

Department H - SCIENCE, MECHANICS, AND ENGINEERING

For specific rules see 4-H Exhibit Building General Rules

Class 401A, Aerospace — Flyable model built from a kit or original design.

Class 401B, Aerospace — Educational display or other type of exhibit showing an aerospace idea such as forces involved in flying, model rocket photography, safety in flying model rockets or airplanes, test for rocket stability, etc.; may include scale models or kits to illustrate a concept.

Class 421A, Automotive — Repaired or restored vehicle. [NOTE: Cars will be on display at the Iowa State Fair one day only, Thursday, August 13, 2009.]

Class 421B, Automotive — Educational display or other type of exhibit showing an automotive idea such as safe operation, maintenance plan, comparison shopping, principles of systems operations such as electrical, braking, air bags, etc.

Class 901A, Computer — Educational display or other type of exhibit showing:

- an original computer program written by the exhibitor in a common computer language, including documentation; or
- an applied use of existing software (database, spreadsheet, graphic design, etc.) including printouts of the application showing work product; or
- an other idea that is an outgrowth of participation in a 4-H computer project or program.

Class 611A, Electric/Electronics — Constructed or repaired article or educational display or other type of exhibit showing an electric or electronic idea such as safety, construction techniques, lighting effects, electrical energy sources, etc.

Class 451A, Small Engine — Repaired or restored operating engine or educational display or other type of exhibit showing a small engine idea such as maintenance, function of parts, comparisons, etc.

Class 441A, Tractor — Repaired or restored tractor. NOTE: A Conference Judging opportunity for exhibitors at the Iowa State Fair in class 441A will be offered during exhibit check-in, August 11. Tractors will be displayed outside and/or in a tent throughout the Iowa State Fair, August 13-23.

Class 441B, Tractor — Educational display or other type of exhibit related to tractor showing an idea such as safe operation, maintenance plan, engine components, operation costs, principles of engine operation, safety hazards, etc.

Class 411A, Welding — Constructed article or educational display related to welding showing an idea such as safety, types of welds, comparisons of welds, etc.
(NOTE: Large items may be displayed outside.)

Class 461A, Woodworking — New constructed and finished article.
(NOTE: Large outdoor items may be displayed outside.)

Class 461B, Woodworking — Educational display or other type of exhibit showing a woodworking idea such as type of woods, wood finishes, safety precautions, tools and proper use, wood fasteners, woodworking skills and techniques, etc.

Class 893A, Science and Technology — Educational display or other type of exhibit showing how science and math help us understand the world. May include constructed article, posters, portfolios, notebooks, etc., to show and explain what was learned. (Note: Robotics entries should go in this class.)

Class 601A, Other Science, Mechanics and Engineering Ideas — Any other exhibit that is an outgrowth of a 4-H science, mechanics and engineering project or educational experience that does not fit any previous classes listed. Note: large items may be displayed outside.