

## *Science, Mechanics & Engineering Division X*

**401A – Aerospace:** Flyable model built from a kit or original design.

**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.

**421A – Automotive:** Repaired or restored vehicle. *Note: Special arrangements and times may be needed to display cars at the county and state fair.*

**421B – Automotive:** An 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.

**901A – Computer:** (Exhibitor must bring computer during judging if necessary to show exhibit.)

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; another idea that is an outgrowth of participation in a 4-H computer project or program

**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.

**893A – Science and Technology:** An 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.

**451A – Small Engine:** Repaired or restored operating engine or educational display or other exhibit showing a small engine idea such as maintenance, function of parts, etc.

**441A – Tractor:** Repaired or restored tractor. *(Note: Tractors will be displayed outside.)*

**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.

**411A – Welding:** Constructed article or educational display related to welding, such as safety, types of welds, comparison of woods, etc. *(NOTE: Large items may be displayed outside.)*

**461A – Woodworking:** New constructed and finished article *(Note: Large items may be displayed outside.)*

**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.

**601A – Other Science, Mechanical & Engineering Ideas**

Any other exhibit which is an outgrowth of a 4-H science, mechanical, and engineering project or educational experience that doesn't fit any previous classes listed (such as a bicycle). *(Note:*

*Large items may be displayed outside.)*

\* \* \* \* \*