

# DEPARTMENT 24 – MECHANICAL PROJECTS

## Junior Class

SUPERINTENDENTS

Bill Krantz

ASSISTANT SUPERINTENDENTS

Mary Lou Bausch, Debra Krantz, Cailin Bausch

**Judging - 9:00 a.m. Friday**

**No Exhibitor May Enter both Open and Junior Classes**

**All exhibits must be pre-registered by the fair deadline to exhibit.**

**All exhibits must be in place by 6:00 p.m. on Thursday**

**Limit of one entry per lot number**

### PREMIUMS (Classes 1 & 2)

Blue	Red	White	Pink
\$2.50	\$2.25	\$2.00	\$1.75

### CLASS 1 - TRACTOR MAINTENANCE

Lot No.

1. Tractor safety poster (14" x 22") grades 3-8.
2. Tractor safety poster (14" x 22") grade 9 and over.
3. Display of six (6) or more worn tractor parts properly identified (statement must be attached for each part, indicating how it might have lasted longer if properly cared for).
4. Project record book including 2 to 6 pictures showing evidence of project work.
5. Exhibit on some system of the tractor such as electrical, cooling, transmission, etc. (exhibit must be diagramed, pictorial report of mechanical display).

### CLASS 2 - AUTOMOTIVE

Lot No.

6. Automotive safety poster (14" x 22") grades 3-8.
7. Automotive safety poster (14" x 22") grade 9 and over.
8. Display of six (6) or more worn automotive parts properly identified (statement must be attached for each part indicating how it might have lasted longer if properly cared for).
9. Exhibit on some system of the car such as electrical, cooling, transmission, etc. (exhibit must be diagramed, pictorial report or mechanical display).

### CLASS 3 - SMALL ENGINES

#### PREMIUMS

Blue	Red	White	Pink
\$2.00	\$1.75	\$1.50	\$1.25

Lot No.

10. Small engine poster (14" x 22") grades 3-8.
11. Small engine safety poster (14" x 22") grade 9 and over.
12. Display of five (5) or more used or worn parts properly identified from a 2 or 4 cycle engine. (Statement must be attached indicating how each part might have lasted longer if properly cared for.)

### CLASS 4 - BICYCLE SAFETY

#### PREMIUMS

Blue	Red	White	Pink
\$2.00	\$1.75	\$1.50	\$1.25

Lot No.

13. Poster showing six (6) or more road signs (14" x 22") grades 3-8.
14. Poster showing six (6) or more road signs (14" x 22") grade 9 and over.
15. Safety poster showing safe use of bicycle (14" x 22") grades 3-8.
16. Safety poster showing safe use of bicycle (14" x 22") grade 9 and over.
17. Chart diagramming parts of bicycle.

### CLASS 5 - AEROSPACE

#### PREMIUMS

Blue	Red	White	Pink
\$2.50	\$2.25	\$2.00	\$1.75

Lot No. 18-21 will be display at the Grant County Fair.

Lot No.

18. Poster on any experiment or activity in Aerospace (14" x 22") grades 3-8.
19. Poster on any experiment or activity in Aerospace (14" x 22") grade 9 and over.
20. Experiment in the Aerospace Project, grades 3-8.
21. Experiment in the Aerospace Project, grade 9 and over.
22. Any other project display, grades 3-8.
23. Any other project display, grades 9 and over.
24. Model glider from kit, grades 3-8.
25. Model glider from kit, grades 9 and over.
26. Plastic airplane kit, grades 3-8.
27. Plastic airplane kit, grades 9 and over.

The following classes for model rockets must be accompanied by a 3"x5" card attached to entry tag securely with the following information:

1. Difficulties in building model and manufacturer (example: box name, kit #, etc.)
2. Type of paint used
3. How paint was applied
4. Finishing procedures after decals are in place (wax or lacquered)
5. Any help needed in building the kit

Lot No.

28. Model rocket from a kit, skill level 1, grades 3-8.
29. Model rocket from a kit, skill level 1, grade 9 and over.
30. Model rocket from a kit, skill level 2, grades 3-8.
31. Model rocket from a kit, skill level 2, grade 9 and over.
32. Model rocket from a kit, skill level 3, grades 3-8.
33. Model rocket from a kit, skill level 3, grade 9 and over.
34. Model rocket from a kit, skill level 4, grades 3-8.
35. Model rocket from a kit, skill level 4, grade 9 and over.
36. Model rocket, own design, not from a kit, grades 3-8.
37. Model rocket, own design, not from a kit, grade 9 and over.

