

**DEPARTMENT 24**  
**MECHANICAL PROJECTS**

*(Diane Neff 887-8355 & Anne Oelke 326-3875, Superintendents)*

**CLASS A - TRACTOR**

- Open to youth enrolled in Tractor project or other youth groups doing equivalent work.
- 1. Mounted display with parts securely fastened
- 2. Poster (14x22") or chart (14x22") related to what youth has learned in Tractor Project
- 3. Any other item pertaining to your project

**Premiums - Danish 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 securely fastened
- 2. Poster (14x22") or chart (14x22") related to what youth has learned in Bicycle Project
- 3. Any other item pertaining to your project

**Premiums - Danish 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. May enter any of these areas:
- 1. Unit 1 "Crank It Up" Poster (14x22 inches) illustrating correct starting procedure for a small engine.
- 2. Unit 2 "Warm It Up" Poster (14x22 inches) showing correct steps in preparing a small engine for off season storage.
- 3. Unit 3 "Tune It Up" Poster (14x22 inches) showing correct steps in preparing a small engine for off season storage.
- 4. Any Other Poster (14x22 inches) pertaining to project or small engine safety
- 5. Panel exhibit of small engine parts securely fastened with identification of parts.
- 6. Panel exhibit of carburetor parts securely fastened with identification of parts.
- 7. Panel exhibit of small engine electrical system parts securely fastened with explanation of function of parts.

**Premiums - Danish Judging    \$2.50    \$2.25    \$2.00    \$1.75**

**CLASS D - GEOSPATIAL**

- Open to youth enrolled in the Geospatial project.
- 1. Poster of Geographic tools (tape measure, GPS unit, maps, etc.)
- 2. Display of Geographic tools (tape measure, GPS unit, maps, etc.)
- 3. Poster explaining a map (key, scale, etc.)
- 4. Display explaining a map (key, scale, etc.)
- 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
- 7. Any other item pertaining to the geospatial project.

**Premiums - Danish 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
- **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 (14x22 inches) pertaining to project
- 5. Display pertaining to project
- 6. Any item made from 4-H Literature Aerospace Project Activity Guide for your project area.
- 7. Single stage rocket (*Grades 4-8*)
- 8. Single stage rocket (*Grade 9 & Up*)
- 9. Multi-stage rocket (**2 or 3 stage**) (*Grades 4-8*)
- 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*)

**Premiums - Danish Judging    \$2.50    \$2.25    \$2.00    \$1.75**

**CLASS F - SCALE MODELS/FARM SCENES & MINIATURES**

- Open to youth enrolled in Models Project.
- Displays can be **NO LARGER** than **46" wide x 48" deep**
- **Entries must all have 3x5 card attached explaining what you did**
- *Exhibits MUST be SET UP BY 7:00 p.m. on ENTRY DAY!*
- 1. **Booklet/Scrapbook** describing what was done/learned in project
- 2. **Poster** (14x22") 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 - Purchased Materials** (*Grades 6 & under*)
- 10. **Any Other Scene - Purchased Materials** (*Grades 7-9*)
- 11. **Any Other Scene - Purchased Materials** (*Grades 10 & Up*)
- 12. **Any Other Scene - Handmade Materials** (*Grades 6 & under*)
- 13. **Any Other Scene - Handmade Materials** (*Grades 7-9*)
- 14. **Any Other Scene - 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*)

**Premiums - Danish Judging    \$2.50    \$2.25    \$2.00    \$1.75**

**CLASS G - SINGLE MODEL**

- Open to youth enrolled in Models Project.
- SINGLE MODEL of car, train car, animal, tractor, etc.  
but NO Airplanes/Rockets
- **ALL entries must have 3x5 card attached explaining what you did**
- Individual models should be in a small individual clear case
- 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**
- Premiums - Danish Judging    \$2.50    \$2.25    \$2.00    \$1.75**