

STEM DAY
Lausche Building
Saturday, July 29, 2023
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 2022 is not eligible to participate in the same class for 2023.
3. Type of Evaluation for Classes J-1 through J-21.
 - 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 Wired for Power
- J-10 Entering Electronics
- J-11 Not Just Knots – Junior
- J-12 Not Just Knots - Senior
- J-13 Crank it Up
- J-14 Warm it Up
- J-15 Tune it Up
- J-16 Ready Set Mow
- J-17 Science Fun with Flight
- J-18 Science Fun with Dairy Foods
- J-19 Science Fun with Kitchen Chemistry
- J-20 Science Fun With Physics
- J-21 Young Engineers in Solar Energy
- J-22 Self-Determined (includes 3D printing, astronomy, genetics, Viruses, bacteria and fungi)

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 2022 event was sponsored by **Steve and Cindy Rasmussen, Dr. Denise Shockley, Kirk and Marliese Bloir, Lisa McClure, Pamela Watkins, Sally McClaskey and Mike Fisher, Ohio Township Association, Lauren Logan, Rinehart Paint and Chassis, Rinehart Continuous Gutter, Lauren Logan, Bryan Swords and Kayla Oberstadt**
3. Awards will be presented at 4:30 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 Building.

9:00 a.m.:	Clark, Delaware, Fairfield, Fayette, Pickaway
9:30 a.m.	Ashland, Franklin, Licking, Logan, Madison, Marion
10:00 a.m.	Allen, Champaign Morrow, Muskingum, Union
10:30 a.m.	Coshocton, Crawford, Greene, Hardin, Hocking, Holmes
11:00 a.m.	Knox, Miami, Montgomery, Perry, Richland, Ross
11:30 a.m.	Athens, Clinton, Guernsey, Hancock Shelby, Vinton, Wyandot,
1:00 p.m.	Highland, Huron, Jackson, Medina, Morgan, Pike, Seneca, Stark, Summit
1:30 p.m.	Auglaize, Belmont, Tuscarawas, Warren, Wayne, Wood,
2:00 p.m.	Butler, Carroll, Clermont, Darke, Erie, Hamilton, Harrison, Lorain
2:30 p.m.	Monroe, Noble, Paulding, Portage, Preble, Putnam, Sandusky, Van Wert, Washington
3:00 p.m.	Adams, Ashtabula, Brown, Columbiana, Cuyahoga, Defiance, Fulton, Gallia, Geauga, Henry, Jefferson, Lake, Lawrence
3:30 p.m.	Lucas, Mahoning, Meigs, Mercer, Ottawa, Scioto, Trumbull, Williams

2022 CLASS WINNERS

J-04 Rockets Away	Ethan Knauf, Mahoning
J-05 Rockets Away Bottle Rockets	James Bell, Williams
J-06 Solid Fuel Rocketry Master	Danielle Price, Warren
J-07 Science Fun with Flight	Liam Velderrain, Franklin
J-08 Science Fun with Dairy Foods	Caitlin Blankenship, Mahoning
J-09 Science Fun with Kitchen Chemistry	Luke Thompson, Noble
J-10 Robotics Master	Kevin Cotelleso, Greene
J-11 Robotics 1: with EV3	Alexander Threadgill, Morrow
J-12 Robotics 2: with EV3N More	Chet Snyder, Miami
J-13 Science Fun with Physics	Sarah Radwanski, Franklin
J-14 Young Engineers in Solar Energy	Addison Eis, Henry
J-01 Science Fun With Electricity	Miles Ott, Franklin
J-02 Magic of Electric	Douglas Stoudt, Mahoning
J-03 Investigating Electricity	Madison McKee, Putnam
J-04 Wired For Power	Keren Maldonado, Fulton
J-05 Entering Electronics	Sam Basic, Licking
J-06 Not Just Knots, Jr	Jaxson Rusch, Sandusky
J-07 Not Just Knots, Sr	Jacob Poulin, Warren
J-08 Crank It Up	Sophia Patch, Union
J-09 Warm It Up	James Esbenshade, Ashland
J-10 Tune it Up	Luke Grady, Hancock

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):

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

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

Judge's Comments -
 Strengths:

Area(s) for additional study: