

**2020**

## **SCIENCE, ENGINEERING AND TECHNOLOGY**

All exhibits must be labeled. Label each item with the exhibitor name, project division, exhibit class number and years in the project before entering at county fair. The name and county of each exhibitor should appear separately on the back of each board, poster or article and on the front cover of the notebooks so owner of exhibit may be identified if the entry tag is separated from the exhibit. Each individual is limited to one exhibit per class. All static exhibits must have received a purple ribbon at the county fair to advance to the State Fair.

Several classes require a display board which should be a height of 24 inches and not to exceed 1/4" in thickness. A height of 23 7/8" is acceptable to allow for the saw kerf (width) if two 24 inch boards are cut from one end of a 4' X 8' sheet of plywood. Nothing should be mounted within 3/4" of the top or bottom of the board. (Example: Woodworking & Electricity.)

Fabricated board such as plywood, composition board, or particle-type lumber may be used for demonstration displays.

Demonstration boards should be sanded and finished to improve their appearance. The finish on a demonstration board will be judged as a woodworking exhibit. Demonstration boards should include an overall title for the display, plus other necessary labeling.

Reports should be written using the scientific method whenever possible (background, the question or hypothesis, what you plan to do and what you did, method used and observations, results: what you learned. All reports should be computer generated and enclosed in a clear, plastic cover. The reports should be attached securely to the display.

4-H'ers can exhibit in only one level, and once they have progressed to a higher level they cannot exhibit or enroll in a lower project level. This does not apply to Aerospace Model Rockets Levels 3 and 4 and Woodworking Levels 3 and 4.

\*H930001. Careers Interview – Interview someone who is working in any field associated with science, engineer and technology and research that career (i.e. computer programmer, architect, engineer, pilot, etc.). Interviews can either be written or in a multimedia format (CD/DVD). Written interviews should be in a notebook. Written reports should be 3 to 5 pages, double spaced, 12-point font, and 1" margins. Multimedia reports should be between 3 to 5 minutes in length.

## **VETERINARY SCIENCE**

\*Denotes State Fair Entry

The purpose of a Veterinary Science exhibit is to inform the public about a common health problem of animals or a veterinary science principle. Do not confuse veterinary science exhibit topics with animal husbandry, history or production topics.

A Veterinary Science exhibit may consist of a poster, notebook, or a display. The exhibit may represent material from any of the Veterinary Science projects including entry level exhibits from Unit I.

If photographs are to be part of the exhibit, remember that they will be viewed by the public. Make sure that the photographs are in good taste and will not be offensive to anyone. Graphic photographs of excessive bleeding, trauma or painful procedures are not appropriate. For exhibits related to veterinary surgical procedures, aseptic techniques need to be shown, for example, use of drapes, use of sterile procedures, wearing of gloves, and other appropriate veterinary medical practices. Premier 4-H Science Award is available in this area at the State Fair.

First-Aid Kits: Because of public safety concerns and risk of theft of first-aid kit contents (veterinary drugs/equipment) with perceived potential for drug abuse, animal first aid kits containing any drugs or medications will be immediately disqualified and not displayed. First Aid Kits wishing to include medication information should instead utilize written descriptions, photographs, drawings, computer generated print-outs, or empty packaging of pharmaceuticals. Animal first aid kits submitted will be immediately disqualified and not shown.

Veterinary Science Posters: This exhibit presents the viewer with a design that is simple and direct, unlike a display that usually presents more information. A poster should not exceed 22 inches by 28 inches and may be either vertical or horizontal.

Veterinary Science Displays: A display may include but is not limited to: a three-dimensional exhibit, a scale model, the actual product (for example: skeleton; teeth; samples of leather, fur, or dried skin damaged by disease or

parasites) or a notebook. A display is not a poster. A display may be mounted on poster board not to exceed 22 inches by 28 inches or on ¼-inch plywood or equivalent that does not exceed 24 inches high or 32 inches wide or in a three ring binder or another bound notebook format.

Appropriate Veterinary Science Topics:

Maintaining health

Specific disease information

Photographic display of normal and abnormal characteristics of animals

Animal health or safety

Public health or safety

Proper animal management to ensure food safety and quality

Efficient and safe livestock working facilities

Or a topic of the exhibitor's choosing related to veterinary medicine or veterinary science.

Remember, since these are science displays, all references and information needs to be properly cited. Proper sources include but are not limited to: Professional journals and publications, professional AVMA accredited websites, interviews with Veterinarians and experts from Veterinary Educational Literature. Plagiarism will result in a disqualification. Please study your topic and present the information to your audience in your own words.

**Purple, \$3; Blue, \$2.50; Red, \$2; White, \$1.50**

\*H840001 Veterinary Science Large Animal Poster, Notebook or Display

\*H840002 Veterinary Science Small Animal/Pet Poster, Notebook or Display

**Purple, \$2; Blue, \$1.50; Red, \$1; White, \$0.50**

H840005 You be the Teacher: Share with others what you learned in the project. Exhibit may be a poster or foam core board (not to exceed 22 inches by 28 inches), a notebook or a small display of an educational nature.