

To view additional contest details, see the contest clarification sheet on the Michigan FFA Website

VETERINARY SCIENCE

Career Development Event

PURPOSE

The purpose of the veterinary science CDE is to promote college and career readiness by providing students with opportunities to develop technical knowledge and demonstrate practical skills in the field of veterinary science.

EDUCATIONAL STANDARDS

For educational standards, please refer to the Veterinary Science Handbook located at https://www.ffa.org/participate/cdes/veterinary-science/

TEAM MAKE-UP/ELIGIBILITY

All participants must be members in good standing with the Michigan FFA Association and on the official roster.

Equipment

Students are to **bring their own**:

- Pencils
- Clipboard
- Calculator

Dress Code

All participants must wear either scrubs (solid-color tops and bottoms) or business dress (no jeans with holes and a collared shirt).

CONTEST PERSONNEL

Judges

Judges will be selected by the contest superintendent.

Superintendent

The superintendent will monitor the contest room and assist the judges as they compile their scores.

The superintendent will adequately prepare the judges before the event competition.

PROCEDURE

Preliminary Round

All teams registered for the Veterinary Science contest will participate in the Preliminary Round testing. The teams finishing in the top 100 will be eligible to participate in the On-Site Finals.

The test will be administered at least 3 weeks prior to the contest date by Michigan FFA using a secure online testing platform with a locked down browser. See the Michigan FFA Calendar for the exact date of testing.

The Preliminary Round Exam will consist of 100 multiple choice questions:

- General Knowledge - 40 Questions
- Breed Identification - 30 Questions
- Equipment and Parasites - 30 Questions

Team score will be the total score of all 4 team members. Top 100 Team Scores will be eligible for the On-Site Finals.

On-Site Finals

The top 100 teams from the Preliminary Round will be eligible to compete at the On-Site Finals. Team member substitutions will only be permitted if necessary to maintain team eligibility.

The event will take approximately 3 to 3.5 hours.

Each student will complete four individual components including a) General Knowledge Exam, b) Breed Identification, c) Equipment, Tool and Parasite Identification, and d) a Practicum.

General Knowledge Exam

30 minutes | 100 points

50 multiple choice questions worth two points each. *Please see the appendix for the test bank of questions.*

Breed Identification

30 minutes | 100 points

Students must identify 50 breeds of animal taken from the breed list which will be presented to contestants to identify as photographs. Each breed identified will be worth two points.

Students will be provided the breed list during the competition & asked to place the number corresponding to a certain breed on the answer sheet. Breed identification slides will include the average size of the breed or species so that students will be able to accurately identify the animal from a picture. *Please see appendix A for the breed list.*

Equipment, Tool and Parasite Identification

30 minutes | 100 points

Each student will identify 50 surgical & animal care equipment, tools, and parasites (adults &/or eggs). Each item identified will be worth two points.

Students will be provided an equipment list and a parasite list during competition & asked to place the number corresponding to a certain piece of equipment or parasite on the answer sheet.

Approximately 40 pieces of equipment from a list and 10 parasites from a list will be selected to correctly be identified. Examples will be either real items or photographs. *See appendix B and C.*

Practicums

30 minutes | 100 points

Each student will perform one of four practicums.

Practicums may be performing the skill or answering questions related to performing that skill (Example: properly filling a syringe & administering

medication may be reading how much medication is in a syringe or if a medication is being administered using the right route rather than actually using a needle & syringe).

Practicums A, B, C and D will be completed by only one team member. Each team member will be assigned to one of these 4 practicums. No two team members will complete the same practicum.

Students will need to prepare for all 4 practicums and will be told at check-in which one of the following practicums they will be doing:

A. Patient History with filling out medical record & haltering with quick release knot – one team member *
B. Set up a fecal flotation & microscope usage – one team member *
C. Demonstrate a gauze muzzle application & properly filling a syringe & administering medication–one team member *
D. Bandage removal & prescription pill filling – one team member *

** See appendix D for rubric & chart.*

SCORES

The individual score will be calculated as follows:

General Knowledge Exam	100 points
Breed Identification	100 points
Equipment, Tool and Parasite Identification	100 points
Practicum	100 points
Total	**400 points**

The team score will be calculated with all 4 scores counting as follows:

Individual A Score	400 points
Individual B Score	400 points
Individual C Score	400 points
Individual D Score	400 points
Total	**1600 points**

Determining Awards

Gold and Silver awards will be determined by the Michigan FFA Association Executive Secretary.

Tie Breaker

In event of an individual tie, the placing will be determined in the order of:

1. General knowledge exam score
2. Breed identification score
3. First practicum score

ADDITIONAL MATERIALS

The following are suggested references to use in preparation for this CDE:

Veterinary Medicine

Veterinary Assistant: Fundamentals & Applications by Beth Vanhorn & Robert W. Clark – Delmar Publishing 2011.
Principles & Practice of Veterinary Technology by Paul W. Pratt
The Merck Veterinary Manual – Merck & Co. or http://www.merckvetmanual.com/
Veterinary Science Teachers Guide – Team Ag Ed & Cornell Educational Resources Program, 2003. (CDROM)
Veterinary Medical Terminology by Dawn Christenson

Small Animal Care

Small Animal Care & Management by Dean M. Warren, Delmar Publishing
Small Animal Handling & Restraint Handbook -
Introduction to Livestock and Companion Animals –Interstate Publishing

Large Animal Care

Handbook of Livestock Management by Richard A. Battaglia
Modern Livestock & Poultry Production by James R. Gillespie

Breed References

Breeds of Livestock—Oklahoma State University— http://www.ansi.okstate.edu/breeds/
American Kennel Club – The Complete Dog Book - www.akc.org

Cat Fanciers Association – www.cfa.org
American Rabbit Breeders Association – www.arba.net
American Cavy Breeders Association – www.acbaonline.com

Anatomy and Physiology
Introduction to Veterinary Science – Delmar