Fairfield
J-08 Investigating Electricity	Anam Havan, Pickaway
J-09 Wired for Power	Luke Thompson, Noble
J-10 Entering Electronics	Garrett Houin, Holmes
J-11 Not Just Knots, Jr.	Jalyn Eddy, Carroll
J-12 Not Just Knots, Sr.	Jillian Habig, Butler
J-13 Crank it Up	Liam Warren, Clermont
J-14 Warm it Up	Connor Shrimplin, Coshocton
J-15 Tune It Up	Thomas Faber, Erie
J-16 Ready Set Mow	Caitlin Blankenship, Mahoning
J-17 Science Fun with Flight	Ava Maurer, Butler
J-18 Science Fun with Dairy Foods	Charlotte Werner, Fairfield
J-19 Science Fun with Kitchen Chemistry	Sydney Balzer, Pike
J-20 Science Fun with Physics	James Patti, Franklin
J-21 Young Engineers in Solar Energy	Alida Askill, Butler
J-22 STEM Self-Determined	Madyson Christman, Guernsey

## 4-H STEM DAY

### Evaluation Sheet

NAME: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_  
 AGE AS OF JAN. 1 (OF CURRENT YEAR): \_\_\_\_\_  
 YEARS IN 4-H: \_\_\_\_\_

EXHIBITOR NUMBER: \_\_\_\_\_  
 CLASS: \_\_\_\_\_  
 PROJECT NAME: \_\_\_\_\_  
 YEARS IN PROJECT: \_\_\_\_\_

Brief description of what you brought today to display your project (i.e. poster, equipment):

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**Keep this sheet with you until the judge calls your exhibitor number.**

Judging Guidelines	Excellent	Very Good	Good	Average
50% <b>Knowledge</b> – Depth of understanding of the basic concepts and information presented in the project book				
25% <b>Interview</b> - Ability to express project knowledge Communicates Appropriately Attitude During Interview Personal Appearance				
25% <b>Project Display/Exhibit</b> Completeness Accuracy and Neatness Originality, Creativity, Functionality Application of Knowledge				
<b>Judge's Overall Rating</b> (circle one)	Excellent	Very Good	Good	Average

Judge's Comments -  
 Strengths:

Area(s) for additional study: