Judging Saturday, July 24; 1:00 p.m.

1. Limit 1 entry per class.
2. Refer to Rules & Regs on pages 4-6.
3. 4-H members must be enrolled in the shooting sports project and have completed the mandatory class session in safety and in their chosen discipline(s).
4. Shooting competitions will be strictly non-premium and will only be awarded a ribbon placing based on scores.
5. Educational displays, posters, and notebooks will be awarded premiums and judged on the following criteria:
   - 50% - Composition - Neatness, clear lettering & display, choice of color
   - 25% - Theme - Clear, concise, easy to understand
   - 25% - Project Connection - How it applies to project, importance to member, learning experience
6. Entries will prominently incorporate the 4-H Clover with KSRE branding and should include the Kansas 4-H Shooting Sports emblem. Failure to do so will penalize entry one ribbon color. Emblems may be found on the county website under the County Fair tab.
7. Educational displays must be the standard tri-fold board only, and must not exceed 3" wide x 4' tall. Promotional posters must be flat and no larger than 22" x 28". Exhibits exceeding the size guidelines will be reduced one ribbon color.
8. Shooting competitions will be held under State 4-H rules. These rules are available from Shooting Sports Leaders and Extension Office.

STEM Ag Mechanics
Judging Sunday, July 25; 1:00 p.m.

1. Limit 1 entry per class.
2. Refer to Rules & Regs on pages 4-6.
3. Exhibits dimensions should not exceed 3 feet high, by 3 feet wide, by 3 feet deep. Total exhibit weight may not exceed 150 pounds (movable by 2 people)
4. Wheeled exhibits must utilize a braking mechanism which prevents the exhibit from freely rolling while on display.
5. Each exhibit must be free-standing or sufficiently supported by an exhibitor supplied support system that is moveable and is part of the total dimension and weight of the exhibit as described previously. Exhibit boards should have a portable and movable base. No exhibits may be staked to the ground for display.
6. Top heavy items should be braced or placed in a stand sufficient to prevent it from toppling over while on display.
7. Repair projects having adequate original finish need not to be repainted.
8. Cutting surfaces, such as blades or knives, are to have a protective covering over them to prevent injury. The covering should be easily removed and reinstalled for judging. Foam “pool noodles” and multiple layers of cardboard are acceptable.
9. Exhibits that include weaponry of any kind will be disqualified. Weaponry is defined as any instrument, possession, or creation, physical and or electrical that is intended to be used to inflict damage and/or harm to individuals, animal life, and/or property.
10. If the exhibit is powered by flammable liquids (gas, propane, kerosene, etc.) the fuel tank and lines should be drained and allowed to dry, to avoid spills and potential fires.
11. Electric powered (battery, corded, solar, or alternative energy) should have a primary shutoff or disconnect switch.
12. If a safety violation is noted by the judges, superintendent or other staff, the exhibit, at the judge’s discretion will receive a deduction in ribbon placement or a participation ribbon.
13. The exhibitor’s name and county must be tagged or labeled in a prominent location on the display.
14. Each exhibit must include an Ag Mechanics information packet. Entry of just a packet without an accompanying exhibit is not sufficient exhibit.
15. Each exhibitor is required to complete the “4-H STEM Ag Mechanics Exhibit Information Form, which is available at: www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit.
16. Each exhibit information packet should include the following items:
   a. Bill of materials for the project with associated costs, scrap items used may be listed as having a $0.00 cost
   b. 1 to 5 pages of photos showing work on the exhibit, preferably from the beginning state to final or completed state.

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c. If appropriate schematics or working drawings relating to the creation or repair

d. If appropriate, operating instructions

* 4-H Class *

4100 Welding display board: a 3 ft by 3 ft display with different pieces of metal attached illustrating different types of welds, each weld being labeled (1-3 years of experience)

4101 Welding Ag Repair

4102 Welding Ag Fabrication: creation of new equipment

4103 Welding General Repair: repair of non-ag equipment

4104 Welding General Fabrication: creation of non-ag equipment

4105 Welding Artistic Fabrication: creation of artistic or interpretive pieces

4106 Brazing Fabrication

4107 Brazing Repair

4108 Smithing Display Board: a 3 foot by 3 foot display board with different pieces of forged metal attached illustrating different forms, each form being labeled

4109 Level 1 Smithing: a design forged with at least one formed element (twists or spirals for example)

* Open Class *

4200 Beginning Ag Mechanic (2 years or less experience)

4201 Advanced Ag Mechanics (3 years or more experience)

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**STEM Architectural Block Construction**

Judging Sunday, July 25; 1:00 p.m.

1. Limit 1 entry.
2. Refer to Rules & Regs on pages 4-6.
3. Up to 4 exhibits will be selected to advance to the Kansas State Fair.
4. Total exhibit dimensions may not exceed 2 feet high, by 2 feet wide, by 2 feet deep.
5. All exhibits should be placed in a sturdy see through enclosure with a top, bottom, and 4 sides. A fish tank would be an acceptable enclosure. This is to keep exhibit parts from being scattered throughout the fair.
6. All components used in construction should be dust free, clean, free of chips, scuffs, or cracks.
7. The primary building component can be integrated into dioramas to illustrate architectural aspects that may be difficult to convey with traditional interlocking blocks.
8. The use of existing “store bought” sets for major architectural elements of the display is not allowed for any eligible exhibits for Kansas State Fair. For County Fair, kits may be used for Class 4114 Only. Use of figurines from sets is allowed as are using individual bricks to create something different than the architectural component of the set it came from.
9. Displays must have significant architectural components (walls, windows, doors, roofs, canopies, flying buttresses, etc.), landscapes are discouraged.
10. Architectural elements should have a consistent look, walls with no pattern or consistency will be deducted one ribbon placing.
11. Gaps or cracks should not be visible between assembled blocks
12. Doors should open and close, windows can be either fixed or open and close.
13. Vehicles that are intended to stay in a single place should be affixed to base plates with sticky tack, hot glue, or other method.
14. Reveals that show the inside of a structure are acceptable, such as only having three walls to allow an unobstructed view into a room.
15. Mechanical enhancements or motion elements that add motion to the diorama are acceptable and encouraged. If used, judges should be able to used them and instructions should be provided for operation.
16. Artistic designs with no architectural design/components are not permitted and two ribbon placings will be deducted.
17. The exhibitor’s name and county must be tagged or labeled in a prominent location on the display.
18. Each exhibit must include an Architectural Block Construction information packet. Entry of just a packet without an accompanying exhibit is not a sufficient exhibit.
19. Each exhibitor is required to complete the “4-H STEM Architectural Block Construction Exhibit Information Form, which is available at: www.STEM4KS.com. This form must be attached to the outside of a 10” x 13” manila envelope. Do not tie the envelope to the exhibit.
20. Each exhibit information packet should include the following items:
   a. At least one drawing of the desired architecture on graph paper, multiple views (top, front, side) are preferred.
   b. 1 to 5 pages of photos showing work on the exhibit, preferably from a beginning state to final or completed state.
   c. If appropriate, operating instructions for mechanical portion of the diorama
21. For all STEM Educational Exhibits, see rules on page 29.

* 4-H Class *

4110 Level I: Diorama illustrating at least 2 architectural features beyond floors, ceilings, and walls. (For 1-3 years of experience)

4111 Level II: Diorama illustrating at least 4 architectural features beyond floors, ceilings, walls, and includes 1 or more motion elements. (For 4-6 years of experience)

4112 Level III: Diorama illustrating at least 4 architectural features beyond floors, ceilings, walls, and includes 2 or more motion elements. (For 7-9 years of experience)

4113 Level IV: Diorama illustrating at least 8 architectural features beyond floors, ceilings, walls, and includes 3 or more motion elements. (For 10 or more years of experience)

4114 Building Creations (Local Only): May use a kit for this class.

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Good luck and best wishes to all the Exhibitors and patrons of the Wabunsee County Fair!

-Mary Reed & Blair Spencer