### Revised 6/2018

#### **Purpose and Standards**

The Veterinary Science event seeks to effectively prepare the students for the expectations of the animal health care and services (Veterinary Hospitals/Clinics, Grooming Facilities, Pet Stores, Kennels/Boarding Facilities, and Feed Stores) workplace. Workers seeking careers in the animal health care field must develop a high degree of knowledge, skill and ability to solve difficult problems. This event blends the testing of skills and knowledge required for careers in the animal science career pathway. California Career Technical Education Model Curriculum Standards addressed by this event include:

Foundation Standards: Listening and Speaking 1.1, 2.2c, 2.2f, 1.8, Technology 4.2, 4.6, Health and Safety 6.2, 6.5, Ethics and Legal Responsibilities 8.3, Leadership and Teamwork 9.1, 9.2, 9.3.

Animal Science Pathways: D1.3, D1.4, D3.1, D3.2, D4.1, D5.1, D6.1-D6.5, D9.1, D9.4, D10.1, D10.2, D11.1-D11.3.

### **Contestants**

The contest team will be made up of four members. Each member will compete in all events individually. All four scores will make up the team score.

To be eligible to compete at the state finals contest, a team must compete in a minimum of three of the following field days: CSU Chico, Arbuckle, UC Davis, Modesto JC, Reedley CC, CSU Fresno, Lassen CC, Hemet Field Day, San Diego Section Field Day, Dinuba, Clovis, Norte Vista FFA, Arroyo Grande, Gridley, or Animal Care Clinic/SLO HS Contest. Only the top 24 teams, determined mathematically by a tabulations coordinator, will be eligible to compete at the state finals contest. The formula to calculate the 24 qualifying teams will be:

Weighted Score = (51 - Ranking) + (# of teams - Rank)/2

Weighted score will be based on number of teams that complete in any portion of a contest.

#### Classes

The contest will include:

	Class	Individual Points	Team Points
A.	Identification Tests		
	Equipment and Materials	150	600
	2. Parasites	50	200
	3. Breed identification	100	400
В.	Practicum #1	50	200
	Practicum #2	50	200
	Practicum #3	50	200
C.	General Knowledge Test (50 questions)	100	400
	TOTAL POINTS	550	2,200

#### Tie Breaker

- 1. Individual or team ties will be broken with highest General Knowledge test score.
- 2. If there still is a tie, it will be broken with highest Breed I.D. test score.
- 3. If there still is a tie, Individual or team ties will be broken with highest practicum score.

# **Sub-contest Awards**

Sub-contest awards will be given for high teams and individuals in the following areas: Identification, Practicums, and Medical Math / Knowledge Test.

#### Rules

- I. Contestants in this contest will be divided into groups. Only one group will be allowed at one site at one time. Only one member of a team shall be allowed in a group.
- II. All participants must wear either official FFA dress or team scrubs (solid color tops and bottoms) to compete at all qualifying contests. All members must wear official FFA dress at the state finals registration and awards ceremonies (changing into scrubs can happen after uniform check and before the regular start time of the contest).
- III. All equipment and practicum materials needed by the contestants will be available at the judging sites.
- IIII. All contestants must fill out the official score sheets and will be graded according to the points shown on the score card.
- V. The contestants will be allowed 45 minutes at each test site to complete that section.

Equipment/Materials, Parasites/Breed Identification, General Knowledge Test – three rotations.

- VI. Three Practicums will be allowed 90 minutes for completion.
- VII. Identification Test (Time: Equipment/Materials = 45 minutes, Breed/Parasites = 45 minutes)

  PowerPoint slides will be set at 15 seconds per picture, the PowerPoint will be ran through twice and the slides will be numbered.
  - A. Equipment and Materials can be picked at random from the approved National Curricular Code list. Seventy-five items will be chosen for this contest. Two points for each correct answer
  - B. Parasites are to be picked from the National Curricular Code list provided. The specie and location on the animal will be given. Twenty-five items will be used in the contest. Two points for each correct answer.
  - C. Students will identify 50 animals from the approved National Curricular Code list. Each correct answer will be worth two points.

#### VIII. Practicums (Time: 90 minutes)

Practicums will consist of three from the list of current year practicums: Students will go in order from one practicum to the other until all contestants are finished in each group. The list of practicums will come from the list provided by the California FFA contest for Veterinary Science. There will be a three minute maximum time limit for each of the individual practicums.

