

***VETERINARY SCIENCE
CAREER DEVELOPMENT EVENT***

RULES AND REGULATIONS

TEAM COMPETITION



ALABAMA FFA ASSOCIATION

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Alabama State Department of Education, Dr. Eric G. Mackey, State Superintendent of Education

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Revised October 2022
Veterinary Science CDE

VETERINARY SCIENCE CAREER DEVELOPMENT EVENT

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 skills in the field of veterinary science.

OBJECTIVES

Participants will demonstrate professional ethics, decision-making, communication and problem-solving skill.

Participants will demonstrate technical competency with small and large animals in the areas of anatomy and physiology; clinical procedures; identification; health and safety; and medical terminology.

ELIGIBILITY AND REGULATIONS

- For specific eligibility of participants, refer to the Contest and Awards Booklet.
- There will be a district elimination for this event. The top four teams in each district will advance to the state event.
- If a cell phone or smart watch is seen or heard in the possession of a competitor, that individual student will be disqualified from competition and receive a score of zero. Any participant in possession of an electronic device in the event area is subject to disqualification.
- Competitors must enter their **first and last name** as well as their **chapter number and name** on the scorecard or they will receive a score of zero. Judges will not attempt to figure out who the card belongs to.
- NO jewelry may be worn on the day of the state event, including rings, bracelets, earrings and exposed body piercing. Wrist watches are permitted.

DISCLAIMER

In the event that contests (CDE, LDE, TDE's) cannot be held in person, a virtual option may be conducted. Contest rules and guidelines are subject to change to meet the needs of a virtual experience.

DRESS CODE

Participants must wear closed toed shoes/boots (no sandals, crocs or slides) and long pants (jeans with no holes/ khakis/dress pants) or skirts that cover the knees if not in official dress. Leggings, jogging pants, yoga, lycra, are not permitted. Shirts should be long enough to be tucked in (no crop tops or midriff showing) and not contain vulgar or suggestive material or language. Contest where oral reasons are given should respect the professionalism of the event, and dress aligning with the profession is preferred. Official FFA Dress is an allowable form of dress for all events. **Consequences for not being in dress code will be a 25 % deduction in scores**

ALTERNATE POLICY

For district level events, if a chapter brings alternates there will be no more than two alternates allowed per team. Alternates will use a copy of the scan form (not an original) for those events scored via judgingcard.com. If more than four official scan forms are turned in for a chapter in one event, the highest score(s) for that team will be disqualified and deleted until the chapter only has four team members in the scoring system. Alternates must not be in groups with official team members.

For state level events, alternates are not allowed.

STATE AWARDS/SPONSOR(S):

Refer to Alabama FFA Contests and Awards Booklet at http://www.alabamaffa.org/forms_applications.htm

EVENT RULES

1. The team will consist of a maximum of four members. The team's total score will be based on the sum of the points earned by the three highest scoring participants on the team.
2. Students will need to bring number 2 pencils, calculators and clipboards (STATE ONLY).
3. Alabama FFA and the Auburn University College of Veterinary Medicine will provide paper, specific tools and equipment needed to complete practicums in the state event.
4. Because of sanitation reasons, some items needed in the event, such as stethoscopes will need to be provided by the participant or their chapter. Teams will be provided a list of specific items needed for a specific year based on the event activities. (STATE ONLY)
5. **District contests will consist of *the following* phases:**
 - Written Exam – 100 points
 - Identification – 100 points
 - Total Individual Score – 200 points
 - Total Team Score – 600 points

WRITTEN EXAMINATION (100 points) - Each participant will have 40 minutes to complete the 50 multiple choice questions. The objective exam is designed to determine team members' broad understanding of the veterinary science field. Topics for the exam may include behavior, disease (causes and sources, signs and symptoms), medical terminology, medical records, anatomy/physiology, regulations (federal, OSHA, MSDS), patient management, facility management, genetics, nutrition and husbandry.

IDENTIFICATION (100 points total) – Participants will identify equipment, parasites, and breeds/species for a total of 100 points (2 points per item). Fifty (50) minutes will be given for this activity. Identification lists are located at the end of this booklet.

Equipment – Participants will identify pieces of equipment (actual equipment and photos). Participants will also need to have general knowledge about the use for each item.

