



General Project Information

- Any uses or display of products with alcohol, cigarettes or illegal drugs will not be permitted.
- ☺ = project is eligible for State Fair Selection
- = member may incorporate technology/creativity in this exhibit opportunity (see below)

Creativity

- Members are encouraged to use creativity and technology in preparing an exhibit. This includes alternate ways of presenting displays rather than a poster. An example is using a PowerPoint presentation to do a display.
- No computers or technology will be provided for members. You are responsible for bringing your own computer, etc. A PowerPoint can be printed out and put in a binder.
- The presentation must still meet the exhibit's guidelines including size requirements.
- Projects marked with a are exhibit areas where you can use creativity in the display.

Clover Challenge

- Clover Challenge is an advanced study program for teens. Members ages 15-18 are eligible to enroll in this advanced study unit for state 4-H projects. This project is only an option after the 4-H member has successfully completed the other levels in a particular curriculum area.
- For example if you have already taken Theatre Arts III and mastered the skills, you may want to take Clover Challenge: Theatre Arts and write your own play.
- The opportunities are wide open, however any Clover Challenge must relate to a current 4-H curriculum area. It is NOT a catch all for Do Your Own Thing.
- Members wishing to do Clover Challenge must enroll in Clover Challenge for your project area. The member will have to complete a Clover Challenge Agreement form and identify a mentor.
- If you are interested in doing a Clover Challenge contact the Extension office.

Club/Group Projects

- Clubs can take any project as a county club/group project. A group must be at least 3 members.
- All members wishing to participate must be enrolled in that project by the April deadline using the county club/group enrollment form (available in leader's LOCK box or from the Extension office).
- The members will present the group project to the judge at the same time as individual project judging. The exhibit requirements for the project are the same as for individuals, however only 1 project is needed for the group. Only members present at the judging will receive a premium.
- Only Intercultural and Public Adventures projects will be club/group projects eligible for state fair barring they meet the state fair age requirements.

Project Manual Requirements

- Each activity is listed near the front of the book in a table format. One activity goes until you see the next title. One activity could be 1-4 pages. Be sure to complete the ENTIRE activity.
- See the handbook for specific number of activities required for your project. They are listed in the project requirements under each project and on the next couple pages in a table.
- All activities must be recorded in the "Activities Table" listed near the front of the manual. This allows for quick reference for checking. **If this is not done you will be marked down one letter grade.** We are not going to hunt for your activities.
- The table asks for the date completed and the helper's initials. The helper can be either a parent, club leader, project leader, teacher, etc.
- Some manuals have optional activities. If you choose to do one of these activities as one of your activities completed you should complete the information required in the optional activities/more challenges section where ALL activities should be recorded.
- Project requirements are ones that should be done to complete the project each year. Exhibit requirements are ones that should be followed to exhibit at the fair. You do not need to exhibit at the fair to complete the project. However, you will not receive a premium without an exhibit.

General Project Guidelines Continued...

- You may create your own activity. You may design no more than two activities each year that relate to your project that are not in the project manual. These should be documented either in the book on or a piece of paper inserted into the book. You must attach a short description on a separate piece of paper including what was done and learned. No less than three sentences.
- If you have questions contact the Extension office before the fairs! Make sure to order the manuals you need. The office only keeps a few on hand. Members will be charged for replacement books.

Project	Number of Activities Required
Aerospace (all levels)	4 activities each year
Cats (all levels)	4 activities each year
Child Development (all levels)	4 activities each year
Citizenship (all levels)	Complete all activities in one part (level I) Complete all activities in two parts (level II) 4 activities each year (level III)
Clothing Buying (all levels)	4 activities each year
Communications	3 activities each year
Consumer Savvy	4 activities each year
Electricity (all levels)	4 activities each year
Entomology (all levels)	1 activity each year
Entrepreneurship	4 activities each year
Financial Champions	4 activities each year
Floriculture	4 activities each year
Forestry	4 activities each year
Geology (Pebble Pups/Rock Hounds)	Pebble Pups I – 3 required and 2 optional Pebble Pups II – 4 required and 3 optional Rock Hounds I – 5 required and four optional Rock Hounds II – 5 required and 4 optional
Geospatial	3 activities each year
Keeping Fit & Healthy	4 activities each year
Leadership (all levels)	1 activity from each section
Natural Resources (all levels)	4 activities each year
Outdoor Adventures	4 activities each year
Passport to the World	Whole manual on country
Photography	4 activities each year that include completed photo journal page & review questions for each activity
Plant & Soil Science	4 activities each year in journal
Robotics (all levels)	3 activities each year
Service Learning (all levels)	4 activities each year
Small Engines (all levels)	4 activities each year
Small Pets (all levels)	4 activities each year
Sportfishing (all levels)	4 activities each year
Theatre Arts	4 activities each year
Walk in My Shoes	One activity in Sensory Changes section
Wildlife (all levels)	4 sections each year



