



Islands FFA Senior Veterinary Science Career Development Event

An Invitational CDE hosted by the Islands FFA Chapter in cooperation with Oatland Island Wildlife Center.

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I. OVERVIEW

The Veterinary Science CDE will test students' knowledge and skill in various aspects of the Veterinary Science industry. The team event includes identification of equipment, parasites and animal breeds, as well as a handling and restraining practicum, a clinical procedure practicum, and a written exam involving knowledge of the veterinary science field.

**This CDE has been adapted from the National FFA Veterinary Science Career Development Event, which can be found at www.ffa.org.*

II. 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.

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

III. ELIGIBILITY

This event is open to students in grades 9-12 who are agricultural education students, and are paid members of a chartered FFA chapter. Each member of the team must be a member of the chapter registering them, and each student's name must appear on the chapter's FFA roster at least 10 days prior to competition above the chapter level.

IV. SPECIAL NEEDS REQUEST

To report any special needs or request special services for a student, it is the responsibility of the FFA Advisor to provide a detailed and specific request and explanation in writing. Requests should include written documentation from the school system verifying the IEP and need being requested. Written requests must be submitted to Myria Shipman upon registering for the CDE/event (minimum 2 weeks prior to the date of competition).

V. RULES

- 1) All general FFA CDE rules apply to this contest event.
- 2) The activity is limited to one team per chapter. Each team will consist of four members with all four members' scores counting toward total team score. If there is space available, schools may bring an additional team. Advisors will be notified via email after the initial registration deadline if space is available.
- 3) Dress Code: It is suggested, but not required, that participants wear scrubs. All participants must wear long pants and closed toe, closed heel and flat shoes (no clogs, sandals or flip-flops). No jewelry, with the exception of stud earrings, may be worn during the practicum section of the event. This includes rings, bracelets, hoop or dangling earrings, and exposed body piercing.
- 4) Under no circumstances will any participant be allowed to touch or handle equipment or other specimens during the identification portion of the event.
- 5) Neither coaches nor teachers may enter the competition area until the event superintendent announces the end of the event and areas are open to be reviewed.
- 6) Any participant in possession of an electronic device in the event area is subject to disqualification.
- 7) Tools and Equipment:
 - a. Each participant will need to bring a clipboard and two pencils.
 - b. Participants will be allowed to have scratch paper and a non-programmable calculator.
 - c. All other tools and equipment needed to complete practicums will be provided.
- 8) The Islands FFA Advisors and their appointees will be in charge of this event.
- 9) Score sheets will not be given out by judges prior to announcement of the winners. The decisions of the judges are final.

VI. EVENT FORMAT

1. Written Exam: 50 points

The written exam is designed to determine team members' broad understanding of the veterinary science field. The written exam will consist of 25 multiple-choice questions. Thirty minutes will be given for the exam. Topics for the exam may include:

- Behavior
- Disease (causes and sources, signs and symptoms)
- Medical terminology
- Medical records
- Anatomy/physiology
- Regulations (OSHA, MSDS)
- Patient management
- Facility management
- Genetics
- Nutrition
- Husbandry

2. Identification: 50 points

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

3. Practicum: 100 points total

a. Handling and Restraining Practicum and Clinical Procedure Practicum

Participants will be given 4 activities to complete (25 points each). 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 each activity, if time allows. All handling/restraining scorecards and clinical procedure scorecards can be found at the end of this handbook.

VII. Event Scoring

Event	Individual Points	Team Points
Written Exam (25 questions, 2 points per question)	50	200
Identification (25 items, 2 points per item)	50	200
Handling/Restraining Practicum (2 practicum activities, 25 points per activity)	50	200
Clinical Procedures Practicum (2 practicum activities, 25 points per activity)	50	200
Total Possible Points:	150	600

VIII. TIE BREAKER

- A. Team tiebreakers will be settled in the following order:
1. Combined individual practicum total score
 2. Combined individual written exam total score
- B. Individual tiebreakers will be settled in the following order:
1. Combined practicum score
 2. Written exam score

IX. AWARDS

Awards will be presented to the following:

1. The top two individuals for each event activity (Written Exam, Identification, Practicums).
2. The top two individuals overall
3. The top two teams overall

X. REFERENCES

Written Exam:

Small Animal Care and Management. Warren. ISBN: 978-1-4180-4105-2

An Illustrated Guide to Veterinary Medical Terminology. Romich. ISBN: 978-1-4354-2012-0

Official Guide: Maintaining and Cleaning Surgical Instruments. Stow. Provided free of charge by the program or available online at <http://www.spectrumsurgical.com>

Veterinary Science: Preparatory Training for the Veterinary Assistant. Faries. ISBN: 978-0-9849115-0-9. Order online: <https://agriflifebookstore.org/publications>

Introduction to Veterinary Science. Lawhead, Baker. ISBN: 978-1-4283-1225-8

Clinical Procedures & Handling/Restraining Practicums:

Veterinary Assisting: Fundamentals and Applications. Vanhorn, Clark. ISBN: 978-1-4354-5387-6

Small Animal Surgical Nursing: Skills and Concepts. Busch. ISBN: 978-0323030632

Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents. Crow, Walshaw, Boyle. ISBN: 978-0813813042.

Restraint and Handling for Veterinary Technicians and Assistants. Ballard, Rockett. ISBN: 978-1-4354-4358-6

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 Fancier's Association – <http://www.cfa.org/client/breeds.aspx>

American Rabbit Breeder's Association: <http://www.arba.net/>

Practicums:

Participants will be given two handling/restraint activities and two clinical procedure activities to complete. Activities will be chosen from the lists below. Following the lists are example student directions. Scorecards for each practicum are found following student directions.

Handling and Restraining Practicums:

1. Removing a Cat from a Cage
2. “Cat Stretch” (Restraint of the Cat in Lateral Recumbency)
3. Using a Cat Bag
4. Applying a Commercial Dog Muzzle
5. Applying a Gauze Dog Muzzle
6. Removing a Dog from a Floor Level Cage or Kennel
7. Restraint of the Dog in Sternal Recumbency
8. Restraint of a Small Dog in Lateral Recumbency
9. Tying a Reefer’s Knot
10. Tying a Square Knot

Clinical Procedures Practicums:

1. Administering an Intramuscular Injection
2. Administering a Subcutaneous Injection
3. Filling a Syringe
4. Administering Topical Wound Treatment
5. Open a Gown and Gloves
6. Opening a Surgery Pack
7. Surgical Preparation
8. Prescription Filling
9. Administering Aural Medication
10. Administering Ophthalmic Medication

Sample Student Directions:

Practicum #1: Cat “stretch”

Mrs. Purrdy has brought in her cat “Tiger” for his annual vaccinations. “Tiger” lives up to his name and is very difficult to handle and must be restrained in a cat “stretch” in order for the vaccinations to be administered. Please demonstrate how you would restrain “Tiger” in a “stretch” and explain each step as it is demonstrated.

Practicum #2: Subcutaneous Injection

You are assisting the veterinarian with the day’s evening treatments. He instructs you to give 0.5 ml of penicillin SQ to a cat named Sunny Day. Please demonstrate the proper procedure for a subcutaneous injection.

Veterinary Science
Handling and Restraining Practicum

Removing a Cat from a Cage

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student opens the cage door and calls the cat by name.	5	
2. The student scruffs the cat with one hand and lifts it up.	5	
3. The student cradles the cat's abdomen with their other hand and removes the cat from the cage.	5	
4. With the cat still scruffed, the student places the cat under one arm close to his/her body and closes the cage door with free hand.	5	
5. The student carries the cat close to his/her body to its destination.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

**“Cat Stretch”
(Restraint of the Cat in Lateral Recumbency)**

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the cat on an examination table.	6	
2. 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.	7	
3. The student lays the cat on its side with the hind legs stretched rearward.	6	
4. The student spoke to the patient in a calm and affectionate manner during the procedure.	6	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Using a Cat Bag