### CLASS 6 - MAINTENANCE/REPAIRS

(formerly Handyman Project)

#### PREMIUMS

Blue	Red	White	Pink
\$2.50	\$2.25	\$2.00	\$1.75

Members are limited to a total of two (2) entries in Divisions I & II.

All entries must have a statement attached as to work done and method used.

**Open to members grades 3-8 enrolled in the project for the first year.**

Lot No.

1. Repaired, refinished or constructed article for use in the workshop.
2. Repaired, refinished or constructed article for sport or recreational purposes.
3. Repaired, refinished or constructed article for use in the home.
4. Repaired, refinished or constructed article for use out-of-doors.

**Open to members grade 9 and over enrolled in the project for the first year.**

Lot No.

5. Repaired, refinished or constructed article for use in the workshop.
6. Repaired, refinished or constructed article for sport or recreational purposes.
7. Repaired, refinished or constructed article for use in the home.
8. Repaired, refinished or constructed article for use out-of-doors.

PREMIUMS			
Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

**Open to members grades 3-8 enrolled in the project for two or more years.**

Lot No.

9. Repaired, refinished or constructed article for use in the workshop.
10. Repaired, refinished or constructed article for sport or recreational purposes.
11. Repaired, refinished or constructed article for use in the home.
12. Repaired, refinished or constructed article for use out-of-doors.
13. Repaired, refinished or constructed article for use in another project.

**Open to members grade 9 and over enrolled in the project for two or more years.**

Lot No.

14. Repaired, refinished or constructed article for use in the workshop.
15. Repaired, refinished or constructed article for sport or recreational purposes.
16. Repaired, refinished or constructed article for use in the home.
17. Repaired, refinished or constructed article for use out-of-doors.
18. Repaired, refinished or constructed article for use in another project.

**CLASS 7 - WELDING**

All entries must have a statement describing application used. Example tig, oxyacetylene, mig wire, or arc welding.

**Open to grades 3-8**

1. Poster 11" x 14" showing the different types of welding.
2. Poster 14" x 22" showing different equipment used for welding.
3. Repaired item.
4. Manufactured item.
5. Any other welding project.

**Open to grades 9 and over.**

6. Poster 14" x 22" showing different equipment used for welding.
7. A display of 3 welds (T-joint, butt weld and lap weld) using oxyacetylene, arc and wire welder. Joints may be no more than 3" long. Maximum display size 16" x 24".
8. Repaired item.
9. Manufactured item.
10. Any other welding project.
11. Any welding project done in industrial arts class.

**CLASS 8 -11**

**LEGOS, K'NEX, ROBOTICS, SCALE MODEL**

**SUPERINTENDENT**

Amy Brandemuehl

**ASSISTANT SUPERINTENDENTS**

Noah Gratz, Jamie Puetz, Jeremiah Runde

**Judging - 9:00 a.m. Friday**

**CLASS 8 - LEGOS**

All Legos **MUST** be in a **box** or on a **cookie sheet** that is proportional to the project for ease in handling and displaying.

PREMIUMS			
Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

1. All exhibits must be in place by 6:00 p.m. Thursday.
2. No more than 4 entries may be made by one exhibitor. Limit one entry per lot number.
3. Definitions:  
Scratch built - made by exhibitor's original design, or from a second market kit missing pieces/instructions.

4. Kit built - made by kit instructions.

5. **All kit built exhibits in Legos, K'Nex, Robotics and Scale Models must include model instructions.**

6. Other brands similar to Legos.

7. All kit built entries are limited to no more than 2 kits combined except diorama in Lot 14.

8. Diorama must include story card.

9. All motorized entries must include 3" x 5" card stating how to operate item.

**Open to members grades 3-5.**

Lot No.