Parasites – Participants will identify parasites (specimen and photos) and explain the life cycles of selected parasites.

Breeds – Participants will identify breeds of small and large animals (photos).

6. State finals will consist of *the following* phases:

- Written Exam – 100 points
- Identification – 100 points
- Math Practicum – 100 points
- Clinical Practicum – 50 points
- Handling and Restraint Practicum – 50 points
- Team Activity – Topic posted in May – 100 points
- Total Individual Score – 500

WRITTEN EXAMINATION (100 points) - Each participant will have 40 minutes to complete the 50 multiple choice questions. The objective exam is designed to determine team members' broad understanding of the veterinary science field. Topics for the exam may include behavior, disease (causes and sources, signs and symptoms), medical terminology, medical records, anatomy/physiology, regulations (federal, OSHA, MSDS), patient management, facility management, genetics, nutrition and husbandry.

Sample written exam questions:

Which of the following is the intermediate host for the dog tapeworm?

- a. Mosquito
- b. Rodent
- c. Flea
- d. Tick

What is the primary body defense against bacteria that may cause disease?

- a. Skin
- b. Antibiotics
- c. Antigens
- d. Lymph nodes

TEST BANK will be available at the Alabama FFA Web site under contest tab.

IDENTIFICATION (100 points total) – Participants will identify equipment, parasites and breeds/species for a total of 100 points (2 points per item). Forty (40) minutes to complete the 50 multiple choice questions. Identification lists are located at the end of this booklet.

- Equipment – Participants will identify pieces of equipment (actual equipment and photos). Participants will also need to have general knowledge about the use for each item.
- Parasites – Participants will identify parasites (specimen and photos) and explain the life cycles of selected parasites.
- Breeds – Participants will identify breeds of small and large animals (photos).

MATH APPLICATIONS PRACTICUM (100 points) – There will be 20 math practicum questions. Participants will have thirty (30) minutes to complete the entire math application

practicum. Questions may include conversions, dose calculations, dilutions, cost calculations and invoices.

Example: Sophie, a golden retriever, and her owner have just moved from out-of-state and are re-establishing veterinarian relations at your clinic. Sophie's owner has provided you with her health records from her previous veterinarian. Sophie has been prescribed a diet plan by the previous veterinarian and had been coming into the clinic for weekly weight checks. Sophie's owner would like to continue the weekly checks. You weigh Sophie and record her weight as 19 kg. The owner would like you to tell her how much weight Sophie has lost. Sophie's last recorded weight was 43.2 pounds. How many pounds did Sophie lose since the last weighing? Answer: Sophie has lost 1.4 pounds since the last recorded weighing.

CLINICAL PRACTICUM (50 points) – Participants will be given one clinical procedure to complete. Students are expected to talk through the clinical procedure steps to a judge as they are being scored. Judges may ask participants for clarification on steps performed. All clinical procedure scorecards are linked or may be found at [Veterinary Science Handbook.pdf | Powered by Box](#). Some examples include Administering the following: Aural Medication, Ophthalmic Medication, Intramuscular Injection, Subcutaneous Injection, Bandage Removal, filling a Syringe for Injection, Fecal Flotation with Fecalyzer, Opening a Surgery Pack, Prepare a Surgical Pack for Sterilization, Surgical Site Preparation, Prescription Filling, Removal of Sutures, Administer Oral Tablets/Capsule Time 5 minutes per student

HANDLING AND RESTRAINT PRACTICUM (50 points) – Participants will be given one handling/restraint activities to complete (50 points each). Participants are expected to talk through the handling and restraining steps to a judge as they are being scored. Judges may ask participants for clarification on steps performed. All clinical procedure scorecards are linked or may be found at [Veterinary Science Handbook.pdf | Powered by Box](#). Some examples include, Removing a Cat from a Cage and Placing in a Cat Bag, Applying a Cat Muzzle, Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture, Restraint of the Cat for Jugular Venipuncture, Applying Gauze Dog Muzzle, Applying Nylon Dog Muzzle, Removing Dog from Floor Level Cage to Restrain for Lateral Saphenous Venipuncture, Restraint of the Small Dog for Jugular Venipuncture, Restraint of a Rabbit, Haltering Ruminants, Haltering a Horse, Applying Elizabethan Collar, Snare Restraint of the Pig Time 5 minutes per student

TEAM ACTIVITY 100 POINTS - Teams will conduct research using local veterinarians and veterinary resources based on the annual topic posted on the CDE webpage in May. The team will be provided a specific scenario when they begin their team activity. They will have a total of 15 minutes to prepare their presentation. Teamwork will be assessed during the plan development time.