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student obtains the cat bag and unzips the top all the way open.	4	
2. The student scruffs the cat and lifts it into the bag in one swift motion while supporting the hind end.	5	
3. The student wraps the Velcro strap around the cat's neck and immediately zips up the bag.	5	
4. The student uses the proper zippered opening to expose the front limb.	5	
5. To remove the cat, the student removes the Velcro strap first, then unzips the bag and removes the cat by scruffing and supports hind end.	6	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Applying a Commercial Dog Muzzle

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects appropriate muzzle.	3	
2. The student places the dog in sitting or sternal position on exam table or floor.	4	
3. The student comes from behind the dog's head with the muzzle in hand.	4	
4. The student brings the muzzle up to the dog's face and slips it on while grasping the strap with the other hand.	5	
5. The student secures the muzzle	4	
6. The student checks for proper fit (one finger inserted under the strap).	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Applying a Gauze Dog Muzzle

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects proper type of material and length.	2	
2. The student places the dog in sitting or sternal position on exam table or floor.	4	
3. The student makes a loop in the gauze and approaches the dog from behind.	4	
4. The student places the loop on the dog's face with the tie on top.	5	
5. The student quickly tightens the loop, and then crosses the ends under the dog's face.	5	
6. The student brings the ends back behind the dog's head under the ears and ties in a quick-release bow.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Removing a Dog from a Floor Level Cage or Kennel

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places a leash in one hand with a large loop open and ready to place over the dog's head.	5	
2. While blocking the opening, the student opens the cage door enough to slip the hand holding the leash into cage.	5	
3. The student slips the leash over the neck of the dog and gently tightens the leash around the neck.	5	
4. The student opens the door and allows the dog to exit the cage.	5	
5. The student keeps the dog to their side while maintaining a slight tension on the leash.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Restraint of the Dog in Sternal Recumbency

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student puts a noose leash on the dog.	5	
2. The student begins with the dog sitting.	5	
3. The student places one arm around the dog's neck and places the other arm around the dog's back to grasp the forelimbs.	5	
4. The student pushes the dog's back with his/her body to encourage the dog to lie down.	5	
5. The student positions the dog so that head can be examined.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Restraint of a Small Dog in Lateral Recumbency

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student puts a noose leash on the dog.	4	
2. The student places the dog in the standing position.	4	
3. 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 right hand.	4	
4. The student places left arm over the dog's back and reaches for the dog's right rear limb; just proximal to the hock.	4	
5. With the dog's body close, the student gently lifts the limbs while allowing the dog's body to move to the table; the dog should be on its right side.	5	
6. The student allows the dog to relax for a couple seconds, not releasing the grasp on the limbs.	4	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Tying a Reefer's Knot

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the rope over a pole or tie area.	6	
2. The student passes the short end over and under the long end.	7	
3. The student makes a fold or bight in the short end and passes it over and under the long end.	6	
4. The student pulls securely on the long end and loop of the short end.	6	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Tying a Square Knot

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student takes one piece of rope and passes the right end over and under the left end.	6	
2. The student passes the “new” right end under and over the “new” left end; or the student passes the “new” left end over and under the “new” right end.	7	
3. The student pulls securely on both ends.	6	
4. The student unties the knot by pushing the opposite ends together.	6	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering an Intramuscular Injection

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects the proper site for administration	5	
2. The student rubs an alcohol saturated cotton ball over the injection site.	4	
3. The student directs the needle through the skin and in to muscle mass.	4	
4. The student aspirates the plunger on the syringe; if no blood is noted, inject the substance slowly.	4	
5. The student withdraws the needle and places in the sharps container.	4	
6. The student massages the area where the injection was given and praises the patient.	4	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering a Subcutaneous Injection

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student lifts the skin using the thumb and forefinger of one hand. Form a triangle or tent with the skin.	4	
2. The student wipes the area with an alcohol-soaked cotton ball.	3	
3. The student uses the other hand to insert the needle into the skin at the base of the tent or triangle parallel to the body.	3	
4. The student releases the skin once the needle is placed.	3	
5. The student aspirates the end of the plunger, looking for any signs of blood entering the syringe; if no blood enters the syringe, administer the injection.	5	
6. The student withdraws the needle and places in the sharps container.	4	
7. The student rubs the injection site with one hand and praises the patient.	3	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Filling a Syringe