1. Lego - animal/person, scratch built
2. Lego - animal/person, kit built (no more than 2 kits combined)
3. Lego - Building/person, scratch built
4. Lego - Building/person, kit built (no more than 2 kits combined)
5. Lego - Article with moveable parts, scratch built
6. Lego - Article with moveable parts, kit built (no more than 2 kits combined)
7. Lego - Article with motorized parts, scratch built
8. Lego - Article with motorized parts, kit built (no more than 2 kits combined)
9. Lego - Any other article, scratch built
10. Lego - Any other article, kit built (no more than 2 kits combined)
11. Lego - Bionical, scratch built
12. Lego - Bionical, kit built
13. Lego - Diorama built with 2 or more items or kits on a 2' x3' or less lego plate or board. Instructions are not required for this entry.
14. Lego - Aquatic item, scratch built
15. Lego - Aquatic item, kit built (no more than 2 kits combined)
16. Lego - Air craft item, scratch built
17. Lego - Air craft item, kit built (no more than 2 kits combined)
18. Lego - Ground transportation (cars, trucks, busses, trains) scratch built
19. Lego - Ground transportation (cars, trucks, busses, trains) kit built (no more than 2 kits combined)
20. Lego - Reused item or item purchased without manual
21. Lego - Any other building set not listed

**Open to members grades 6-8.**

Lot No.

22. Lego - animal/person, scratch built
23. Lego - animal/person, kit built (no more than 2 kits combined)
24. Lego - Building/person, scratch built
25. Lego - Building/person, kit built (no more than 2 kits combined)
26. Lego - Article with moveable parts, scratch built
27. Lego - Article with moveable parts, kit built (no more than 2 kits combined)
28. Lego - Article with motorized parts, scratch built
29. Lego - Article with motorized parts, kit built (no more than 2 kits combined)
30. Lego - Any other article, scratch built
31. Lego - Any other article, kit built (no more than 2 kits combined)
32. Lego - Bionical, scratch built
33. Lego - Bionical, kit built
34. Lego - Diorama built with 2 or more items or kits on a 2' x3' or less lego plate or board. Instructions are not required for this entry.
35. Lego - Aquatic item, scratch built
36. Lego - Aquatic item, kit built (no more than 2 kits combined)
37. Lego - Air craft item, scratch built
38. Lego - Air craft item, kit built (no more than 2 kits combined)
39. Lego - Ground transportation (cars, trucks, busses, trains) scratch built
40. Lego - Ground transportation (cars, trucks, busses, trains) kit built (no more than 2 kits combined)
41. Lego - Reused item or item purchased without manual
42. Lego - Any other building set not listed

**Open to members grades 9 and over.**

Lot No.

43. Lego - animal/person, scratch built
44. Lego - animal/person, kit built (no more than 2 kits combined)
45. Lego - Building/person, scratch built
46. Lego - Building/person, kit built (no more than 2 kits combined)
47. Lego - Article with moveable parts, scratch built
48. Lego - Article with moveable parts, kit built (no more than 2 kits combined)
49. Lego - Article with motorized parts, scratch built
50. Lego - Article with motorized parts, kit built (no more than 2 kits combined)
51. Lego - Any other article, scratch built
52. Lego - Any other article, kit built (no more than 2 kits combined)
53. Lego - Bionical, scratch built
54. Lego - Bionical, kit built
55. Lego - Diorama built with 2 or more items or kits on a 2' x3' or less lego plate or board. Instructions are not required for this entry.
56. Lego - Aquatic item, scratch built
57. Lego - Aquatic item, kit built (no more than 2 kits combined)
58. Lego - Air craft item, scratch built
59. Lego - Air craft item, kit built (no more than 2 kits combined)
60. Lego - Ground transportation (cars, trucks, busses, trains) scratch built
61. Lego - Ground transportation (cars, trucks, busses, trains) kit built (no more than 2 kits combined)
62. Lego - Reused item or item purchased without manual
63. Lego - Any other building set not listed

**CLASS 9 - K'NEX**

K'nex **MUST** be in a **box** or on a **lid or cookie sheet** that is proportional to the project for ease in handling and displaying. **No larger than 2x3 board please.** In cases where a larger board than 2x3 is needed contact the fair office prior to set up night.

**PREMIUMS**

Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

1. All exhibits must be in place by 6:00 p.m. Thursday.
2. No more than 4 entries may be made by one exhibitor. Limit one entry per lot number.
3. Definitions:  
Scratch built - made by exhibitor's original design.  
Kit built - made by kit instructions.
4. Kit built exhibit must include model instructions.

**Open to members grades 3-5.**

Lot No.