Teams will evaluate the information provided and prepare the questions, diagnostics and recommendations as well as explain steps and procedures for the veterinary process in their plan.

Teams need to determine what aspects of veterinary medicine and roles are most important to demonstrate based on the annual topic. After preparation the team will be

required to give an oral presentation for a maximum of 8 minutes explaining decisions made by the team. All team members are expected to participate in the presentation.

The team will then be required to answer questions from judges regarding the decisions the team reached. Resources provided for the team activity may include diagnostic information like blood work, synopsis of disease state, treatment recommendations and cost information.

TIE BREAKERS

District Event

In the event of a team tie, tiebreakers will be settled in the following order: combined individual identification total score; combined individual written exam total score

In the event of an individual tie, tiebreakers will be settled in the following order: identification score; written exam score.

State Event

In the event of a team tie, tiebreakers will be settled in the following order: combined individual practicum total score; combined individual written exam total score. In the event of an individual tie, tiebreakers will be settled in the following order: combined practicum score; written exam score.

Equipment and Materials Identification List - Page 1

100. Ambubag
101. Anesthetic machines
102. Animal clippers
103. Autoclave
104. Autoclave tape indicator
105. Backhaus towel clamps
106. Balling gun
107. Bands (castration or docking)
108. Bandaging material- Elasticon
109. Bandaging material- roll gauze
110. Bandaging material- vet wrap
111. Basket muzzle
112. Betadine
113. Brush - Body (soft bristle)
114. Brush - Dandy (stiff bristle)
115. Brush - Slicker
116. Brush - Pin
117. Bulb syringe
118. Cat bag
119. Carmalt
120. Catch pole (dog snare)
121. Catheter - IV
122. Catheter - butterfly
123. Catheter - urine
124. Centrifuge
125. Chain twitch
126. Chemical indicator strips
127. Clipper blades
128. Clipper comb
129. Surgical drapes
130. Cold sterile tray
131. Comb - Curry
132. Comb - Flea
133. Comb - Scotch
134. Cover slips
135. Dehorner - Barnes
136. Dehorner - electric
137. Dehorner - scoop or tube
138. Dental floats
139. Dental retractor
140. Dental scaler
141. Disposable hypodermic needles
142. Drench gun
143. Ear notcher
144. Ear tags
145. Ear tag (metal) pliers
146. Elastrator
147. Elizabethian collar
148. Emasculators
149. Endotracheal tubes
150. Fecal loop
151. Fecalyzers
152. Feeding tube for small animals
153. Fetal extractor
154. Fingertip toothbrush
156. Forceps - Alligator
157. Forceps- Allis tissue
158. Forceps- Babcock tissue
159. Forceps- Brown-Adson thumb
160. Forceps- Crile
161. Forceps- Halstead mosquito hemostatic
162. Forceps- Kelly
163. Forceps - Rat tooth thumb
164. Mouth gag speculum (small)
165. Mouth gag speculum (large)
166. Gavage needle
167. Gravity feeder / J tube
168. Halter
169. Head chute
170. Hog snare
171. Hoof knife
172. Hoof nippers
173. Hoof pick
174. Hoof rasp
175. Hoof trimmers
176. Humane twitch
178. Identification tag applicator
179. IV fluids
180. IV administration
181. Laryngoscopes

