

VETERINARY SCIENCE

4 Member Team

IMPORTANT NOTE

Please thoroughly read the General CDE Rules Section at the beginning of this handbook for complete rules and procedures that are relevant to State FFA Career Development Events.

I. PURPOSE

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

II. OBJECTIVES

- A. Participants will demonstrate professional ethics, decision-making, communication and problem-solving skills.
- B. Participants will demonstrate technical competency with small and large animals in the areas of:
 1. Anatomy and physiology
 2. Clinical procedures
 3. Identification
 4. Health and safety
 5. Medical terminology
- Note: species will be focused on those that are observed in Oklahoma Veterinary Practices. These can include (but not limited to) dogs, cats, cattle, sheep, swine, horses, goats, rabbits, etc.

III. EVENT RULES

- A. A school may enter only one team, consisting of four members, in this event. The score for a team will be calculated from all four members' accrued points.
- B. Individuals or partial teams are not allowed to compete.
- C. Each contestant will participate in only one of the practicum activities.
- D. Only those students who are competing will be allowed to participate in this event.
- E. Any assistance given to a participant from any source during the event, other than an event official, will be sufficient cause to eliminate the team from the event.
- F. Various computer applications may be utilized throughout the event.
- G. Cell phones/personal devices will not be permitted in the contest. They will be collected and placed in the individual team folders belonging to the participants' school. Should an emergency occur and student need to contact their teacher/parent, they can temporarily obtain their phone at the check-in desk to make contact.

IV. EVENT FORMAT

A. Team Make-Up

Teams will consist of four members with all four members' scores counting toward the total team score.

B. Equipment

1. Students will provide pencils, **non-programmable calculators**, and a note and paper free clip board.
2. Contest officials will provide official scan sheet, notes paper, and specific tools and equipment needed to complete practicums.

C. Event Schedule

Individuals will complete each section of the event within the allotted time:

1. Written Exam-40 Minutes
2. Math Application-20 Minutes
3. Identification-20 Minutes
4. Practicum-7 Minutes
5. Team Activity-10 Minutes

D. Individual Activities

1. Written Exam (150 Points)

- i. The objective, multiple-choice exam is designed to determine team members' broad understanding of the veterinary science field. Some questions will be scenario based. The written exam will consist of 50 multiple-choice questions. Each question will be worth three points.

Topics for the exam may include:

- a. Behavior
- b. Disease (causes and sources, signs and symptoms)
- c. Medical terminology
- d. Medical Records
- e. Anatomy/physiology
- f. Regulations (federal OSHA, MSDS)
- g. Patient management
- h. Facility Management
- i. Genetics

2. Math Application (100 Points)

The number of math application questions will vary based on the type of activity that is assigned. Questions may include conversions (including metric system), dose calculations, dilutions, cost calculations, and invoices.

Unit conversion sheets will be provided to each student.

3. Identification (120 points)

Participants will identify equipment, parasites, and breeds/species. Identification can include PowerPoint, photos, specimens, and actual equipment. Identification lists are located at the end of the contest guidelines. Students will have a combination of 40 items in the following categories:

- i. Equipment –Participants will identify pieces of equipment (actual equipment and/or photos).
- ii. Parasites –Participants will identify parasites (actual and/or photos). Some parasite identifications may require use of a microscope. Microscopes will be provided.
- iii. Breeds –Participants will identify breeds of small and large animals (photos).

E. Team Activities

1. Practicums (50 Points)

Each team member will complete **one** practicum worth 50 points. Two students will be assigned for each of the practicum areas defined below, totaling four practicums (200 points). The students will not be made aware of the four practicum options until they enter the exam. They will have 30 seconds to decide which student will perform each practicum. They will be given a maximum of seven minutes to complete the practicum. Participants are expected to talk through the steps to a judge as they are being scored. Judges may speak and ask questions to the participant at the end of the activity. The scorecards can be found at the end of the contest guidelines. Live animals may or may not be used to perform the practicums listed below with an asterisk (*).

Following is the list of Handling and Restraining Practicums that students may be asked to perform:

- a. Restraint of the Small Dog for Jugular Venipuncture*
- b. Restraint of the Cat for Jugular Venipuncture*
- c. Restraint of the Dog for Cephalic Venipuncture*
- d. Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture*
- e. Restraint of the Cat for Cephalic IV Catheter Placement
- f. Applying Elizabethan Collar*
- g. Removing Dog From Floor Level Cage to Restrain for Lateral Saphenous Venipuncture
- h. Placing a Tail Tie*
- i. Restraint of a Rabbit

- j. Applying a Nylon Dog Muzzle*
- k. Applying a Gauze Dog Muzzle*
- l. Applying a Cat Muzzle*
- m. Haltering a Horse*
- n. Haltering Ruminants*
- o. Snare Restraint of the Pig*

ii. Clinical Procedures Practicum

Following is the list of Clinical Procedures Practicums that students may be asked to perform. Please be familiar with safe handling of sharp objects, including needles, scalpels, etc.