1. K'nex - Animal, scratch built
2. K'nex - Animal, kit built
3. K'nex - Person, scratch built
4. K'nex - Person, kit built
5. K'nex - Building, scratch built
6. K'nex - Building, kit built
7. K'nex - Aircraft, scratch built
8. K'nex - Aircraft, kit built
9. K'nex - Aquatic, scratch built
10. K'nex - Aquatic, kit built
11. K'nex - Ground transportation, scratch built
12. K'nex - Ground transportation, kit built
13. K'nex - Roller coaster, scratch built
14. K'nex - Roller coaster, kit built
15. K'nex - Any other amusement rides (ferris wheel, swings, etc) scratch built
16. K'nex - Any other amusement rides (ferris wheel, swings, etc) kit built

17. K'nex - Any other scratch built from kits purchased second market that may be missing manuals and/or pieces

**Open to members grades 6-8.**

Lot No.

18. K'nex - Animal, scratch built
19. K'nex - Animal, kit built
20. K'nex - Person, scratch built
21. K'nex - Person, kit built
22. K'nex - Building, scratch built
23. K'nex - Building, kit built
24. K'nex - Aircraft, scratch built
25. K'nex - Aircraft, kit built
26. K'nex - Aquatic, scratch built
27. K'nex - Aquatic, kit built
28. K'nex - Ground transportation, scratch built
29. K'nex - Ground transportation, kit built
30. K'nex - Roller coaster, scratch built
31. K'nex - Roller coaster, kit built
32. K'nex - Any other amusement rides (ferris wheel, swings, etc) scratch built
33. K'nex - Any other amusement rides (ferris wheel, swings, etc) kit built
34. K'nex - Any other scratch built from kits purchased second market that may be missing manuals and/or pieces

**Open to members grades 9 and over.**

Lot No.

35. K'nex - Animal, scratch built
36. K'nex - Animal, kit built
37. K'nex - Person, scratch built
38. K'nex - Person, kit built
39. K'nex - Building, scratch built
40. K'nex - Building, kit built
41. K'nex - Aircraft, scratch built
42. K'nex - Aircraft, kit built
43. K'nex - Aquatic, scratch built
44. K'nex - Aquatic, kit built
45. K'nex - Ground transportation, scratch built
46. K'nex - Ground transportation, kit built
47. K'nex - Roller coaster, scratch built
48. K'nex - Roller coaster, kit built
49. K'nex - Any other amusement rides (ferris wheel, swings, etc) scratch built
50. K'nex - Any other amusement rides (ferris wheel, swings, etc) kit built
51. K'nex - Any other scratch built from kits purchased second market that may be missing manuals and/or pieces

**CLASS 10 - ROBOTICS****PREMIUMS**

Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

1. All exhibits must be in place by 6:00 p.m. Thursday.
2. No more than 2 entries may be made by one exhibitor.
3. Robotics **MUST** be in a **box** or on a **lid or cookie sheet** that is the same size as the project for ease in handling.
4. Motorized items **must** include batteries for all robotics projects and **must** include information on how it's run.
5. Instructions on running robot program must be included on the 3x5 card.
6. If robot is built from instructions, include those instructions (printed or on USB Drive) also.
7. Multiple entries can be put onto the same USB Drive with the tag for each entry being attached to that USB Drive.
8. FLL related entries will not have Robot (as by fair time robots and competitions are over).

9. If you have any questions regarding your robotic project please contact Amy Brandemuehl at 608-723-6644.

### Open to members grades 3-8 enrolled in Robotics 1

Lot No.

1. Robot from a kit
2. Robot scratch built
3. Robot designed and built scratch built (mindstorms, etc)
4. Robot designed and built kit/instructions built (mindstorms, etc)
5. Robot designed and programmed scratch built (mindstorms, etc)
6. Robot designed and programmed kit/instructions built (mindstorms, etc)
7. Exhibit showing the parts of a robot
8. Poster (14"x22") on differences between machines, computer and robots
9. Scrapbook about your robotic project
10. Erector set
11. Display of First Lego League participation
12. Robot built at a lego camp or using a loaner robot. Show robot doing a task autonomously (by itself) including any props used to demonstrate robot doing a task. Explanation card must be included with how to run, task that is being shown, and any special attachments to the base robot that you have made. Demonstration during judging is encouraged.
13. Video of FLL Robot Run used in any FLL Competition for current year (run completed for Nov., Dec., or Feb. competition) Must be video as Robot table/Robot for run will be unavailable.

### Open to members grades 9 and over enrolled in Robotics 2

Lot No.