Equipment and Materials Identification List - Page 2

- | | |
|--|--|
| 182. Lead rope | 205. Shedding blade |
| 183. Lead shank | 206. Silver nitrate sticks |
| 184. Needle holder - Mayo-Hegar | 207. Small animal oxygen cage |
| 185. Needle holder - Olsen-Hegar | 208. Snook ovariohysterectomy hook |
| 186. Microscope slides | 209. Squeeze chute |
| 187. Muzzle- commercial | 210. Staple remover |
| 188. Nail clippers - guillotine | 211. Steel lift table |
| 189. Nail clippers - plier | 212. Stethoscope |
| 190. Obstetrical chain and handle | 213. Surgical cap |
| 191. Ophthalmoscope | 214. Surgical gloves |
| 192. Otoscope | 215. Surgical gown |
| 193. Paste gun | 216. Surgical masks |
| 194. Pig tooth nippers | 217. Surgical tray |
| 195. Pill counting tray | 218. Suture materials |
| 196. Radiology personal protective equipment | 219. Suture needle |
| 197. Rumens magnet | 220. Suture wire cutting scissors |
| 198. Scalpel blade | 221. Syringe - leur lock |
| 199. Scalpel handle | 222. Syringe - slip tip |
| 200. Scissors- Bandage | 223. Syringe - automatic, multi-dose |
| 201. Scissors- Lister bandage | 224. Tattooing instruments - small & large |
| 202. Scissors- Littauer suture removal | 225. Tourniquet |
| 203. Scissors- Mayo dissecting | 226. Trocar & cannula |
| 204. Scissors- Metzenbaum dissecting | 227. Weight tape |

Parasite Identification List

300. **Blowfly** (Family Calliphoridae)
301. **Blowfly Maggot** (Family Calliphoridae)
302. **Cat Warble** (Genus *Cuterebra*)
303. **Cattle Grub** (Genus *Hypoderma*)
304. **Coccidia** (Genus *Isospora* or *Eimeria*)
305. **Demodectic Mite** (Genus *Demodex*)
306. **Ear Mite** (Family Ascaridae; Genus *Otodectes*)
307. **Fleas*** (Genus *Ctenocephalides*)
308. **Flea Larva** (Genus *Ctenocephalides*)
309. **Flea Tapeworm*** (Genus *Dipylidium*)
310. **Flea Tapeworm Egg*** (Genus *Dipylidium*)
311. **Flea Tapeworm Segment*** (Genus *Dipylidium*)
312. **Giardia** (Genus *Giardia*)
313. **Hard Tick** (Family Ixodidae; Genus *Amblyomma* or *Dermacentor*)
315. **Heartworm Adult*** (Genus *Dirofilaria*)
316. **Heartworm Microfilaria*** (Genus *Dirofilaria*)
317. **Hookworm Adult*** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
318. **Hookworm Egg*** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
319. **Horse Bots*** (Genus *Gasterophilus*)
320. **Horse Strongyles*** (Family Strongylidae; Genus *Strongylus*)
321. **Lice - Biting** (Order Mallophaga; Genus *Bovicola* or *Trichodectes*)
322. **Lice - Sucking** (Order Anoplura; Genus *Linognathus* or *Hematopinus*)
323. **Liver Fluke** (Class Trematoda; Genus *Fasciola*, *Fascioloides* or *Dicrocoelium*)
324. **Lungworm** (Family Metastrongylidae; Genus *Metastrongylus*, *Dictyocaulus* or *Aelurostrongylus*)
325. **Mosquito Adult** (Family Culicidae; Genus *Anopheles*, *Culex* or *Aedes*)
326. **Mosquito Larva** (Family Culicidae; Genus *Anopheles*, *Culex* or *Aedes*)
327. **Pinworm** (Genus *Oxyuris*)
328. **Roundworm Adult*** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris* or *Neoascaris*)
329. **Roundworm Egg*** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris* or *Neoascaris*)
330. **Sarcoptic Mite** (Family Ascaridae; Genus *Sarcoptes* or *Notoedres*)
331. **Taenia Tapeworm*** (Family Taeniidae; Genus *Taenia*)
332. **Taenia Tapeworm Egg*** (Family Taeniidae; Genus *Taenia*)
333. **Taenia Tapeworm Segment*** (Family Taeniidae; Genus *Taenia*)
335. **Whipworm*** (Genus *Trichuris*)
336. **Whipworm Egg*** (Genus *Trichuris*)

*Asterisk indicates which parasite life cycles could have questions.