### 2018-2019 Practicum

Administering Ophthalmic Medication- Clinical
Applying a Gauze Dog Muzzle-Handling
Prescription Filling- Clinical
Fecal Flotation with Fecalyzers- Clinical
Haltering a Horse- Handling
Removing a cat from a cage and placing it in a cat bag- Handling
Restraint of the cat for Jugular Venipuncture- Handling

#### 2019-2020 Practicum

Administering an Intramuscular Injection- Clinical
Administration Oral Tablet/Capsule- Clinical
Applying a Cat Muzzle- Handling
Opening a Surgery Pack- Clinical
Applying Elizabethan Collar- Handling
Removing a Dog from a Floor Level Cage to Restrain for Lateral Saphenous VenipunctureHandling
Snare Restraint of the Pig- Handling

# 2020-2021 Practicum

Administering a Subcutaneous Injection- Clinical
Applying a Nylon Dog Muzzle- Handling
Placing a Tail Tie- Handling
Preparing a Surgical Pack for Sterilization-Clinical
Removal of Sutures- Clinical
Restraint of a Dog for Jugular Venipuncture- Handling
Restraint of the Cat for Cephalic IV Catheter Placement- Handling

# 2021-2022 Practicum

Administering Aural Medication- Clinical

Bandage Removal- *Clinical*Filling a Syringe for Injection- *Clinical*Haltering Ruminants- *Handling*Restraint of a Rabbit- *Handling* 

Restraint of a Dog for Cephalic Venipuncture- Handling

Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture- *Handling* Surgical Site Preparation- Clinical

# IX. General Knowledge and Medical Math Test (Time: 45 minutes)

- A. The written exam will consist of 50 multiple choice questions. Ten of the 50 questions will be medical math questions. Questions will come from a set of approved texts, of no more than five, that will be selected by a committee made up of the top five coaches at State Finals of the revision year to be decided by the end of CATA Summer Conference.
  Veterinary Assisting: Fundamental and Applications. Vanhorn, Clark. ISBN:978-1-4354-5387-6
- B. National FFA Medical Math Resource Sheet will be provided on exam (Source National FFA) FFA.org/SiteCollectionDocuments/Math%20Resource.pdf
- C. Contest sites will use provided medical math question bank to create representative, but not identical, problems for each approved contest.

\*Note: Bank of questions will be provided by September 1, 2018. Last year's top 5 coaches will make the math test bank. This will give contest host sites ample time to create the 10 questions.

- D. Test will be generated in scantron form including multiple choice, true/false and/or matching.
- E. The test will be 50 questions in length with each question being worth 2 points each.
- F. Students are allowed to have basic (non-programming) calculators for the test to the General Knowledge Test section.

# **Equipment and Materials Identification List**

Equipment and Materials Identification List					
100. Ambubag					
101. Anesthetic machines	144. Hoof knife				
102. Autoclave	145. Hoof rasp				
103. Autoclave tape indicator	146. IV administration set				
104. Backhaus towel clamps	147. Laparoscope				
105. Balling gun	148. Laryngoscopes				
106. Bandaging material- Elasticon	149. Muzzle - basket				
107. Bandaging material-roll gauze	150. Muzzle - nylon				
108. Bandaging material- vet wrap	151. Needle holder – Mayo-Hegar				
109. Bands (castration or docking)	152. Needle holder – Olsen-Hegar				
110. Cat bag	153. Obstetrical chain and handle				
111. Catch pole (dog snare)	154. Ophthalmoscope				
112. Catheter - butterfly	155. Otoscope				
113. Catheter - IV	156. Pig tooth nippers				
114. Catheter – Tomcat urinary	157. Radiology personal protective				
115. Centrifuge	equipment				

115. Centrifugeequipment116. Chemical indicator strips158. Rectal prolapse ring -swine117. Cold sterile tray159. Rumen magnet118. Dehorner - Barnes160. Scalpel blade119. Dehorner - electric161. Scalpel handle120. Dental floats162. Scissors - Suture wire cutting121. Dental scaler163. Scissors - Bandage122. Drench gun - small ruminant164. Scissors - Lister bandage

