DEPARTMENT 24 MECHANICAL PROJECTS

Superintendent: Anthony Kuenzi 920-342-9489

Entry Day: Tuesday of Fair Week – checked in by 7:00pm

*Class F – Scale Models/Farm Scenes/Miniatures MUST BE SETUP by 7:00pm

Judging Day: Thursday 9:00 am

*Class F – Scale Models/Farm Scenes/Miniatures are judged on Entry Day beginning at 10am and as soon as the exhibitor has completed assembling his/her exhibit

Judging Location: Youth Building

CLASS A - TRACTOR

-Open to youth enrolled in Tractor project or other youth groups doing equivalent work.

1. Mounted display with parts <u>securely fastened</u>, no larger than 3' by 4'

2. Poster (14"x22") or chart (14"x22") related to what youth has learned in Tractor Project

3. Any other item pertaining to your project

Premium – Face-to-Face Judging \$2.50 \$2.25 \$2.00 \$1.50

CLASS B - BICYCLE

-Open to youth enrolled in Bicycle project or other youth groups doing equivalent work.

- 1. Mounted display with parts <u>securely fastened</u> no larger than 3' by 4'
- 2. Poster (14"x22") or chart (14"x22") related to what youth has learned in Bicycle Project
- 3. Any other item pertaining to your project

Premium – Face-to-Face Judging \$2.50 \$2.25 \$2.00 \$1.50

CLASS C - SMALL ENGINES

-Open to youth enrolled in Small Engine Projects or other youth groups doing equivalent work.

- 1. *Unit 1 "Crank It Up"* Poster (14"x22") illustrating correct staring procedure for a small engine.
- 2. Unit 2 "Warm It Up" Poster (14"x22") showing correct steps in preparing a small engine for off season storage.
- 3. Unit 3 "Tune It Up" Poster (14"x22") showing correct steps in preparing a small engine for off season storage.
- 4. Any Other Poster (14"x22") pertaining to project or small engine safety.
- 5. Panel exhibit of small engine parts <u>securely fastened</u> with identification of parts. No larger than 3' by 4'
- 6. Panel exhibit of carburetor parts securely fastened with identification of parts. No larger than 3' by 4'
- 7. Panel exhibit of small engine electrical system parts <u>securely fastened</u> with explanation of function of parts. No larger than 3' by 4'.
- 8. Any other item pertaining to project.

Premium – Face-to-Face Judging \$2.50 \$2.25 \$2.00 \$1.50

CLASS D - GEOSPATIAL

- -Open to youth enrolled in the Geospatial project.
- 1. Poster of Geographic tools (tape measure, GPS unit, maps, etc.) (14"x22")
- 2. Display of Geographic tools (tape measure, GPS unit, maps, etc.) (3 dimensional, not a poster)
- 3. Poster explaining a map (key, scale, etc.) (14"x22")
- 4. Display explaining a map (key, scale, etc.) (3 dimensional, not a poster)
- 5. A scrapbook of an activity/event using a GPS unit (a geocache search, hunting, trail walk, etc.)
- 6. A poster on any geospatial activity (14"x22")
- 7. Any other item pertaining to the geospatial project.

Premium - Face-to-Face Judging \$3.00 \$2.75 \$2.50 \$2.25

CLASS E - AEROSPACE

- -Open to youth enrolled in Aerospace project or other youth groups doing equivalent work
- -All rockets need engine lug in place, launch guide and recovery system
- -No motors, launch equipment or igniters permitted
- -All models should be painted
- -NO LEGOs
- -All entries [except #4, 5, 6 & 13] must have a 3x5 card attached explaining what you did.
- -Except for #13, rockets should NOT have been fired
- 1. Small model of homemade airplane using balsa wood, paper, cardboard, etc., made to fly (no kits allowed)
- 2. Small model of airplane made from a kit, not made to fly
- 3. Small model of airplane made from a kit, made to fly
- 4. Poster (14"x22") pertaining to project
- 5. Display pertaining to project (3 dimensional, not a poster)
- 6. Any item made from 4-H Literature Aerospace Project Activity Guide for your project area.
- 7. Single stage rocket (Grades 3-8)
- 8. Single stage rocket (Grade 9 & Up)
- 9. Multi-stage rocket (2 or 3 stage) (Grades 3-8)
- 10. Multi-stage rocket (2 or 3 stage) (Grade 9 & Up)
- 11. Exotic design rocket, not made to fly
- 12. Exotic design rocket, made to fly
- 13. Rocket that has been fired (include photo of launch, and report of distance, launch success/failure, accuracy, distance)
- 14. Any other item pertaining to project.