Cats

- 500. Abyssinian
- 501. American Shorthair
- 502. Burmese
- 503. Cornish Rex
- 504. Devon Rex
- 505. Exotic
- 506. Maine Coon
- 507. Manx
- 508. Persian
- 509. Ragdoll
- 510. Russian Blue
- 511. Siamese
- 512. Sphynx
- 513. Turkish Angora

Rabbits

- 514. American Fuzzy Lop
- 515. Angora
- 516. Californian
- 517. Dutch
- 518. Dwarf Hotot
- 519. English Spot
- 520. Flemish Giant
- 521. Jersey Wooly
- 522. Holland Lop
- 523. Netherland Dwarf
- 524. New Zealand
- 525. Polish
- 526. Mini-Rex
- 527. Satin

Dogs**SPORTING GROUP**

- 400. Brittany
- 401. Cocker Spaniel
- 402. English Setter
- 403. English Springer Spaniel
- 404. German Shorthaired Pointer
- 405. Golden Retriever
- 406. Irish Setter
- 407. Labrador Retriever
- 408. Weimaraner

NON-SPORTING GROUP

- 409. Bichon Frise
- 410. Boston Terrier
- 411. Bulldog
- 412. Chinese Shar-Pei
- 413. Chow Chow
- 414. Dalmatian
- 415. Lhasa Apso
- 416. Poodle

TERRIER GROUP

- 417. Bull Terrier
- 418. Cairn Terrier
- 419. Miniature Schnauzer
- 420. Parson Russell Terrier
- 421. Scottish Terrier
- 422. Smooth Fox Terrier
- 423. West Highland White Terrier
- 424. Wire Fox Terrier

Birds

- 528. Cockatiel
- 529. Cockatoos
- 530. Love Birds
- 531. Parakeet
- 532. African Gray Parrot
- 533. Canary
- 534. Macaw
- 535. Mynah
- 536. Rainbow Lorikeet
- 537. Society Finch
- 538. Sun Conure
- 539. Zebra Finch

Small Mammals

- 540. Chinchilla
- 541. Degus
- 542. Ferret
- 543. Gerbils
- 544. Guinea Pig
- 545. Hamster
- 546. Hedgehog
- 547. Sugar Glider

Reptiles

- 548. Chameleon
- 549. Gecko
- 550. Iguana
- 551. Lizard
- 552. Bearded Dragon
- 553. Snake
- 554. Turtle
- 556. Frog
- 557. Toad

Poultry

- 558. Chicken- Cornish
- 559. Chicken- Leghorns
- 560. Chicken- Rhode Island Red
- 561. Chicken- Plymouth Rock
- 562. Duck
- 563. Geese
- 564. Quail
- 565. Turkey

Other

- 566. Potbellied Pig

HERDING GROUP

- 425. Australian Cattle Dog
- 426. Australian Shepherd
- 427. Border Collie
- 428. Cardigan Welsh Corgi
- 429. Collie
- 430. German Shepherd Dog
- 431. Old English Sheepdog
- 432. Pembroke Welsh Corgi
- 433. Shetland Sheepdog

WORKING GROUP

- 434. Akita
- 435. Alaskan Malamute
- 436. Bernese Mountain Dog
- 437. Boxer
- 438. Bullmastiff
- 439. Doberman Pinscher
- 440. Giant Schnauzer
- 441. Great Dane
- 442. Great Pyrenees
- 443. Mastiff
- 444. Newfoundland
- 445. Portuguese Water Dog
- 446. Rottweiler
- 447. Saint Bernard
- 448. Samoyed
- 449. Siberian Husky
- 450. Standard Schnauzer

TOY GROUP

- 451. Cavalier King Charles Spaniel
- 452. Chihuahua
- 453. Italian Greyhound
- 454. Maltese
- 455. Miniature Pinscher
- 456. Papillon
- 457. Pekingese
- 458. Pomeranian
- 459. Poodle
- 460. Pug
- 461. Shih Tzu
- 462. Silky Terrier
- 463. Toy Fox Terrier
- 464. Yorkshire Terrier

HOUND GROUP

- 465. Afghan Hound
- 466. American Foxhound
- 467. Basenji
- 468. Basset Hound
- 469. Beagle
- 470. Black and Tan Coonhound
- 471. Bloodhound
- 472. Dachshund
- 473. English Foxhound
- 474. Greyhound
- 475. Whippet