14. Robot from a kit
15. Robot scratch built
16. Robot designed and built scratch built (mindstorms, etc)
17. Robot designed and built kit/instructions built (mindstorms, etc)
18. Robot designed and programmed scratch built (mindstorms, etc)
19. Robot designed and programmed kit/instructions built (mindstorms, etc)
20. Exhibit on loop programming
21. Poster (14" x 22") on possible careers as a roboticist
22. Erector set
23. Display of First Lego League participation
24. Robot built at a lego camp or using a loaner robot. Show robot doing a task autonomously (by itself) including any props used to demonstrate robot doing a task. Explanation card must be included with how to run, task that is being shown, and any special attachments to the base robot that you have made. Demonstration during judging is encouraged.
25. Video of FLL Robot Run used in any FLL Competition for current year (run completed for Nov., Dec., or Feb. competition) Must be video as Robot table/Robot for run will be unavailable.

### CLASS 11 - SCALE MODEL PROJECT (DIORAMAS enter in Class 12)

Scale models **MUST** be in a **box** or on a **lid** or **cookie sheet** that is the same size as the project for ease in handling.

#### PREMIUMS

Blue	Red	White	Pink
\$2.00	\$1.75	\$1.50	\$1.25

1. No more than 2 entries may be made by one exhibitor in this Class. Only one entry per lot number.
2. The largest scale to be used is 1/12 scale. (1 inch equals 1 foot.)
3. First year modelers can build a Snap-Tite kit.
4. Each exhibit must be accompanied by a 3"x5" card with the following information:
  - A. Difficulties in building the model
  - B. Manufacturer of kit, if applicable

- C. Type of paint used and how applied
- D. Finishing procedures after built (decals, sealer, etc.)
- E. Any help in building the kit
- F. Any modification in building it
- G. Amount of time you spent building this project

#### 5. Definitions:

- A. Scratch built - buying or making individual parts and building a scale model
- B. Custom built - starting with a kit or a model and completely changing or modifying its appearance
- C. Kit - bashed - taking two or more kits and combining them into one scale model

6. Motorized items must include batteries and a support box with manual

### Open to members grades 3-5.

Lot No.

1. Military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles)
2. Military items, scratch built, custom built or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons)
3. Aquatic items built from a kit. (Ships, submarines, boats)
4. Aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats)
5. Highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles)
6. Highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles)
7. Railroad items, built from a kit. (Engines, railroad cars, railroad equipment)
8. Railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment)
9. Agricultural items, built from a kit. (Tractors or farm equipment)
10. Agricultural items, scratch built, custom built, kit-bashed. (Tractors or farm equipment)
11. Non-military aircraft - built from a kit.
12. Non-military aircraft - scratch built, custom built, kit-bashed.
13. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.
14. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
15. Any other scale model item(s), built from a kit.
16. Any other scale model item(s), scratch-built, custom-built or kit-bashed.
17. Scale Model - reused item or item purchased without manual.

### Open to members grades 6-8.

Lot No.

18. Military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles)
19. Military items, scratch built, custom built, or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons)
20. Aquatic items built from a kit. (Ships, submarines, boats)
21. Aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats)
22. Highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles)
23. Highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles)
24. Railroad items, built from a kit. (Engines, railroad cars, railroad equipment)
25. Railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment)
26. Agricultural items, built from a kit. (Tractors or farm equipment)
27. Agricultural items, scratch built, custom built, kit-bashed. (Tractors or farm equipment)
28. Non-military aircraft - built from a kit.
29. Non-military aircraft - scratch built, custom built, kit-bashed.

30. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.
31. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
32. Any other scale model item(s), built from a kit.
33. Any other scale model item(s), scratch-built, custom-built or kit-bashed.
34. Scale Model - reused item or item purchased without manual.

**Open to members grade 9 and over.**

Lot No.

35. Military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles)
36. Military items, scratch built, custom built or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons)
37. Aquatic items built from a kit. (Ships, submarines, boats)
38. Aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats)
39. Highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles)
40. Highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles)
41. Railroad items, built from a kit. (Engines, railroad cars, railroad equipment)
42. Railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment)
43. Agricultural items, built from a kit. (Tractors or farm equipment)
44. Agricultural items, scratch built, custom built, kit-bashed. (Tractors or farm equipment)
45. Non-military aircraft - built from a kit.
46. Non-military aircraft - scratch built, custom built, kit-bashed.
47. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.
48. Miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
49. Any other scale model item(s), built from a kit.
50. Any other scale model item(s), scratch-built, custom-built or kit-bashed.
51. Scale Model - reused item or item purchased without manual.