- a. Bandage Removal
- b. Opening a Surgery Pack
- c. Administering an Intramuscular Injection
- d. Administering Oral Tablet/Capsule
- e. Prescription Filling
- f. Administering a Subcutaneous Injection
- g. Administering Aural Medication
- h. Administering Ophthalmic Medication
- i. Prepare a Surgical Pack for Sterilization
- j. Surgical Site Preparation
- k. Fecal Flotation with Fecalyzer
- l. Removal of Sutures
- m. Filling a Syringe for Injection

2. Team Activity (400 points)

- i. Teams will conduct research using local veterinarians and veterinary resources based on the annual topic. In a **seven to eight minute** presentation, teams will demonstrate the different roles of the veterinary team, as well as explain steps and procedures for the veterinary process to the judges.

The 2019 team activity topic is: Antibiotic Stewardship: The role of the veterinarian and the Veterinary Client Patient Relationship (VCPR) in using antibiotics in livestock responsibly.

- ii. Judges will be allotted two minutes of question/answer time after each presentation.
- iii. The potential roles to be addressed in the team activity are listed below. Teams need to determine what roles are most important to demonstrate based on the annual topic.

Veterinary team roles may include, but are not limited to:

- a. Veterinary technician
- b. Veterinarian
- c. Veterinary assistant
- d. Receptionist

- e. Farm manager
 - f. Owner/client
 - g. Kennel/stable assistant
- iv. The presentation can be creative in nature and teams may include props but must be able to set up in two minutes and tear down in one minute. Some common props will be provided and teams are encouraged to set up and tear down as quickly as possible. PowerPoint presentations cannot be utilized in the team activity. See team activity rubric at the end of contest guidelines.

II. SCORING

	Individual Points	Team Points
Written Exam	150	600
Math Application	100	400
Identification	120	480
Practicum	50	200
Team Activity		400
Total	420	2,080

III. TIEBREAKERS

Tiebreakers will be settled in the following order:

1. Combined individual practicum total score
2. Combined individual written exam total score

IV. REFERENCES

Small Animal Care and Management. Warren. ISBN: 978-4180-4105-2
Animal Science – 3rd Edition, CIMC – www.okcimc.com, (AG3006)

Websites for Identification:

American Kennel Club – <http://www.akc.org/index.cfm>

Cat Fanciers' Association – <http://www.cfa.org/client/breeds.aspx>

American Rabbit Breeders Association – <http://www.arba.net/>

OSHA – <http://www.safetyvet.com/osha/oshamain.htm>

V. SUPPLEMENTAL MATERIALS AND FORMS

Scoring Rubrics

Official Oklahoma Veterinary Science ID List

Veterinary Science Scantron

2019 Oklahoma FFA Veterinary Science ID List

Equipment and Materials

001	Ambubag	033	Fetal extractor – calf	063	Scissors – suture wire cutting
002	Anesthetic machines	034	Forceps – Alligator	064	Scissors – Lister bandage
003	Autoclave	035	Forceps – Allis tissue	065	Scissors – Littauer suture removal
004	Autoclave tape indicator	036	Forceps – Babcock tissue	066	Scissors – Mayo dissecting
005	Backhaus towel clamps	037	Forceps- Brown-Adson thumb	067	Scissors – Metzenbaum dissecting
006	Balling gun	038	Forceps – Crile	068	Silver nitrate sticks
007	Bandaging material – Elasticon	039	Forceps – Kelly	069	Small animal oxygen cage
008	Bandaging material – roll gauze	040	Forceps – Halstead mosquito	070	Snook ovariohysterectomy hook
009	Bandaging material – vet wrap	041	Forceps – Rat tooth thumb	071	Speculum – large animal oral
010	Bands (castration or docking)	042	Gravity feeder – J tube	072	Speculum – small animal oral
011	Cat bag	043	Head gate	073	Speculum - vaginal
012	Catch pole (dog snare)	044	Hog snare	074	Squeeze chute
013	Catheter – butterfly	045	Hoof knife	075	Speculum – vaginal
014	Catheter – IV	046	Hoof rasp	076	Squeeze chute
015	Catheter – Tomcat urinary	047	IV administration set	077	Staple remover
016	Centrifuge	048	Laparoscope	078	Stethoscope
017	Chemical indicator strips	049	Laryngoscopes	079	Surgical drapes
018	Cold sterile tray	050	Muzzle – basket	080	Suture needle – cutting
019	Dehorner – Barnes	051	Muzzle – nylon	081	Suture needle – taper
020	Dehorner – electric	052	Needle holder – Mayo-Hegar	082	Syringe – automatic, multi-dose
021	Dental floats	053	Needle holder – Olsen-Hegar	083	Tattooing instruments – sm. & lg.
022	Dental scaler	054	Obstetrical chain and handle	084	Tonometer
023	Drench gun – small ruminant	055	Ophthalmoscope	085	Tourniquet
024	Ear notcher	056	Otoscope	086	Trocar and cannula
025	Elastrator	057	Pig tooth nippers	087	Twitch – chain
026	Elizabethan collar	058	Radiology personal protective equip	088	Twitch – humane
027	Emasculators	059	Rectal prolapse ring – swine		
028	Endoscope	060	Rumen magnet		
029	Endotracheal tubes	061	Scalpel blade		
030	Fecal loop	062	Scalpel handle		
031	Fecalyzers				
032	Feeding tube for small animals				

Parasite/Microscopic Identification List

- 089 Blowfly (Family Calliphoridae)
- 090 Calcium oxalate crystals
- 091 Cat warble (Genus Cuterebra)
- 092 Cocci (bacteria)
- 093 Coccidia (Genus Isospora or Eimeria)
- 094 Demodectic mite (Genus Demodex)
- 095 Ear mite (Family Psoroptidae; Genus Otodectes)
- 096 Eosinophils
- 097 Epithelial cells (urine)
- 098 Flea Larva (Genus Ctenocephalides)
- 099 Flea tapeworm egg* (Genus Dipylidium)
- 100 Flea tapeworm segment* (Genus Dipylidium)
- 101 Flea tapeworm* (Genus Dipylidium)
- 102 Fleas* (Genus Ctenocephalides)
- 103 Giardia* (Genus Giardia)
- 104 Heartworm adult* (Genus Dirofilaria)
- 105 Heartworm microfilaria* (Genus Dirofilaria)
- 106 Hookworm adult* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus)
- 107 Hookworm egg* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus)
- 108 Horse Bot* (Genus Gasterophilus)
- 109 Horse Strongyles* (Family Strongylidae; Genus Strongylus)
- 110 Lice – Biting (Order Mallophaga; Genus Bovicola or Trichodectes)
- 111 Lice – sucking (Order Anoplura; Genus Linognathus or Hematopinus)
- 112 Liver fluke (Class Trematoda; Genus Fasciola; Fascioloides or Dicrocoelium)
- 113 Mosquito adult (Family Culicidae; Genus Anopheles, Culex, or Aedes)
- 114 Mosquito larva (Family Culicidae; Genus Anopheles, Culex, or Aedes)
- 115 Neutrophils
- 116 Platelets
- 117 Red blood cell (erythrocyte)
- 118 Rod (bacteria)
- 119 Roundworm adult* (Family Acarididae or Toxocaridae; Genus Toxocara, Toxascaris, Ascaris, Parascaris, or Neoascaris)
- 120 Roundworm egg* (Family Ascarididae or Toxocaridae; Genus Toxocara, Toxascaris, Ascaris, Parascaris, or Neoascaris)
- 121 Sarcoptic mite (Family Sarcoptidae; Genus Sarcoptes or Notoedres)
- 122 Struvite crystals (triple magnesium phosphate)
- 123 Taenia tapeworm egg* (Family Taeniidae; Genus Taenia)
- 124 Taenia tapeworm segment* (Family Taeniidae, Genus Taenia)

- 125 Taenia tapeworm (Family Taeniidae; Genus Taenia)
- 126 Tick – American Dog (Family Dermacentor; Genus variabilis)
- 127 Tick – Black legged deer (Family Ixodes; Genus scapularis)
- 128 Tick – Brown dog (Family Rhipicephalus; Genus sanguineus)
- 129 Tick – Lonestar (Family Amblyomma; Genus americanum)
- 130 Whipworm egg* (Genus Trichuris)
- 131 Whipworm* (Genus Trichuris)
- 132 Yeast (cytology)

*Asterisk indicates which parasite life cycles could have written examination questions.