Dairy Cattle

- 600. Ayrshire
- 601. Brown Swiss
- 602. Guernsey
- 603. Holstein
- 604. Jersey

Beef Cattle

- 605. Angus
- 606. Brahman
- 607. Charolais
- 608. Hereford
- 609. Simmental
- 610. Shorthorn

Swine

- 611. American Landrace
- 612. Berkshire
- 613. Chester White
- 614. Duroc
- 615. Hampshire
- 616. Yorkshire

Horse

- 617. Appaloosa
- 618. Arabian
- 619. Belgian
- 620. Clydesdale
- 621. Haflinger
- 622. Miniature
- 623. Morgan
- 624. Paint
- 625. Paso Fino
- 626. Percheron
- 627. Quarter Horse
- 628. Saddlebred
- 629. Standardbred (w/cart)
- 630. Tennessee Walking Horse
- 631. Thoroughbred
- 632. Donkey
- 633. Mule

Goat

- 635. Alpine
- 636. Nubian
- 637. Angora
- 638. Boer
- 639. LaMancha
- 640. Oberhasli
- 641. Pygmy
- 642. Saanen
- 643. Toggenburg

Sheep

- 645. Cheviot
- 646. Columbia
- 647. Dorset
- 648. Hampshire
- 649. Jacob
- 650. Merino
- 651. Montadale
- 652. Rambouillet
- 653. Southdown
- 654. Suffolk

National Vet Science Math Practicum
Units of Measurements

These are common formulas and conversions that students should be prepared to use as they may appear on the Math Practicum.

Units of Mass

1 kilogram (kg) = 2.2 pounds
1 pound = 0.45 kg
1 gram (g) = 1000 milligrams (mg)
1 pound = 453.59 g
60 grains (gr) = 1 dram (dr)
3 teaspoons (tsp) = 1 tablespoon (tbsp) = 1/2 oz = 14.3 g
2 tbsp = 1/8 cup = 1 oz = 28.3 g
4 tbsp = 1/4 cup = 2 oz = 56.7 g
5 1/3 tbsp = 1/3 cup = 2.6 oz = 75.6 g
8 tbsp = 1/2 cup = 4 oz = 113.4 g
12 tbsp = 3/4 cup = 6 oz = 0.375 pound
32 tbsp = 2 cups = 16 oz = 1 pound

Units of Volume

1 tsp = 5 milliliters (ml)
2 tbsp = 1 fluid ounce (fl oz) = 30 ml
1/4 cup = 2 fl oz = 60 ml
1/2 cup = 4 fl oz = 125 ml
1 cup = 8 fl oz = 250 ml
1 1/2 cups = 12 fl oz = 375 ml
2 cups or 1 pint = 16 fl oz = 500 ml
4 cups or 1 quart = 32 fl oz = 1000 ml = 1 liter (L)
1 gallon = 128 fl oz = 4 L
2 pints = 1 quart
4 quarts = 1 gallon

Units of Length

1 millimeter (mm) = 0.001 of a meter (m)
25 mm = 1 inch

Units of Temperature
Celcius (°C) and Fahrenheit (°F)

°C = 5/9 (°F-32) or (°F-32) x 5/9
°F = 9/5 (°C) + 32 or °C x 9/5 + 32

RESOURCES

This list of references is not intended to be all inclusive.

Other sources may be utilized, and teachers are encouraged to make use of the very best instructional materials available. Make sure to use discretion when selecting website references by only using reputable, proven sites. The following list contains references that may prove helpful during event preparation. The most current edition of resources will be used.

Past CDE materials and other resources are available by logging in to <https://www.ffa.org/participate/cdes/veterinary-science>

WRITTEN EXAM:

- Small Animal Care and Management. Warren. ISBN: 978-1-4180- 4105-2
- McCurnin's Clinical Textbook for Vet Technicians 8th edition- ISBN 978-1-4377-2690-0
- An Illustrated Guide to Veterinary Medical Terminology. Romich. ISBN:978-1-4354-2012-0
- Official Guide: Maintaining and Cleaning Surgical Instruments. Stow.: https://www.ffa.org/SiteCollectionDocuments/cde_vetsci_guide_maintaining_clearing_surgical_instruments.pdf
- Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online: https://agriflifebookstore.org/publications_browse2.cfm?keywordid=4
- Introduction to Veterinary Science. Lawhead, Baker. ISBN: 978-1- 4283-1225-8
- <http://todaysveterinarypractice.navc.com/>
- Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6
- Clinical Procedures & Handling/Restraining Practicums
- Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6
- McCurnin's Clinical Textbook for Vet Technicians 8th edition- ISBN 978-1-4377-2690-0
- Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents. Crow, Walshaw, Boyle. ISBN: 978-0813813042
- Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online: https://agriflifebookstore.org/publications_browse2.cfm?keywordid=4