Aerospace
Camping & Outdoor Living
Clothing & Textiles
Computers
Crops & Soils
Electricity
Entomology
Forestry
Geology
Geospatial
Horticulture
Interior Design
Natural Resources
Photography
Plant & Soil Science
Robotics
Small Engines
Small Pets
Tractor
Veterinary Science
Woodworking

~ Aerospace ~

Project Requirements (for all classes): Complete at least four activities from the project manual each year. Build and launch or fly at least one model.

G0101A Model Rocketry ☺

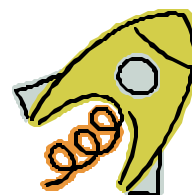
Exhibit Requirements:

- Exhibit one model rocket assembled by the 4-Header
- The exhibit will be a static display.
- The model rocket should be in good flying condition
- DO NOT include the rocket engine with the exhibit. Rockets will not be launched.
- Member should bring the printed instructions for rocket.
- Exhibit should be no larger than a 3' x 3' display space. Posters no larger than 22"x30".
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

G0101D Aerospace Display ☺

Exhibit Requirements:

- Exhibit a display related to aerospace that does not fit into the one prior class.
- This may be an experimental or education poster or display.
- Include an explanation of the display for public understanding.
- This class includes model aircraft.
- Exhibit should be no larger than 3' x 3'. Posters no larger than 22" x 30". Tri-fold display boards are acceptable.
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**



~Camping & Outdoor Living~

Project Requirements: Complete at least four activities in the manual each year.

Size Limitations (for all levels): Space is limited. Table top displays should be limited to approximately 2' wide x 15" deep and recommended poster size is 22" x 30". Electricity and water are NOT available for these displays. Projects should be designed with windy display conditions in mind.

F0210A Outdoor Adventures I – Hiking Trails ☺

Exhibit Requirements:

- Exhibit a display illustrating an activity completed from the project manual. No live animals or reptiles.
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**



Camping & Outdoor Living Continued...

F0210B Outdoor Adventures II – Camping Adventures ☺

Exhibit Requirements:

- Exhibit a display illustrating an activity completed from the project manual. No live animals or reptiles.
 - **Bring the completed manual to the fair to show project requirements have been met for the current year.**
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F0210C Outdoor Adventures III – Backpacking Expeditions ☺

Exhibit Requirements:

- Exhibit a display illustrating an activity completed from the project manual. No live animals or reptiles.
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

~ Clothing & Textiles ~

General Guidelines

1. If a pattern is used, enclose the pattern instructions in a clear plastic bag and attach it to the garment.
2. If a member makes a coordinating outfit with several pieces, they may choose which piece(s) is to be judged.
3. Members may have to exhibit multiple projects from the current 4-H year to demonstrate mastery of skills. All projects showing these skills must be brought to judging. A minimum of one will be required for modeling.
4. The garment will be judged on the hanger during the **first phase** of judging. At that time, inside construction will be judged. During the **second phase** of judging -- fit, overall appearance, and the construction of the hem, waistbands, gathers, tucks, hand-stitching, zippers, buttons, buttonholes, trims and topstitching, and overall pressing will be judged. Be sure to bring all accessories to the county judging and the Fashion Review.
5. Garments constructed for another person are eligible. However, the individual for which the garment was constructed must be present for judging and will need to wear the garment. Members should know how the garment coordinates with the existing wardrobe.
6. 4-H member must exhibit and participate by modeling in the Fashion Revue. A description card will be mailed to each member prior to the fair (usually in June). Cards must be completed and returned to the Fashion Board by the date listed on the card. A member who does not participate in the Fashion Review forfeits any awards they receive unless prior arrangements are made with the superintendents and Extension staff.
7. Non garment items (pillows, tote bags, etc.) are not eligible to be selected for the Fashion Review at the Illinois State Fair. However, they must still participate at the county level in order to receive premiums.
8. All Clothing members must have knowledge of the care information of their garment. This question will be asked during conference judging.
9. All garment items will be on display and require a clear plastic bag (no garment bags) for protection.
10. Exhibit tags should be attached to the GARMENT, not the hanger (construction).
11. Exhibit tags should be attached to the garment and your name and club written somewhere on your poster/display (buying).