Breed/Species Identification List

DOGS – HERDING GROUP

- 133 Australian Cattle Dog
- 134 Australian Shepherd
- 135 Border Collie
- 136 Collie
- 137 German Shepherd Dog
- 138 Old English Sheepdog
- 139 Pembroke Welsh Corgi
- 140 Shetland Sheepdog

DOGS – HOUND GROUP

- 141 Afgan Hound
- 142 Basenji
- 143 Basset Hound
- 144 Beagle
- 145 Black & Tan Coonhound
- 146 Bloodhound
- 147 Dachshund
- 148 Greyhound
- 149 Rhodesian Ridgeback

DOGS – NON-SPORTING GROUP

- 150 Bichon Frise
- 151 Boston Terrier
- 152 Bulldog
- 153 Chinese Shar-Pei
- 162 Chow Chow
- 163 Dalmation
- 164 Poodle

DOGS – SPORTING GROUP

- 165 Brittany Spaniel
- 166 Cocker Spaniel
- 167 English Setter
- 168 German Shorthair Pointer
- 169 Golden Retriever
- 170 Irish Setter
- 171 Labrador Retriever
- 172 Weimaraner

DOGS – TERRIER GROUP

- 173 Bull Terrier
- 174 Cairn Terrier
- 175 Parson Russell Terrier
- 176 Scottish Terrier

DOGS – TOY GROUP

- 177 Cavalier King Charles Spaniel
- 178 Chihuahua
- 179 Miniature Pinscher
- 180 Papillon
- 181 Pekingese
- 182 Pomeranian
- 183 Poodle
- 184 Pug
- 185 Shih Tzu
- 186 Yorkshire Terrier

DOGS – WORKING GROUP

- 187 Bernese Mountain Dog
- 188 Boxer
- 189 Doberman Pinscher
- 190 Great Dane
- 191 Great Pyrenees
- 192 Mastiff
- 193 Newfoundland
- 194 Portugese Water Dog
- 195 Rottweiler
- 196 Saint Bernard
- 197 Siberian Husky
- 198 Standard Schnauzer

CATS

- 199 Abyssinian
- 200 American Shorthair
- 201 Burmese
- 202 Maine Coon
- 203 Manx
- 204 Persian
- 205 Ragdoll
- 206 Russian Blue
- 207 Siamese
- 208 Sphynx

BIRDS

- 209 African Grey Parrot
- 210 Canary
- 211 Cockatiel
- 212 Cockatoos
- 213 Love Birds
- 214 Macaw
- 215 Parakeet
- 216 Sun Conure
- 217 Zebra Finch

REPTILES

- 218 Bearded Dragon
- 219 Chameleon
- 220 Gecko
- 221 Iguana

POULTRY

- 222 Chicken - Cornish
- 223 Chicken – Leghorns
- 224 Chicken – Plymouth Rock
- 225 Chicken – Rhode Island Red
- 226 Duck
- 227 Geese
- 228 Quail
- 229 Turkey

SMALL MAMMALS

- 230 Chinchilla
- 231 Ferret
- 232 Gerbils
- 233 Guinea Pig
- 234 Hamster
- 235 Hedgehog
- 236 Sugar Glider

RABBITS

- 237 Angora
- 238 Californian
- 239 Dutch
- 240 English Spot
- 241 Holland Lop
- 242 Mini-Rex
- 243 Netherland Dwarf
- 244 New Zealand

DAIRY CATTLE

- 245 Ayrshire
- 246 Brown Swiss
- 247 Guernsey
- 248 Holstein
- 249 Jersey

BEEF CATTLE

- 250 Angus
- 251 Brahman
- 252 Charolais
- 253 Hereford
- 254 Shorthorn
- 255 Simmental

HORSE

- 256 Appaloosa
- 257 Arabian
- 258 Belgian
- 259 Clydesdale
- 260 Morgan
- 261 Paint
- 262 Percheron
- 263 Quarter Horse
- 264 Saddlebred
- 265 Tennessee Walking
- 266 Thoroughbred

GOAT

- 267 Alpine
- 268 Nubian
- 269 Angora
- 270 Boer
- 271 LaMancha
- 272 Saanen
- 273 Toggenburg

SHEEP

- 274 Columbia
- 275 Dorper
- 276 Dorset
- 277 Hampshire
- 278 Merino
- 279 Rambouillet
- 280 Southdown
- 281 Suffolk

SWINE

- 282 American Landrace
- 283 Berkshire
- 284 Chester White
- 285 Duroc
- 286 Hampshire
- 287 Yorkshire