IDENTIFICATION:

- Veterinary Instruments and Equipment: A Pocket Guide. Sonsthagen. ISBN: 978-0323032032 <http://loudoun.nvcc.edu/vetonline/vet121/instruments.htm>
- <https://www.spectrumsurgical.com/product/10-0227/Surgical-Instrument-Flash-Cards.php>
- 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/>

MATH PRACTICUM:

- Medical Mathematics and Dosage Calculations for Veterinary Professionals. Bill, Robert. ISBN: 978-08138263
- Essential Calculations for Veterinary Nurses and Technicians. Terry Lake and Nicola Green. ISBN 978-0-7020-2930-1
- <https://www.ffa.org/SiteCollectionDocuments/Math%20Resource.pdf>

CLINICAL PROCEDURES & HANDLING/RESTRAINING PRACTICUMS:

- Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6
- McCurnin's Clinical Textbook for Vet Technicians, 8th edition. ISBN 978-1-4377-2690-0
- Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents. Crow, Walshaw, Boyle. ISBN: 978-0813813042
- Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online, <https://www.agrilifebookstore.org/Veterinary-Science-Preparatory-Training-p/vm-001w.htm>

TEAM ACTIVITY PREPARATION RUBRIC (50 POINTS)

Indicator	Very Strong evidence of skill (10-8 pts)	Moderate Evidence of skill (7 – 5 pts)	Weak Evidence of skill (4 – 1 pts)	Points Available	Points Earned
Effective listening	Clearly evident that all team members are listening	Listening occurs but distraction is evident	Not listening to each other and/or talking over each other	10	
Oral communication	Clearly evident that all team members are discussing the topic.	Communication occurs but side conversations are occurring, or two to three members are dominating.	One member dominating conversation	10	
Demonstrated cooperation	All team members clearly completing tasks and sharing written and oral solutions.	Tasks primarily completed by two to three members; other members assist occasionally.	Tasks primarily completed by one member; other members contributing only slightly.	10	
Participated in the team preparation	All team members clearly demonstrate efficient use of their time in comprising the plan.	Most team members demonstrate efficient use of their time in comprising the plan.	One to two team members demonstrate efficient use of their time in comprising the plan.	10	
Respect	All team members clearly respected the input of other team members.	Most team members respected the input of other team members.	The team members did not respect the input of other team members.	10	
Total Points					

TEAM ACTIVITY PRESENTATION RUBRIC (50 POINTS)

Indicator	Very Strong evidence of skill (10-8 pts)	Moderate Evidence of skill (7 – 5 pts)	Weak Evidence of skill (4 – 1 pts)	Points Available	Points Earned
Non Verbal	Gestures are purposeful and effective. Hand motions are expressive, and used to emphasize talking points. Confident with positive body language.	Usually uses purposeful gestures; Hands are sometimes used to express or emphasize; Occasionally slumps; sometimes 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; slumps.	10	
Verbal	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 when speaking.	Speaks articulately, but frequently hesitates. Frequently hesitates or has long, awkward pauses while speaking	10	
Content	Full understanding of treatment protocols and/or recommendation for the topic	Some understanding of treatment protocols and/or recommendation for the topic	Does not understand the treatment protocols and/or recommendation for the topic	10	
Demonstration of knowledge	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.	10	
Q & A	Speaks unrehearsed with comfort and ease; Speaks quickly with organized thoughts and concise answers	Speaks unrehearsed mostly with comfort and ease, but sometimes seems nervous or unsure; Speaks effectively but has to stop and think sometimes and gets off focus	Shows nervousness or seems unprepared when speaking unrehearsed; Seems to ramble or speaks before thinking.	10	
Total Points					

Clinical Procedures Practicum rubrics can be found at National FFA.org

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