Premium - Face-to-Face Judging \$2.50 \$2.25 \$2.00 \$1.75

CLASS F - SCALE MODELS/FARM SCENES & MINIATURES

- -Open to youth enrolled in Scale Models Project.
- -NO LEGOs.
- -Displays can be NO LARGER than 46" wide x 48" deep on ½" or thicker plywood. The 46" side will face the front.
- -Entries must all have one 3x5card attached with number of years in the project, explaining what you did, what is happening in the scene, and any other special notes.
- -Exhibits will be judged on ENTRY DAY. Setup MUST be completed by 7:00pm.
- 1. Booklet/Scrapbook describing what was done/learned in project
- 2. Poster (14"x22") showing what was done/learned
- 3. Miniature Farm Scenes (Grades 6 & under-First time entering this category at the fair)
- 4. Miniature Farm Scenes (Grades 6 & under-Entering this category for second or more times at fair. Include an explanation of new ideas, changes and/or improvements in your scene from previous years.)
- 5. Miniature Farm Scenes (Grades 7-9---First time entering this category at the fair)
- 6. Miniature Farm Scenes (*Grades 7-9---Entering this category for second or more times at fair. Include an explanation of new ideas, changes and/or improvements in your scene from previous years.*)
- 7. Miniature Farm Scenes (Grade 10 & up---First time entering this category at the fair.)
- 8. Miniature Farm Scenes (Grade 10 & up--Entering this category for second or more times at fair. Include an explanation of new ideas, changes and/or improvements in your scene from previous years.)
- 9. Any Other Scene Over 50% Purchased Materials (Grades 6 & under)

- 10. Any Other Scene Over 50% Purchased Materials (Grades 7-9)
- 11. Any Other Scene Over 50% Purchased Materials (Grades 10 & Up)
- 12. Any Other Scene Over 50% Handmade Materials (Grades 6 & under)
- 13. Any Other Scene Over 50% Handmade Materials (Grades 7-9)
- 14. Any Other Scene Over 50% Handmade Materials (Grades 10 & Up)
- 15. Diorama Scene (Size 12"x18"--NO LARGER!) (Grades 6 & Under)
- 16. Diorama Scene (Size 12"x18"--NO LARGER!) (Grades 7-9)
- 17. Diorama Scene (Size 12"x18"--NO LARGER!) (Grades 10 & Up)
- 18. Any other item pertaining to project.

Premium - Face-to-Face Judging \$2.50 \$2.25 \$2.00 \$1.75

CLASS G - SINGLE MODEL

- -Open to youth enrolled in Models Project.
- -NO LEGOs.
- -SINGLE MODEL of car, train car, animal, tractor, etc. NO Airplanes/Rockets (enter in Class E Aerospace)
- -ALL entries must have 3x5 card attached explaining what you did.
- 1. Single Model (Grades 6 & under)
- 2. Single Model (Grades 7-9) No snap-fit models allowed
- 3. Single Model (Grades 10 & Up) No snap-fit models allowed

Premium – Face to Face Judging \$2.50 \$2.25 \$2.00 \$1.75

CLASS H - LEGOs

- -Open to youth enrolled in LEGOs Project.
- -If you will not be present during face-to-face judging, a 3x5 card must be attached with number of years in project, explaining how you came up with your design and what you did. Include information about the kit(s) used.
- -All entries must be presented on a base no larger than 20"x20". Entries submitted on a larger base or *not on a base* will be automatically marked down one placing.
- -Use the base to help tell the story of what the model is about. Base does not need to be from LEGO baseplates. Megabloks can also be used.

Grades 3-6

- 1. Model from a kit judging will consider primarily how well the model is presented.
- 2. Original design judging will consider the creativity in the original design and presentation.
- 3. Lego scene (original or kit)

Grades 7-9

- 4. Model from a kit judging will consider primarily how well the model is presented.
- 5. Original design judging will consider the creativity in the original design and presentation.
- 6. Lego scene (original or kit)

Grades 10 & Up

- 7. Model from a kit judging will consider primarily how well the model is presented.
- 8. Original design judging will consider the creativity in the original design and presentation.
- 9. Lego scene (original or kit)

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CLASS I METAL WORKS

- -Open to youth enrolled in Mechanical Projects, Welding or Metal Works.
- -If you will not be present during face-to-face judging, a 3x5 card must be attached with number of years

in project, explaining how you came up with your idea for the item and what you did.

- -Size of item is limited to what one person can carry alone without the use of a cart or dolly.
- -No items excepted with gasoline or any other flammable material in it.

WELDING

- 1. Decorative item
- 2. Tool or practical use item
- 3. Item made from recycled material, include picture of original item or material
- 4. Any other item that does not fit in the previous three lots.

BLACKSMITHING

- 5. Decorative item
- 6. Tool or practical use item
- 7. Any other item that does not fit in the previous two lots.

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