**Veterinary Science
Handling and Restraining Practicum**

Restraint of the Small Dog for Jugular Venipuncture

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student puts a noose leash on the dog and has the dog sit.	10	
The student places one arm around the dog's neck and places the other arm around the dog's back to grasp the forelimbs.	10	
The student pushes the dog's back with his/her body to encourage the dog to lie down.	10	
The student holds the head up under the jaw, away from the chest (can be achieved by cupping hand underneath the muzzle and by pushing the head upward).	10	
The student's other hand grasps the front legs and extends them over the end of the table.	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Restraint of the Cat for Jugular Venipuncture

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student places the cat in sternal recumbency with its chest close to the edge of the table	10	
The student controls and lifts the head up by placing their thumb and forefingers over top of the head, holding their fingers firm on zygomatic arches (below eyes)	10	
The student's other hand grasps the front legs and extends them down off the edge of the table	10	
The student uses their arm and elbow to restrain the cat's body close to the student's body	10	
The student spoke to the patient in a calm and affectionate manner during the procedure	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Restraint of the Dog for Cephalic Venipuncture

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student places a noose leash on the dog	5	
The student restrains the dog in sternal recumbency	5	
The student stands on the dog's right side; wrapping his/her right arm around the dog's neck	10	
The student holds the dog's left forelimb with elbow in the palm of his/her hand; extend the limb forward toward the person performing the procedure	10	
With the elbow of the dog in his/her palm, the student rotates his/her thumb up so it is on top of the limb at the bend of the elbow	10	
The student occludes the vessel with the thumb, rotates the thumb laterally	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student places the cat on an examination table	10	
The student scruffs the cat with one hand and lifts it off of the table enough to grasp both hind legs with his/her other hand or reach under cat to grasp both hind limbs	10	
The student lays the cat on its side with the hind legs stretched rearward	10	
The student tucks top rear leg and tail while occluding with side of hand	10	
The student spoke to the patient in a calm and affectionate manner during the procedure	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Restraint of the Cat for Cephalic IV Catheter Placement

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student places the cat in sternal recumbency on an examination table	10	
The student controls and lifts the head up by placing up by placing thumb and forefingers over top of head, fingers firm on zygomatic arches (below eyes)	10	
The student extends the left front limb forward by grasping the elbow in the palm of his/her hand with thumb on the top of the elbow joint	10	
The student allows the judge to grasp the left front paw and extend the limb toward him/her	10	
The student occludes the vein by pressing down on the top of the elbow joint with his/her thumb and then rotating his/her thumb laterally	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Applying Elizabethan Collar

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student chooses the correct size of E-collar for the patient	10	
The student correctly prepared the E-collar for placement	10	
The student correctly placed the E-collar on the animal	10	
Placement was adequately secured so the animal could not remove the E-collar	10	
The E-collar was secured such that the animal's breathing was not restricted	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Removing Dog From Floor Level Cage to Restrain for Lateral Saphenous Venipuncture

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student places a leash in one hand with a large loop in the correct position (in the "P") and ready to place over the dog's head	5	
While blocking the opening, the student opens the cage door enough to slip the hand holding the leash into the cage	5	
The student slips the leash over the neck of the dog and gently tightens the leash around the neck	5	
The student opens the door and allows the dog to exit the cage	5	
The student lifts the dog and places it on the table	5	
The student places his/her right arm across the dog's neck and reaches between the front legs to grasp the dog's right forelimb in the right hand	5	
The student places the left arm over the dog's back and reaches for the dog's right rear limb; just proximal to the hock	5	
With the dog's body close, the student gently lifts the limbs while allowing the dog's body to lay on the table; the dog should be on its right side	5	
The student re-positions his/her right arm over the dog's neck and grasps the right forelimb with that same arm	5	
The student re-positions his/her left arm to grasp the hind limb tightly in the area just distal to the stifle, which will occlude the vein	5	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Placing a Tail Tie

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student lays the rope over the tail at the tip of the tail bone	10	
The student folds all the tail hairs up over the rope	10	
The student passes the short end of the rope behind the tail, and makes a fold or bight in it	10	
The student passes the fold or bight over the folded tail and under the rope, which is looped around the tail	10	
The student pulls tight	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Restraint of a Rabbit

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student approaches the rabbit calmly and quietly	10	
The student scruffs the rabbit with one hand while gently lifting the front end	10	
The student's other hand immediately reaches under the hind limbs and holds them (not allowing the hind limbs to dangle)	10	
The student rests the rabbit's body on the arm with the hand holding the hind limbs	10	
The scruffing hold is released and the hand is moved to hold the rabbit's outside front leg	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Applying a Nylon Dog Muzzle

