

# 4-H SCIENCE, ENGINEERING & TECHNOLOGY

## DEPARTMENT 45

SUPERINTENDENT:

ROB BIGELOW: (509) 392-2746

[WATEAMROPER77@GMAIL.COM](mailto:WATEAMROPER77@GMAIL.COM)

### Important Links

[Exhibitor Online Registration](#)

[4-H & FFA Rules](#)

[Entry Instructions](#)

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Before entering, please refer to Entry instructions for Rules and Regulations.

1. Entries to be dropped off Sun., Aug. 18 between 10 a.m.–6 p.m. in Building 4.
2. All exhibits will be released Sunday 8/25 from 8 a.m. – 10 a.m. Fair personnel and Superintendents are not responsible for items remaining after 10 a.m.
3. Attach a 3" x 5" index card to entry stating what the item is, its use, what you did, and what was learned.

SPECIAL AWARDS – Ribbon Only			
Grand Champion	Reserve Grand Champion		Best of Show
PREMIUM POINTS			
	Blue	Red	White
Classes 1 – 4, 16 – 19 & 24	20	15	10
Classes 5 – 15, 20 – 23, 25 - 70	12	10	8

### DIVISION

- A. Junior
- B. Intermediate
- C. Senior

**AEROSPACE** - Superintendent or judge will determine degree of challenge for divisions A-

C. If you know the skill level of the model rocket that has been built from a kit, add the information to the margin of the entry form. Rockets will not be displayed with live engines. All exhibits in divisions A and B must have been successfully flown prior to exhibiting and require a copy of the exhibitor's plan sheet or design sheet with the exhibit. A completed certificate of flight must accompany each entry in divisions A and B. Model rocketry will be judged on workmanship and stability according to degree of challenge as determined in model rocketry catalogs.

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**CLASS**

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1. Model rockets made by kits.
2. Model rockets re-designed by exhibitor.
3. Rockets built from plans other than kits.
4. Rockets designed and built by exhibitor.

**AEROSPACE PROJECT** – Entries from the 4-H aerospace project curriculum. Include a 3"x5" card to the entry telling what the item is, its use, what you did, and what was learned from doing the project. Also list the publication title and the page number where the goals are listed for this project.

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**CLASS**

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5. Stage 1: Pre-flight
6. Stage 2: Lift-Off
7. Stage 3: Reaching New Heights
8. Stage 4: Pilot in Command

**BICYCLES, ENGINES AND SNOWMOBILING** - Class 10 is intended for entries from the 4-H "Start your engines" project. Add to the required 3" x 5" card: the publication title and page number where the goals are listed for this project.

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**CLASS**

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9. Bicycles project
10. Small engines project
11. Snowmobiling project

**ELECTRICITY** - All items entered must include a 3" x 5" card telling what the item is, its use, what you did, and what was learned.

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**CLASS**

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12. Electricity project

**WELDING** - All items entered must have a 3" x 5" card telling what the item is, its use, what you did, any special techniques used, and what was learned.

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### CLASS

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- 13. A display board featuring at least three different types of welds
- 14. A display board featuring at least six different types of welds
- 15. Small, welded items
- 16. Medium welded items
- 17. Large, welded items
- 18. Large, welded construction project

**WOODWORKING** - The judge will determine if an exhibit is eligible to be entered in classes 19 and 20. Class 21 is intended for entries from the 4-H "Woodworking" project. Add to the required 3" x 5" card: publication title and page number where the goals are listed for this project.

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### CLASS

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- 19. Small Woodworking Project
- 20. Medium Woodworking Project
- 21. Large, intricate, and/or difficult Woodworking Project.

**COMPUTER TECHNOLOGY** - All items entered must include a 3" x 5" card telling what the item is, how it was made, computer programs used, and what the maker learned while creating the item.

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### CLASS

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- 22. Robotics project – any item from the Robotics Project – entry to include an 8.5"x 11" poster that informs the public of the exhibit's use/purpose. May include pictures, written description, etc.