123. Ear notcher 165. Scissors – Littauer suture removal

124. Elastrator
 166. Scissors – Mayo dissecting
 125. Elizabethan collar
 167. Scissors - Metzenbaum dissecting

126. Emasculators168. Silver nitrate sticks127. Endoscope169. Small animal oxygen cage128. Endotracheal tubes170. Snook ovariohysterectomy hook129. Fecal loop171. Speculum – large animal oral130. Fecalyzers172. Speculum – small animal oral

131. Feeding tube for small animals173. Speculum – vaginal132. Fetal extractor - calf174. Squeeze chute133. Forceps - Alligator175. Staple remover134. Forceps – Allis tissue176. Stethoscope135. Forceps – Babcock tissue177. Surgical drapes136. Forceps – Brown-Adson thumb178. Suture needle – cutting

137. Forceps - Crile
 179. Suture needle - taper
 138. Forceps - Kelly
 180. Syringe - automatic, multidose

139. Forceps – Halstead mosquito hemostatic 181. Tattooing instruments – small and large

182. Tonometer
140. Forceps – Rat tooth thumb
183. Tourniquet
141. Gravity feeder/J tube
184. Trocar and cannula
142. Head gate
185. Twitch chain
143. Hog snare
186. Twitch handle

### Parasite / Microscopic Identification List

- 187. Blowfly (Family Calliphoridae)
- 188. Calcium oxalate crystals
- 189. Cat Warble (Genus Cuterebra)
- 190. Cocci (bacteria)
- 191. Coccidia (Genus Isospora or Eimeria)
- 192. Demodectic Mite (Genus Demodex)
- 193. Ear Mite (Family Psoroptidae; Genus Otodectes)
- 194. Eosinophils
- 195. Epithelial cells (urine)
- 196. Flea Larva (Genus Ctenocephalides)
- 197. Flea Tapeworm Egg\* (Genus Dipylidium)
- 198. Flea Tapeworm Segment\* (Genus Dipylidium)
- 199. Flea Tapeworm\* (Genus Dipylidium)
- 200. Fleas\* (Genus Ctenocephalides)
- 201. Giardia\* (Genus Giardia)
- 202. Heartworm Adult\* (Genus Dirofilaria)
- 203. Heartworm Microfilaria\* (Genus Dirofilaria)
- 204. Hookworm Adult\* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus)
- 205. Hookworm Egg\* (Family Ancylostomatidae; Genus Ancylostoma, Uncinaria, Bunostomum or Globocephalus)
- 206. Horse Bots\* (Genus Gasterophilus)
- 207. Horse Strongyles\* (Family Strongylidae; Genus Strongylus)
- 208. Lice Biting (Order Mallophaga; Genus Bovicola or Trichodectes)
- 209. Lice Sucking (Order Anoplura; Genus Linognathus or Hematopinus)
- 210. Liver Fluke (Class Trematoda; Genus Fasciola, Fascioloides or Dicrocoelium)
- 211. Mosquito Adult (Family Culicidae; Genus Anopheles, Culex or Aedes)
- 212. Mosquito Larva (Family Culicidae; Genus Anopheles, Culex or Aedes)
- 213. Neutrophils
- 214. Platelets
- 215. Red Blood cell (erythrocyte)
- 216. Rod (bacteria)
- 217. Roundworm Adult\* (Family Ascarididae or Toxocaridae; Genus Toxocara, Toxascaris, Ascaris, Parascaris or Neoascaris)
- 218. Roundworm Egg\* (Family Ascarididae or Toxocaridae; Genus Toxocara, Toxascaris, Ascaris, Parascaris or Neoascaris)
- 219. Sarcoptic Mite (Family Sarcoptidae; Genus Sarcoptes or Notoedres)

- 220. Struvite crystals (triple magnesium phosphate)
- 221. Taenia Tapeworm Egg\* (Family Taeniidae; Genus Taenia)
- 222. Taenia Tapeworm Segment\* (Family Taeniidae; Genus Taenia)
- 223. Taenia Tapeworm\* (Family Taeniidae; Genus Taenia)
- 224. Tick American Dog (Family Dermacentor; Genus variabilis)
- 225. Tick Black Legged Deer (Family ixodes; Genus scapularis)
- 226. Tick Brown Dog (Family Rhipicephalus; Genus Sanguineus)
- 227. Tick Lonestar (Family Amblyomma; Genus americanum)
- 228. Whipworm Egg\* (Genus Trichuris)
- 229. Whipworm\* (Genus Trichuris)
- 230. Yeast (cytology)
- \*Asterisk indicates which parasite life cycles could have questions.