Clothing & Textiles Continued...

Judging sheets are available to review the requirements of each level on our website at www.extension.uiuc.edu/ford under 4-H.

Clothing – Construction

E0205 Sewing & Textiles I - Construction

(suggested for ages 8-10 or 1st or 2nd Year in Project)

Project Requirements: Complete at least four activities in the project manual each year.

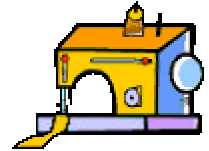


Exhibit Requirements:

- Exhibit one of the following items made by the member:
 - ☺ 9-patch pillow or square pillow (sew and/ or serge)
 - ☺ Tote bag or shopping bag (sew and/ or serge)
 - ☺ A garment that displays sewing seams. A commercial pattern labeled EASY or SIMPLE is recommended. Evaluation will be on construction experience and appearance of the garment on the individual.
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E0206 Sewing & Textiles II - Construction

(suggested for ages 11-13 or 3rd or 4th Year in Project)

Project Requirements: Complete at least four activities in the project manual each year.

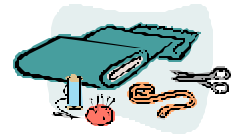


Exhibit Requirements:

- Exhibit one of the following items made by the member:
 - ☺ Any non-wearable item made by the 4-Her.
 - ☺ A garment or combination of garments with facings or curves constructed by the 4-H member.
 - Include a new or more difficult sewing technique each year.
 - This class will be evaluated on the construction experience and the appearance of the garment(s) on the exhibitor.
 - Members should bring pattern instructions.
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E0207 Sewing & Textiles III - Construction

(suggested for ages 14 and up or 5th Year and up in the project)

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- Exhibit one of the following items made by the member:
 - ☺ A garment constructed by the member which is appropriate for the age and experience of the member. (Possible examples are: wool garment, polar fleece garment, dress or jacket with set in sleeves and zipper or buttons and button holes, suits, evening wear or sport outfit.)
 - Include new or more difficult sewing techniques each year.
 - This class will be evaluated on the construction experience and the appearance of the garment(s) on the exhibitor.
 - Members should bring pattern instructions.
 - ☺ A modified/ redesigned/ recycled garment you purchased in the past and “salvaged” by significantly altering the original design. A 3x5 minimum size photo of the original garment (before recycling) should be included.
 - This class will be evaluated on the construction techniques and the appearance of the garment(s) on the exhibitor.
 - On a 3" x 5" card, include the cost of the original garment plus the cost of sewing notions used in the restyling process.

Sewing & Textiles Continued...

Judging sheets are available to review the requirements of each level on our website at www.extension.uiuc.edu/ford under 4-H.



Clothing- Buying

All purchased garments will be modeled at the Fashion Revue.

E0216 Clothing Decisions I: Buying (suggested for ages 8-13)

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- ☺ Exhibit a **display** (example: poster, table top, or other visual) of one completed activity from the project book or an activity that you have created (refer to page 51). **A completed activity in the project manual will not be accepted...it must be a display.** The display should be no larger than 2' wide x 15" deep and posters no larger than 22" x 28".
 - Inclusion of an actual purchased item is optional. However if you wish to participate in the Fashion Revue this is required. If a purchased garment or item is exhibited, it will need to be worn for the judge. The garment must relate to the poster/display.
 - If you bring a purchased item you must have the hang tags and receipts with you for judging.
 - **Bring the completed manual to the fair to show project requirements have been met for the current year.**
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E0217 Clothing Decisions II - Buying (suggested for ages 14 and over)

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- ☺ Exhibit a **display** (example: poster, table top, or other visual) of one completed activity from the project book or an activity that you have created (refer to page 51) which must relate to your purchased garment. **A completed activity in the project manual will not be accepted...it must be a display.** The display should be no larger than 2' wide x 15" deep and posters no larger than 22" x 28".
- Inclusion of an actual purchased garment is required. The garment will need to be worn for the judge. The garment must relate to the poster/display.
- You must have all the hang tags and receipts with you for judging.
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

~ Computers ~

General Guidelines:

- **All exhibitors are required to participate in Computer Judging held in June at the Extension office.**
- Exhibitors will be asked to give a presentation / explanation of their exhibit to the judge.
- A presentation using a computer is NOT required.
- **No computers will be furnished.** Exhibitors may bring their own computer equipment if they wish, however the fair and 4-H staff are not responsible for the safety or security of any computer equipment.
- Telephone modem and wireless connections are not available for use by the exhibitors.