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student determines the drug or vaccine and amount to be placed in the syringe.	2	
2. The student selects the proper-sized syringe, needle length and gauge.	4	
3. The student prepares a cotton ball saturated with alcohol.	2	
4. The student places the cotton ball on the top of the vial and wipes the rubber stopper area.	2	
5. The student places the vial upside down in one hand with the fingers curling around the vial securely.	2	
6. The student uncaps the needle and inserts the needle into the rubber top of the vial.	2	
7. The student withdraws the proper volume.	4	
8. The student removes the needle from the vial.	2	
9. 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.	2	
10. The student places needle and syringe in the sharps container.	3	
TOTAL POINTS	25	

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering Topical Wound Treatment

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student cleans area as necessary	5	
2. The student uses a tongue depressor to transfer an amount of topical medication if the container is for multiple doses.	5	
3. The student applies the ointment onto the area in a circular motion, starting at the center of the wound and gently working outward.	5	
4. The student does not contaminate the medication by touching items that touched the animal.	5	
5. The student cleans the area and puts items away.	5	
TOTAL POINTS	25	

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Open a Gown and Gloves

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects the appropriate gown size.	3	
2. The student selects the appropriate glove size.	3	
3. The area where the gown and gloves are placed is dry and level.	3	
4. The gown is opened without contamination and the flaps are opened in the correct order.	4	
5. The student checks the chemical indicator to ensure sterility.	4	
6. The gloves are opened without contamination.	4	
7. The student ties or assists with tying the surgery gown aseptically.	4	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Opening a Surgery Pack

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the surgery pack on a clean, dry surface.	2	
2. The student removes or tears the tape securing the package.	2	
3. The student opens the first flap away from them.	4	
4. The student opens the side flaps without reaching across open pack.	4	
5. The student opens the flap towards him/her	4	
6. The student opens the pack without contamination.	5	
7. If internal wrap is present, student does not contaminate.	2	
8. The student steps away so the surgeon or scrub nurse can complete the opening of the pack.	2	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Surgical Preparation

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student applied antiseptic scrub to the site.	4	
2. The student prepped the site with a clean surgical sponge beginning at the incision site and worked toward the edges.	4	
3. The student discarded the sponge once it reached the edge of the clipped area.	4	
4. The student did not bring the sponge back to the incision site once it was moved away from the incision site.	4	
5. The student wiped the site with a rinse solution using a clean surgical sponge following the same pattern as when scrubbing with the antiseptic.	4	
6. The student repeated the scrub and rinse a minimum of 3 times or until the final rinse sponge was clean.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Prescription Filling

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student reads and interprets prescription.	5	
2. The student selects the correct drug and concentration.	4	
3. 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	
4. The student pours the medication tablets or capsules onto the tray plate.	1	
5. The student opens the channel cover.	1	
6. The student uses a spatula or tongue depressor to push groups of tablets or capsules into the channel.	1	
7. The student tilts the tray to return the unused medicine into the stock bottle.	1	
8. When the student has counted the desired amount of medication, he/she closes the channel cover and lift tray to place the channel spout into the medicine vial or container.	5	
9. The student places the closed vial on the counter.	1	
10. The student appropriately fills out label with prescription information.	5	
TOTAL POINTS	25	

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering Aural Medication

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student applies gloves.	3	
2. The student cleans ears.	3	
3. The student successfully administered the medication into the ear canal without contamination of the applicator tip.	5	
4. The student applies proper amount of medication into the ear as noted by the veterinarian.	4	
5. 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.	4	
6. The student wipes any solution that may have leaked onto the outside of the ear flap or hair.	3	
7. The student disinfects the medication dispenser with alcohol and places in appropriate area.	3	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering Ophthalmic Medication