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student selects the appropriate muzzle	5	
The student places the dog in sitting or sternal position on the exam table or floor	5	
The student comes from behind the dog's head with the muzzle in one hand in the correct position	10	
The student brings the muzzle up to the dog's face and slips it on while grasping the strap with the other hand	10	
The student secures the muzzle	10	
The student checks for proper fit (one finger inserted under the strap)	10	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Applying a Gauze Dog Muzzle

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student selects proper type of material and length	5	
The student places the dog in sitting or sternal position on the exam table or floor	5	
The student makes a loop in the gauze and approaches the dog from behind	10	
The student places the loop around the dog's muzzle with the tie on top	10	
The student quickly tightens the loop, and then crosses the ends under the dog's muzzle	10	
The student brings the ends back above the dog's muzzle and ties the gauze in a quick-release bow	10	
TOTAL POINTS	50	

Handling and Restraining Practicum

Applying a Cat Muzzle

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student opens the cage door and calls the cat by name	4	
The student scruffs the cat with one hand and lifts it up	4	
The student cradles the cat's abdomen with their other hand and removes the cat from the cage	4	
With the cat still scruffed, the student places the cat under one arm close to their body and closes the cage door with their free hand	4	
The student places cat on table	4	
The student selects a muzzle of appropriate size for the cat	5	
The student places the cat in sitting or sternal position on exam table	4	
The student positions the muzzle properly in his/her hands	5	
The student approaches the cat from behind with the muzzle in both hands while another person restrains cat	6	
The student brings the muzzle up to the cat's face in one swift motion	4	
The student secures the muzzle	6	
TOTAL POINTS	50	

**Veterinary Science
Handling and Restraining Practicum**

Haltering a Horse

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
Without quick movements and loud noises, the student properly approaches the patient at a 45 degree angle to the patient's left shoulder	8	
The student places end of the lead rope over the horse's neck and passes sufficient length of lead to form a handheld loop around the horse's neck	8	
Holding the handheld loop in their right hand, with their left hand, the student slip the nose-band of the halter over the nose	8	
Student releases the lead rope and with their right hand under the horse's neck, the student passes the crown strap over the head and behind the ears and attaches the end to the appropriate place on the halter	8	
The student snaps the end of the lead to the lead ring of the halter and undrapes the lead rope from the horse's neck	8	
The student adjusts the halter so it is snug enough that the nose piece could not fall over the end of the nose, but not so tight that the halter cut or rubbed the horse or restricted jaw movement or breathing	10	
TOTAL POINTS	50	

Handling and Restraining Practicum

Haltering Ruminants

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
Without quick movements and loud noises, the student properly approaches the patient at a 45 degree angle to the patient's left shoulder	10	
The student places crown piece of halter over the ears, then slips the noxe through the nose piece	10	
The student properly adjusts the halter such that the nose band crosses over the bridge of the nose halfway between the nostrils and eyes	10	
The student ensures that the adjustable portion of the nose band is under the chin, not across the bridge of the nose	10	
The student keeps the standing end or lead rope portion on the left side of the ruminant	10	
TOTAL POINTS	50	

Handling and Restraining Practicum

Snare Restraint of the Pig

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student, standing next to the patient, guided the loop of the snare into the mouth and over the nose or upper jaw	5	
The student made sure the loop is inserted far enough into the patient's mouth	8	
The student pulled the loop tight when it is in the proper position	8	
The student kept the loop tight while moving to the front of the patient	10	
The student maintained the pressure on the snare so that the patient could not escape	7	
The student kept control of the patient until the patient ceased to struggle	7	
The student released the patient after the procedure was completed	5	
TOTAL POINTS	50	

Clinical Procedures Practicum

Bandage Removal

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student chooses the bandage scissors and holds in proper orientation	10	
The student keeps the blade flat against the body and the tip raised slightly upward in contact with bandage	10	
The student begins cutting each layer from the distal end moving proximally	10	
The student gently removes each layer of bandage	10	
The student notes the status of the unbandaged area and states if it is normal or if there are any problems	6	
The student cleans up work area	4	
TOTAL POINTS	50	

Clinical Procedures Practicum

Opening a Surgery Pack

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student placed the surgery pack on a clean, dry surface	4	
The student removed or tore the tape securing the package	4	
The student opened the first flap away from them	8	
The student opens the side flaps without reaching across open pack	8	
The student opens the last flap towards them	8	
The student opened the pack without contamination	12	
The student stepped away so the surgeon or scrub nurse could complete the opening of the pack	6	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Administering an Intramuscular Injection