- Any member found to be using computer software in a manner that infringes on copyright laws will be disqualified.

Computers Continued...

G3020A Newbie Know-How

Project Requirements: Complete at least four activities in the manual each year.

Exhibit Requirements: Choose one of the following:

- Create a computer slideshow to share what you have learned about computer basics or using the Internet to gather information
- Exhibit a printed or electronic copy of product (s) using office software applications Bring a science board display or a laptop computer to share your work.

G3020B Peer to Peer

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- Create a computer slideshow to share what you have learned about creating and using computer networks or using networks for online collaborations. Bring a science board display to a laptop computer to share your work.



G3020C Inside the Box

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- Create a computer slideshow to share what you have learned about computer operating systems troubleshooting, tuning-up a computer, or other topics listed in your manual. Bring a science board display or a laptop computer to share your work.

G3020D Teens Teaching Teens

Project Requirements: Complete at least four activities in the project manual each year.

Exhibit Requirements:

- Create a computer slideshow to share what you have learned about teaching others how to use computers, technology needs or resources in your community, activities to create access to technology or other topics listed in your manual. Bring a science board display or a laptop computer to share your work.

G3020 Beginning Computer Programming ☺

Project Requirements: Write a computer program using computer language.

Exhibit Requirements:

- Exhibit a flowchart or alternative visual representation of a program that exhibitor has written, not copied from another source. Exhibitor also may choose to demonstrate the actual program. Choice of programming language is optional.
- Programs exhibited in this class require the use of one or more of each of the following kinds of commands:

- Comments to the reader of the program (e.g. “Now subtract Taxes from GrossPay to get NetPay”).
- Instructions to the user of the program (e.g. “Press Q at any time to quit this program”).

Computers Continued...

- Assignment of data into variables (e.g. “NetPay = GrossPay – Taxes”).
- Choosing between alternatives based on the current value of a variable (e.g. “IF NetPay >= 100000 THEN PRINT ‘THANK YOU, BOSS!’ ELSE GOTO 999”)
- Looping, that is, repeating a group of instructions more than once, using a looping structure (“FOR”, “DO”, etc.) The ending of the loop must be controlled, not just left to loop forever (e.g. “10 GOTO 10”). Controlling the end of the looping may be done using an “IF” statement from item 4.
- Input from, and output to a user.

G3020E Advanced Projects ☺

Exhibit Requirements:

- Exhibit a project that demonstrates high levels of knowledge, skill, and experience, and involve either:
 - programming beyond the scope and sophistication of the beginning programming class, **OR**
 - an integrated project or product which does not readily fit into any of the other class descriptions (e.g. building one’s own computer from component parts; describing a computer-based business which the member operates).

~ Crops ~

****All crops exhibited must have been grown and cared for by the exhibitor as a part of their current 4-H crops project.****

J0101A Corn Display ☺

J0110A Small Grains Display ☺

J0120A Soybean Display ☺

Project Requirements: Study seed development and soil properties. Complete the required activities listed in the project manual each year.

Exhibit Requirements:

- Complete an exercise in the project manual and prepare a display illustrating that exercise.
- The title of the exercise should be included in the display and the display may include pictures and drawings.
- A written description of 50-100 words must accompany each display. This should include the purpose of the exercise, the procedure used and the results obtained.
- **Size Requirements:** Table top displays should be limited to 2’ wide x 15” deep and maximum poster size is 22”x28”. A tri-fold poster board may be used.



J0101B Corn ☺

Project Requirements: *All* - Complete the required activities listed in the project manual each year. *Advanced* – Grow one to ten acres of corn and complete the *4-H Crops and Soils Record Sheet*.

Exhibit Requirements:



- Exhibit two fresh plants of field corn, representative of the member's project field (include root system that is washed). Popcorn and sweet corn should be entered in the vegetable plate or vegetable market basket class.