**CLASS 12 - DIORAMAS**

SUPERINTENDENT

Mike Holzer

ASSISTANT SUPERINTENDENTS

Laurie Spease, Laurie Sedbrook, Courtney Spease

**Judging - 9:00 a.m. Friday**

**All exhibits must be pre-registered by the fair deadline to exhibit.**

**No Exhibitor May Enter both Open and Junior Classes**

**All exhibits must be in place by 6:00 p.m. on Thursday**

**Limit of one entry per lot number**

PREMIUMS			
Blue	Red	White	Pink
\$3.00	\$2.75	\$2.50	\$2.25

1. No more than 2 entries may be made by one exhibitor in this Class. Only one entry per lot number.
2. The largest scale to be used is 1/12 scale. (1 inch equals 1 foot.)
3. Breyer horses and barbies allowed.
4. Each exhibit must be accompanied by a minimum of a 3"x5" card with the following information:
  - A. Diorama title
  - B. Difficulty in building the diorama
  - C. Any help in building it
  - D. Amount of time to building it
  - E. Specify any customized pieces and whether those pieces were purchased or customized by exhibitor
  - F. Explain the activity in your diorama - may use separate page to explain
5. Dioramas will be limited in size to a maximum of 3' x 4'.
6. Definitions:
  - A. Scratch built - buying or making individual parts and building a scale model
  - B. Custom built - starting with a kit or a model and completely changing or modifying its appearance
  - C. Kit - bashed - taking two or more kits and combining them into one scale model

**Open to members grades 3-5.**

Lot No.

1. Diorama of military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles.)
2. Diorama of military items, scratch built, custom built or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons.)
3. Diorama of aquatic items built from a kit. (Ships, submarines, boats.)
4. Diorama of aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats.)
5. Diorama of highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles.)
6. Diorama of highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles.)
7. Diorama of railroad items, built from a kit. (Engines, railroad cars, railroad equipment.)
8. Diorama of railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment.)
9. Diorama of agricultural items, built from a kit. (Tractors, farm equipment, farm buildings, may or may not include houses.)
10. Diorama of agricultural items, scratch built, custom built, kit-bashed. (Tractors, farm equipment, farm buildings, may or may not include houses.)
11. Diorama of non-military aircraft, built from a kit.
12. Diorama of non-military aircraft, scratch built, custom built, kit-bashed.
13. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.

14. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
15. Diorama of science fiction, built from a kit. (aliens, dragons, star wars, etc.)
16. Diorama of science fiction, scratch-built, custom-built, or kit-bashed. (aliens, dragons, star wars, etc.)
17. Diorama of natural science, built from a kit. (birds, lizards, solar system, dinosaurs, etc.)
18. Diorama of natural science, scratch-built, custom-built, or kit-bashed. (birds, lizards, solar system, dinosaurs, etc.)
19. Diorama of equine item(s), built from a kit.
20. Diorama of equine item(s), scratch-built, custom-built, or kit-bashed.
21. Diorama of any other scale model item(s), built from a kit.
22. Diorama of any other scale model item(s), scratch-built, custom-built or kit-bashed.

**Open to members grade 6-8.**

Lot No.

23. Diorama of military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles.)
24. Diorama of military items, scratch built, custom built or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons.)
25. Diorama of aquatic items built from a kit. (Ships, submarines, boats.)
26. Diorama of aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats.)
27. Diorama of highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles.)
28. Diorama of highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles.)
29. Diorama of railroad items, built from a kit. (Engines, railroad cars, railroad equipment.)
30. Diorama of railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment.)
31. Diorama of agricultural items, built from a kit. (Tractors, farm equipment, farm buildings, may or may not include houses.)
32. Diorama of agricultural items, scratch built, custom built, kit-bashed. (Tractors, farm equipment, farm buildings, may or may not include houses.)
33. Diorama of non-military aircraft, built from a kit.
34. Diorama of non-military aircraft, scratch built, custom built, kit-bashed.
35. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.
36. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
37. Diorama of science fiction, built from a kit. (aliens, dragons, star wars, etc.)
38. Diorama of science fiction, scratch-built, custom-built, or kit-bashed. (aliens, dragons, star wars, etc.)
39. Diorama of natural science, built from a kit. (birds, lizards, solar system, dinosaurs, etc.)
40. Diorama of natural science, scratch-built, custom-built, or kit-bashed. (birds, lizards, solar system, dinosaurs, etc.)
41. Diorama of equine item(s), built from a kit.
42. Diorama of equine item(s), scratch-built, custom-built, or kit-bashed.
43. Diorama of any other scale model item(s), built from a kit.
44. Diorama of any other scale model item(s), scratch-built, custom-built or kit-bashed.