# **Breed/Species Identification List**

DOGS		CATS
Herding Group	Terrier Group	290. Abyssinian
231. Australian Cattle Dog	263. Bull Terrier	291. American Shorthair
232. Australian Shepherd	264. Cairn Terrier	292. Burmese
233. Border Collie	265. Parson Russell Terrier	293. Maine Coon
234. Collie	266. Scottish Terrier	294. Manx
235. German Shepherd Dog	267. West Highland White	295. Persian
236. Old English Sheepdog	Terrier	296. Ragdoll
237. Pembroke Welsh Corgi		297. Russian Blue
238. Shetland Sheepdog	Toy Group	298. Siamese
	268. Cavalier King Charles Spaniel	299. Sphynx
Hound Group	269. Chihuahua	BIRDS
239. Afghan Hound	270. Miniature Pinscher	300. African Gray Parrot
240. Basenji	271. Papillon	301. Canary
241. Basset Hound	272. Pekingese	302. Cockatiel
242. Beagle	273. Pomeranian	303. Cockatoos
243. Black and Tan Coonhound	274. Poodle	304. Love Birds
244. Bloodhound	275. Pug	305. Macaw
245. Dachshund	276. Shih Tzu	306. Parakeet
246. Greyhound	277. Yorkshire Terrier	307. Sun Conure
247. Rhodesian Ridgeback		308. Zebra Finch
	Working Group	
Non-Sporting Group	278. Bernese Mountain Dog	REPTILES
248. Bichon Frise	279. Boxer	309. Bearded Dragon
249. Boston Terrier	280. Doberman Pinscher	310. Chameleon
250. Bulldog	281. Great Dane	311. Gecko
251. Chinese Shar-Pei	282. Great Pyrenees	312. Iguana
252. Chow Chow	283. Mastiff	
253. Dalmatian	284. Newfoundland	POULTRY
254. Poodle	285. Portuguese Water Dog	313. Chicken – Cornish
		314. Chicken – Leghorns
Sporting Group	286. Rottweiler	315. Chicken – Plymouth
255. Brittany Spaniel	287. Saint Bernard	Rock
256. Cocker Spaniel	288. Siberian Husky	316. Chicken – Rhode Island
	289. Standard Schnauzer	Red 317. Duck
257 E1:-1- C-44		318. Geese
<ul><li>257. English Setter</li><li>258. German Shorthaired</li></ul>		319. Quail
Pointer		320. Turkey
259. Golden Retriever		- ·· <del></del> j
23). Guiden Kennever		

# Breed/Species Identification List - continued

Chameleon

SMALL MAMMALS	GOAT
321. Chinchilla	358. Alpine
322. Ferret	359. Nubian
323. Gerbils	360. Angora
324. Guinea Pig	361. Boer
325. Hamster	362. LaMancha
326. Hedgehog	363. Saanen
327. Sugar Glider	364. Toggenburg

# **RABBITS**

# **SHEEP**

328 Angora 365. Columbia 329. Californian 366. Dorper 367. Dorset 330. Dutch 331. English Spot 368. Hampshire 332. Holland Lop 369. Merino 333. Mini-Rex 370. Rambouillet 334. Netherland Dwarf 371. Southdown 335. New Zealand 372. Suffolk

#### DAIRY CATTLE

# **SWINE**

336. Ayrshire 373. American Landrace 337. Brown Swiss 374. Berkshire 338. Guernsey 375. Chester White 339. Holstein 376. Duroc 340. Jersey 377. Hampshire 378. Yorkshire

### **BEEF CATTLE**

341. Angus

342. Brahman

343. Charolais

344. Hereford

345. Shorthorn

346. Simmental

# **HORSE**

347. Appaloosa

348. Arabian

349. Belgian

350. Clydesdale

351. Morgan

352. Paint

353. Percheron

354. Quarter Horse

- 355. Saddlebred
- 356. Tennessee Walking Horse
- 357. Thoroughbred
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