



Merrick County Fair Pre-Entry Form
Science Engineering and Technology Entries
DUE JULY 10



First and Last Name of Exhibitor: _____ 4-H Age (as of January 1): ____

Please check the appropriate box for classes.

AEROSPACE/ROCKETS/DRONES - one entry per class number.

- H-850-001. Rocket Any Skill Level
- H-850-002. Aerospace Display
- H-850-003. Rocket Skill Level 2
- H-850-004. Rocket Any self-designed rocket with wooden fins
- H-850-005. Drone Poster
- H-850-006. Drone Video

COMPUTERS- one entry per class number.

- H-860-001. Computer Application Notebook
- H-860-002. Produce a Computer Slideshow Presentation
- H-860-003. Produce an Audio/Video Computer Presentation
- H-860-004. How to STEM (Science, Technology, Engineering and Math) Presentatio
- H-860-005. Virtual Platform Presentation
- H-860-006. Create a Website/Blog or App
- H-860-007. 3D Printing
- H-860-008. Maker Space/Digital Fabrication

ROBOTICS - one entry per class number.

- H-861-001. Robotics Poster
- H-861-002. Robotics Notebook
- H-861-003. Robotics Video
- H-861-004. Robotics Careers Interview
- H-861-005. Robotics Sensor Notebook
- H-861-007. Kit Labeled Robot (cannot be programmed)
- H-861-008. 3D Printed Robotics Parts

JUNK DRAWER ROBOTICS - one entry per class number.

- H-865-001. Marshmallow Catapult
- H-865-002. Balance Beam Design
- H-865-003. Robot Arm
- H-865-004. Gripper
- H-865-005. Put It All Together
- H-865-006. Clip Mobile
- H-865-007. Can-Can Robot
- H-865-008. Es-Car-Go
- H-865-009. Underwater ROV
- H-865-010. Switch
- H-865-011. Robot
- H-865-012. Breadboard
- H-865-013. Robot

ELECTRICITY - one entry per class number.

Unit 1

- H-870-009. Toy Electric Motor from Pre-Manufactured Kit
- H-870-010. Electronic Equipment made from a purchased pre-manufactured kit.
- H-870-011. Bright Lights.
- H-870-012. Control the Flow
- H-870-013. Conducting Things
- H-870-014. Is There a Fork in the Road
- H-870-015. Other project using skills from Unit I.

Unit 2

- H-870-016. Case of the Switching Circuit
- H-870-017. Rocket Launcher
- H-870-018. Stop the Crime

Unit 3

- H-870-001. Electrical Tool/Supply Kit
- H-870-002. Lighting Comparison
- H-870-003. Electrical Display/Item
- H-870-004. Poster

Unit 4

- H-870-005. Electrical/Electronic Part Identification
- H-870-006. Electronic Display
- H-870-007. Electronic Project
- H-870-008. Electronic Poster

GEOSPATIAL - one entry per class number.

- H-880-001. Poster
- H-880-002. 4-H Favorite Places or Historical Site Poster
- H-880-003. GPS Notebook
- H-880-004. Geocache
- H-880-005. Agriculture Precision Mapping
- H-880-006. 4-H History Map
- H-880-007. GIS Thematic Map
- H-880-008. Virtual Geocache

WOODWORKING - one entry per class number.

Woodworking 1 & 2

- H-911-020. Article: Measuring Up
- H-911-030. Article: Making the Cut

Woodworking 3

- H-911-001. Article: Nailing It Together
- H-911-003. Recycled Display: Nailing It Together
- H-911-004. Composite Wood Project
- H-911-005. Outdoor Wood Project made with Treated Wood

Woodworking 4

- H-911-006. Article: Finishing Up
- H-911-008. Recycled Display: Finishing Up

WELDING- one entry per class number.

- H-920-001. Welding Joints**
- H-920-002. Position Welds**
- H-920-003. Welding Art**
- H-920-004. Welding Article**
- H-920-005. Welding Furniture**
- H-920-006. Plasma Cutter/Welder Design**
- H-920-007. Composite Weld Project**

ENERGY- one entry per class number.

- H-900-001. Create and Compare Energy Resources Poster**
- H-900-002. Experiment Notebook**
- H-900-003. Solar as Energy Display**
- H-900-004. Water as Energy Display**
- H-900-005. Wind as Energy Display**
- H-900-006. Other Nebraska Alternative Energy**

MISCELLANEOUS ENGINEERING- one entry per class number.

- M-900-007. Small Engine Display/Item**
- M-900-008. Engine Display/Item**
- M-900-009. Rebuilt Farm Tractor/Machine**