Crops Continued

- ...A 3" x 5" card should accompany the entry explaining the field conditions from which the plants were obtained. This should include planting date, plant population, variety, fertilizer applied, herbicide applied, and insecticide applied.

J0110B Small Grains ☺

Project Requirements: *All* – Complete the required activities listed in the project manual each year.
Advanced – Grow one to ten acres of small grains and complete the *4-H Crops and Soils Record Sheet*.

Exhibit Requirements:

- Exhibit a gallon of small grain. The small grain may be oats, wheat, rye, or barley and should represent the member's project field.
- A 3" x 5" card should accompany the entry explaining the conditions under which the grain was obtained. This should include planting date, variety, and fertilizer / pesticide treatment.

J0120B Soybeans ☺

Project Requirements: *All* – Complete the required activities listed in the project manual each year.
Advanced – Grow one to ten acres of soybeans and complete the *4-H Crops and Soils Record Sheet*.

Exhibit Requirements:

- Exhibit five fresh plants, representative of the member's project field (include washed root system)
- A 3" x 5" card should accompany the entry explaining the field conditions from which the plants were obtained. This should include planting date, plant population, variety, fertilizer applied, herbicide applied, and insecticide applied.

~ Electricity ~

General Guidelines:

- **Size Requirement:** Displays should be no larger than 2' wide x 15" deep in size.
- It is strongly suggested that members use recommended construction details including proper color coding provided by the Illinois Electrification Committee (EEC) that have been provided on the EEC 4-H website: <http://www.energyedcouncil.org/4h.html>.
- Be able to demonstrate a thorough knowledge of electricity principles.

G0470 Electricity Unit I: Magic of Electricity ☺

Project Requirements: Make a simple switch or game board and complete a safety check. Complete at least four activities (required and/or optional) in the project manual each year.

Exhibit Requirements:

- Exhibit one of the following:
 - A momentary switch, simple switch or basic circuit
 - an electromagnet
 - a galvanometer
 - an electric motor.
 - Another project that demonstrates these principles
- A battery will be provided during judging at the fair.

- State Fair eligible projects for exhibitors 10 and up must **NOT** use paper clips, cardboard, thumbtacks or brads. They must be battery powered projects using battery components and wiring.
- Only direct current - DC - wiring and components may be used.

Electricity Continued...

- **All projects must include a report explaining how the project was constructed and the principles demonstrated.**
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

G0471 Electricity Unit II: Investigating Electricity ☺



Project Requirements: Make one of the choices for fair exhibit. Complete at least four activities (required and/or optional) from the project manual each year.

Exhibit Requirements:

- Exhibit one of the following:
 - a circuit board, demonstrating parallel and series switches, including a circuit diagram
 - a 3-way or 4-way switch circuit using DC/battery
 - Basic electrical device (rocket launcher, burglar alarm, etc)
- A battery will be provided during judging at the fair.
- State Fair eligible projects for exhibitors 10 and up must **NOT** use paper clips, cardboard, thumbtacks or brads. They must be battery powered projects using battery components and wiring.
- Only direct current - DC - wiring and components may be used.
- **All projects must include a report explaining how the project was constructed and the principles demonstrated.**
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

G0472 Electricity Unit III: Wired for Power ☺

Project Requirements: Make one of the choices for fair exhibit. Complete at least four activities (required and/or optional) from the project manual each year.

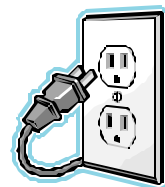


Exhibit Requirements:

- Exhibit one of the following:
 - a 120V lighting fixture or other appliance which uses a switch
 - two electrical household circuits using 120V materials to comply with National Electrical Code, one with a simple on/ off switch to control bulb, and one using 3-way switches to control light from two locations
 - other project which demonstrates principles in the Wired for Power book.
- **All projects must include a report explaining how the project was constructed and the principles demonstrated.**
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**

G0475 Entering Electronics ☺

Project Requirements: Make an electronics or solid state device. Complete at least four activities (required and/or optional) from the project manual each year.

Exhibit Requirements:

- Exhibit any electronic or solid-state appliance and a written report explaining about project construction and what was learned.
- General safety and good workmanship should be considered during construction.
- **Be prepared to discuss how the exhibited item is to be used, the way it was assembled, and disassemble a part(s) to see how the exhibited item works.**
- **Bring the completed manual to the fair to show project requirements have been met for the current year.**