**Open to members grade 9 and over.**

Lot No.

45. Diorama of military items, built from a kit. (Tanks, trucks, cannons, personnel vehicles.)
46. Diorama of military items, scratch built, custom built or kit-bashed (combining 2 or more kits into one model). (Tanks, trucks, personnel vehicles, cannons.)
47. Diorama of aquatic items built from a kit. (Ships, submarines, boats.)

48. Diorama of aquatic items, scratch built, custom built, kit-bashed. (Ships, submarines, boats.)
49. Diorama of highway transportation items, built from a kit. (Semis, trucks, cars, motorcycles.)
50. Diorama of highway transportation items, scratch built, custom built, kit-bashed. (Semis, trucks, cars, motorcycles.)
51. Diorama of railroad items, built from a kit. (Engines, railroad cars, railroad equipment.)
52. Diorama of railroad items, scratch built, custom built, kit-bashed. (Engines, railroad cars, railroad equipment.)
53. Diorama of agricultural items, built from a kit. (Tractors, farm equipment, farm buildings, may or may not include houses.)
54. Diorama of agricultural items, scratch built, custom built, kit-bashed. (Tractors, farm equipment, farm buildings, may or may not include houses.)
55. Diorama of non-military aircraft, built from a kit.
56. Diorama of non-military aircraft, scratch built, custom built, kit-bashed.
57. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, built from a kit.
58. Diorama of miniature dwelling(s), (doll houses, etc.) and/or furnishings, scratch-built, custom-built or kit-bashed.
59. Diorama of science fiction, built from a kit. (aliens, dragons, star wars, etc.)
60. Diorama of science fiction, scratch-built, custom-built, or kit-bashed. (aliens, dragons, star wars, etc.)
61. Diorama of natural science, built from a kit. (birds, lizards, solar system, dinosaurs, etc.)
62. Diorama of natural science, scratch-built, custom-built, or kit-bashed. (birds, lizards, solar system, dinosaurs, etc.)
63. Diorama of equine item(s), built from a kit.
64. Diorama of equine item(s), scratch-built, custom-built, or kit-bashed.
65. Diorama of any other scale model item(s), built from a kit.
66. Diorama of any other scale model item(s), scratch-built, custom-built or kit-bashed.

**Team Diorama: Open to a combination of members of any grades.**

**All entries in team diorama need to have a description card with the following:**

- a. What did you learn or resolve by working as a team?**
- b. What made it better or worse by working as a team?**

Lot No.

67. Agriculture - Up to a maximum of two exhibitors on any one of the above subjects. One 3' x 4' space per exhibitor. Each team member must enter individually under this lot number.
68. Agriculture - Up to a maximum of three exhibitors on any one of the above subjects. One 3' x 4' space per exhibitor. Each team member must enter individually under this lot number.
69. Non-Agriculture - Up to a maximum of two exhibitors on any one of the above subjects. One 3' x 4' space per exhibitor. Each team member must enter individually under this lot number.
70. Non-Agriculture - Up to a maximum of three exhibitors on any one of the above subjects. One 3' x 4' space per exhibitor. Each team member must enter individually under this lot number.

**JUST-IN DONAR TRUCKING**

Just-In Donar Trucking, Cuba City will offer a trophy to the exhibitors of the Best of Show in Dioramas in grades 3-5.

**RUNDE AUTO GROUP**

Runde Auto Group, East Dubuque, will offer a trophy to the exhibitors of the Best of Show in Dioramas in grades 6-8 and grades 9 and over.

**BEST OF SHOW TEAM DIORAMA**

Just-In Donar Trucking, Cuba City will present a trophy to the top two exhibitors for Best of Show Team Diorama in agriculture and non-agriculture. Also, a trophy will be given to the top three exhibitors for Best of Show Team Diorama in agriculture and non-agriculture