Participant Name: _____ Letter/#: ____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student selected the proper site for administration	10	
The student directs the needle through the skin and into the muscle	10	
The student aspirates; if no blood is noted, inject	10	
The student withdraws the needle and places in the sharps container	10	
The student massages the area where the injection was given and praises the patient	10	
TOTAL POINTS	50	

Clinical Procedures Practicum

Administer Oral Tablet/Capsule

Participant Name: _____ Letter/#: ____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student reads and interprets the veterinarian's order	10	
The student selects the correct drug and concentration	20	
The student was able to open the mouth of the animal	5	
The student maintained control of the head or muzzle during the administration of the medication	5	
The student used an appropriate technique to encourage the patient to swallow	5	
The student was able to control the animal in a manner that was adequate to administer the medication yet did no harm to the patient	5	
TOTAL POINTS	50	

Clinical Procedures Practicum

Prescription Filling

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student reads and verbally interprets prescription	10	
The student selects the correct drug and concentration	20	
The student places the pill counting tray on the pharmacy counter with the channel to the left and the open plate in front of him/her	1	
The student pours the medication tablets or capsules onto the tray plate	1	
The student opens the channel cover	1	
The student uses a spatula or tongue depressor to push groups of tablets or capsules into the channel	1	
When the student has counted the desired amount of medication, he/she closes the channel cover. The student tilts the tray to return the unused medicine into the stock bottle	4	
The student lifts the tray to place the channel spout into the medicine vial and transfers medication	4	
The student places the lid on the vial and sets it on the counter	1	
The student appropriately fills out label with prescription information	7	
TOTAL POINTS	50	

Clinical Procedures Practicum

Administering a Subcutaneous Injection

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student lifts the skin using the thumb and forefinger forming a triangle or tent with the skin	10	
The student inserts the needle into the skin at the base of the tent or triangle parallel to the body	10	
The student aspirates; looking for any signs of blood entering the syringe; if no blood enters the syringe, the student administers the injection	10	
The student withdraws the needle and places in the sharps container	10	
The student rubs the injection site and praises the patient	10	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Administering Aural Medication

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student successfully administered the proper amount of medication into the ear canal. Ear pinna is held upright Correct amount of medication was administered without contamination	30	
The student massages the base of the outside of the ear canal causing a swishing sound from the medication moving around in the ear canal	10	
The student wipes any solution that may have leaked onto the outside of the ear flap or hair	10	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Administering Ophthalmic Medication

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student wipes any discharge from the patient's eye using a gauze sponge or cotton ball	5	
The student opens the end of the ophthalmic medication	10	
The student uses the index finger and thumb to pull the upper and lower lids apart to open the eye The student's thumb pulls the lower lid down and the index finger pulls the upper lid upward The student's other finger may rest on the head of the animal	10	
While resting the hand holding the medication on the head of the patient, the student applies the drops or ointment gently into the eye without touching the eye, counting each drop or applying the proper amount of ointment without contamination.	10	
The student releases the eyelids	10	
The student allows the animal to blink to move the medication throughout the eye	5	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Prepare a Surgical Pack for Sterilization

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student gathered the appropriate instruments and instrument pan if applicable	5	
The student gathered additional supplies if applicable	10	
The student selected the appropriate packaging material and chemical indicator	10	
The student assembled the pack correctly by following the instructions on the checklist or recipe	10	
The student placed the chemical indicator in the correct area of the pack	10	
The student properly wrapped, secured and labeled the pack	5	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Surgical Site Preparation

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student applied antiseptic scrub to the clipped area	5	
The student prepped the clipped area with a clean surgical sponge beginning at the incision site moving in a circular motion and working toward the edges	10	
The student did not bring the sponge back to the incision site once it was moved away from the incision site	10	
The student discarded the sponge once it reached the outer edge of the clipped area	10	
The student wiped the clipped area with a rinse solution using a clean surgical sponge following the same pattern as when scrubbing with the antiseptic	10	
The student repeated the scrub and rinse a minimum of three times or until the final rinse sponge was clean	5	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Fecal Flotation with Fecalyzer

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student selected about ¼ teaspoon of feces and placed it into a fecalyzer	6	
The student added enough flotation solution to fill the fecalyzer about half full	6	
The student mixed the feces into solution until no large fecal particles remain	6	
The student places insert into fecalyzer	6	
The student filled the vial with more solution until there was a visible meniscus at the top	6	
The student placed a cover slip on top of the fecalyzer	6	
The student allowed the vial to sit undisturbed for 10-15 minutes	6	
The student carefully removed the cover slip without tilting it and placed it on a microscope slide	8	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Removal of Sutures