**COMPUTER GENERATED ITEMS** - Created by using specialized computer programs (Print Shop, Page Maker, etc.)

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### CLASS

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- 23. Flyers/Pamphlets
- 24. Greeting Cards
- 25. Certificates
- 26. Scrapbooks (digital)

**COMPUTER GENERATED ITEMS** - Created by using a word processing program (a program that will import graphics, manipulate text, etc.) – print out and submit.

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**CLASS**

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27. 4-H Club Newsletter (using columns charts, tables, graphs)
28. Spreadsheet showing income and expense (invent data or use for one of your other 4-H projects)
29. Calendars, Address Books, Programs, etc.
30. Magazine or Newspaper (at least 8 pages) – print out
31. Personal Slideshow, music or narration required – minimum 3 minutes – entry must be programmed to automatically advance to the next slide – submitted on flash drive.
32. Slideshow of 4-H Project or Activity, music or narration required – minimum 3 minutes – entry must be programmed to automatically advance to the next slide – submit on a flash drive Individual Web Page designed by the member (print out)
33. 4-H Club Web Page (not on social media) designed by the member (print out pages and links)
34. Computer Program written by the member (print out program and place in a notebook)
35. Computer Tool Kit
36. Software Tool Kit
37. Small Digital Art Items (under 5"x7")
38. Medium Sized Digital Art Items (larger than 5"x7" and smaller than 8"x12")
39. Large Digital Art Items (larger than 8"x12")

**ENVIRONMENTAL STEWARDSHIP** - Each exhibit must be properly labeled, mounted, identified, and classified where appropriate.

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**CLASS**

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40. Air
41. Energy
42. Forestry
43. Marine Life
44. Soil
45. Water
46. Wildlife
47. Any item or display from the "Hiking Trails" project
48. Any item or display from the "Camping Adventures" project
49. Any item or display from the "Backpacking Adventures" project

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**CLASS**

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- 50. Any item or display related to rocks and minerals
- 51. Any item or display related to the 3R's: reduce, reuse, and recycle
- 52. Any item or display related to oceanography
- 53. Any item or display related to weather or climate
- 54. Any item or display related to spiders
- 55. Any item or display related to astronomy or outer space

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**CLASS**

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- 56. Any item or display made by the member in the wind energy project

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**CLASS**

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- 57. Any item or display from the "Follow the Path" project
- 58. Any item or display from the "Reach for the Canopy" project
- 59. Any item or display from the "Explore the Deep Woods" project

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**CLASS**

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- 60. Any item or display from the "Take the Bait" project
- 61. Any item or display from the "Reel in the Fun" project
- 62. Any item or display from the "Cast into the Future" project

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**CLASS**

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Targets are not acceptable entries. Firearms are not allowed as exhibits.

- 63. Any item or display from the riflery project
- 64. Any item or display from the pistol project
- 65. Any item or display from the shotgun project
- 66. Any item or display from the archery project
- 67. Any item or display from the hunting project
- 68. Any item or display from the black powder/muzzle loading project

**ENTOMOLOGY** - The exhibits in entomology are open to members enrolled in entomology, garden, home grounds, environmental stewardship, dairy, and livestock projects. All insect exhibits must be labeled to give the order and common name of insects in the collection and scientific name to as many as possible. All work, including the labeling, should be that of a member. Exhibits previously exhibited at the Benton Franklin Fair are ineligible unless collections are materially enlarged, changed or improved.

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## CLASS

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69. Any item or display from “Creepy Crawlies” project
70. Any item or display from “What’s Bugging You?” project
71. Any item or display from “Dragons, Houses, and Other Flies” project
72. Insect collection containing 25 insects, including at least 5 orders
73. Exhibit of life stages of an insect, from egg to adult
74. Exhibit showing control of management of insects
75. Insect collection mounted and named including order and family, 50 insects involving 10 orders
76. Exhibit of the special activities of one insect
77. Insect collection preserved in plastic, named including order and family, 50 insects involving 10 orders.
78. Special collection of insects by economic importance, habitat, order, immature insects, foreign insects, etc.
79. Apiary exhibit showing honey, beeswax, or home crafted hives and/or supers.
80. Insect collection mounted and named to family and order, 75 insects involving 10 orders.