

Department 24Y — Mechanical Sciences

Class A — Model Airplanes

Premium — \$2.00, \$1.75, \$1.50, \$1.25

1. Airplane made to fly, NO kit, wingspan: 20" or less
2. Airplane made to fly, NO kit, wingspan: over 20"
3. Airplane made to fly, from kit, wingspan: 20" or less
4. Airplane made to fly, from kit, wingspan: over 20"
5. Poster on basic parts of airplane

Class B — Model Rocketry

Premium — \$2.00, \$1.75, \$1.50, \$1.25

6. Single stage rocket
7. Multi-stage rocket
8. Exotic design rocket
9. Homemade design rocket
10. Poster on basic parts of a rocket
11. Scale model rocket

Class C — Bicycle

Premium — \$2.00, \$1.75, \$1.50, \$1.25

12. An educational display related to the bicycle

Class D — Legos

Premium — \$2.00, \$1.75, \$1.50, \$1.25

13. Poster about Lego project
14. Lego display mounted on a base (landscape, village, scene, etc.); maximum base size 24"x24"
15. Free standing Lego creation, no size limit
16. Lego display from a kit
17. Any other building material (not Legos) such as K'nex, Magnetix, Erector or Gears

Class E — Small Engines

Premium — \$1.75, \$1.50, \$1.25, \$1.00

18. Complete small engine, label all external parts
19. Complete small engine block with all internal parts separated, exposed and labeled (panel exhibit)
20. Poster showing correct steps in preparing a small engine for off-season storage
21. Small engine safety poster on: tiller, mini-bike, go-cart, lawn mower, etc.
22. Poster listing preventative maintenance measures recommended for 2-cycle small engine
23. Any other exhibit related to small engine

Class F — Scale Model

Premium — \$2.00, \$1.75, \$1.50, \$1.25

24. Model car
25. Model truck
26. Model boat or ship
27. Model airplane

- 28. Model spaceship, satellite
- 29. Model educational display: skeleton, etc.

Class G — Tractors

Premium — \$2.50, \$2.25, \$2.00, \$1.75

- 30. Poster or display showing safety procedure while using at least two types of farm equipment
- 31. Poster or display showing proper maintenance procedures of at least 2 types of farm equipment
- 32. Any other educational display

Class H — Off Highway Vehicle

Premium — \$2.00, \$1.75, \$1.50, \$1.25

- 33. Poster or display showing safety procedures to be observed while operating an off highway vehicle
- 34. Any other poster or display regarding off highway vehicle

Class I — Robotics (& Geospatial)

Premium — \$2.00, \$1.75, \$1.50, \$1.25

- 35. Booklet describing what was done or learned in project
- 36. Poster (14"x22") showing what was done or learned in project
- 37. Display showing what was done or learned in project
- 38. Any other exhibit to show what was done or learned in project
- 39. Robotics programming demonstration