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student clearly visualized and inspected the incision site	10	
If there were problems with the incision site, the student informed the veterinarian. If there were no problems, the student removed the sutures	10	
The student chose the correct tool to remove the sutures	10	
The student placed the curved blade underneath the suture for removal and removed the suture	15	
The student did not cause unnecessary harm or discomfort to the patient	5	
TOTAL POINTS	50	

**Veterinary Science
Clinical Procedures Practicum**

Filling a Syringe for Injection

Participant Name: _____ Letter/#: _____ School: _____

Participant must talk through practicum steps with judge.

CRITERIA	Points Possible	Points Earned
The student determines the amount to be placed in the syringe	6	
The student selects the proper-sized syringe	8	
The student inserts the syringe into the top of the bottle	6	
The student places the bottle upside down in one hand and holds securely	6	
The student withdraws the proper volume. 6 The student removes the syringe from the bottle	6	
The student gently taps or snaps the edge of the syringe to remove any air bubbles, or slightly expel the air by pushing the end of the plunger	6	
The student places syringe in the sharps container	6	
TOTAL POINTS	50	

Team Activity Presentation Rubric – 400 points

Indicator	Very strong evidence of skill	Moderate evidence of skill	Weak evidence of skill	Total Score
Non Verbal – 100 points				
Attention (eye contact)	Eye contact continuously used as effective connection (90-100% of the time)	Eye contact is mostly effective and consistent. Mostly looks around 60-80%	Eye contact does not always allow connection with speaker. Occasionally looks at someone <50%	
Mannerisms	Does not have distracting mannerisms that affect effectiveness	Sometimes has distracting mannerisms that pull from the presentation	Has mannerisms that pull from effectiveness of the presentation	
Gestures	Purposeful and effective. Hand motions are expressive, and used to emphasize talking points. Confident with body language	Usually uses purposeful gestures. Hands are sometimes used to express or emphasize. Occasionally slumps or uses negative body language	Occasionally gestures are used effectively. Hands are not used to emphasize talking points. Hand motions are sometimes distracting. Lacks positive body language	
Oral – 100 points				
Speaking without hesitation	Speaks very articulately without hesitation. Never has the need for unnecessary pauses or hesitation when speaking.	Speaks articulately, but sometimes hesitates. Occasionally has the need for a long pause or moderate hesitation while speaking.	Speaks articulately, but frequently hesitates. Frequently hesitates or has long, awkward pauses while speaking	
Tone	Appropriate tone is consistent. Speaks at the right pace to be clear. Pronunciation of words is very clear and intent is apparent	Appropriate tone is usually consistent. Speaks at the right pace most of the time, but shows some nervousness. Pronunciation of words is usually clear, but vague sometimes.	Has difficulty using appropriate tone. Pace is too fast, nervous. Pronunciation of words is difficult to understand; unclear.	

All team members participated	All team members took an active role in the presentation	Three team members took an active role in the presentation.	Two or less members took an active role in the presentation.	
Content – 200 points				
Veterinary topic research	Demonstrates prior research and preparedness of the veterinary topic. Full understanding of the disease/veterinary process. Full understanding of treatment protocols and/or recommendation for the topic	Demonstrates somewhat prior research and preparedness of the veterinary topic. Somewhat understanding of the disease/veterinary process. Somewhat understanding of treatment protocols and/or recommendation for the topic.	Does not demonstrate prior research or preparedness of the veterinary topic. Does not understand the disease/veterinary process. Does not understand the treatment protocols and/or recommendation for the topic.	
Demonstrates knowledge of the topic	Presentation supports strong knowledge of the subject with good evidence of support	Presentation supports some knowledge of the subject with fair evidence of support.	Presentation supports little knowledge of the subject with poor evidence of support.	
Q&A: Knowledge of the topic	Participants' knowledge of the topics: strong knowledge with solid answers. Speaks unrehearsed with comfort and ease. Is able to speak quickly with organized thoughts and concise answers.	Participants' knowledge of topic: somewhat knowledgeable but with less concise and clear answers. Speaks unrehearsed mostly with comfort and ease, but sometimes seems nervous or unsure. Is able to speak effectively, has to stop and think sometimes, and gets off focus.	Participants' knowledge of topic: Little knowledge with weak evidence to support answers. Shows nervousness and seems unprepared when speaking unrehearsed. Seems to ramble or speak before thinking.	
TOTAL POINTS/400				