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student wipes any discharges from the patient's eye using a gauze sponge or cotton ball.	4	
2. The student opens the end of the ophthalmic medicine and holds in one hand.	3	
3. The student, using the free hand, uses the index finger and thumb to pull the upper and lower lids apart to open the eye. a. The student's thumb pulls the lower lid down and the index finger pulls the upper lid upward. b. The student's other finger may rest on the head of the animal.	5	
4. The student gently tilts the head upward.	3	
5. The student applies the drops or ointment gently into the eye, counting each drop or applying the proper amount of ointment.	4	
6. The student releases the eyelids.	3	
7. The student allows the animal to blink to move the medication throughout the eye.	3	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Identification Lists

EQUIPMENT AND MATERIALS

- | | |
|-----------------------------------|---|
| 1. Ambubag | 47. Fecal loop |
| 2. Anesthetic machines | 48. Fecalizers |
| 3. Animal clippers | 49. Feeding tube for small animals |
| 4. Autoclave | 50. Fetal extractor |
| 5. Autoclave tape indicator | 51. Fingertip toothbrush |
| 6. Backhaus towel clamps | 52. Forceps – Alligator |
| 7. Balling gun | 53. Forceps – Allis tissue |
| 8. Bands (castration or docking) | 54. Forceps – Babcock tissue |
| 9. Bandaging material-roll gauze | 55. Forceps – Brown-Adson thumb |
| 10. Bandaging material- vet wrap | 56. Forceps – Crile |
| 11. Basket muzzle | 57. Forceps – Halstead mosquito hemostatic |
| 12. Betadine | 58. Forceps – Kelly |
| 13. Brush- Body (soft bristle) | 59. Forceps – Rat tooth thumb |
| 14. Brush- Dandy (stiff bristle) | 60. Mouth gag speculum |
| 15. Brush- Slicker | 61. Halter |
| 16. Brush- Pin | 62. Head chute |
| 17. Bulb syringe | 63. Hog snare |
| 18. Cat bag | 64. Hoof knife |
| 19. Carmalt | 65. Hoof nippers |
| 20. Catch pole (dog snare) | 66. Hoof pick |
| 21. Catheter – IV | 67. Hoof rasp |
| 22. Catheter- butterfly | 68. Hoof trimmers |
| 23. Centrifuge | 69. Humane twitch |
| 24. Chain twitch | 70. IV fluids |
| 25. Chemical indicator strips | 71. IV administration |
| 26. Clipper blades | 72. Laryngoscopes |
| 27. Surgical drapes | 73. Lead rope |
| 28. Cold sterile tray | 74. Needle holder – Mayo-Hegar |
| 29. Comb – curry | 75. Needle holder – Olsen-Hegar |
| 30. Comb – flea | 76. Microscope slides |
| 31. Comb – scotch | 77. Muzzle-commercial |
| 32. Cover slips | 78. Nail clippers- guillotine |
| 33. Dehorner-electric | 79. Nail clippers-plier |
| 34. Dehorner-scoop or tube | 80. Obstetrical chain and handle |
| 35. Dental floats | 81. Ophthalmoscope |
| 36. Dental retractor | 82. Otoscope |
| 37. Dental scaler | 83. Paste gun |
| 38. Disposable hypodermic needles | 84. Pig tooth nippers |
| 39. Drench gun | 85. Pill counting tray |
| 40. Ear notcher | 86. Radiology personal protective equipment |
| 41. Ear tags | 87. Scalpel blade |
| 42. Ear tag (metal) pliers | 88. Scalpel handle |
| 43. Elastrator | 89. Scissors- bandage |
| 44. Elizabethian collar | 90. Scissors- Lister bandage |
| 45. Emasculators | 91. Scissors- Littauer suture removal |
| 46. Endotracheal tube | 92. Scissors- Mayo dissecting |

93. Scissors- Metzenbaum dissecting
94. Shedding blade
95. Silver nitrate sticks
96. Small animal oxygen cage
97. Squeeze chute
98. Steel lift table
99. Stethoscope
100. Surgical cap
101. Surgical gloves
102. Surgical gown
103. Surgical masks
104. Surgical tray
105. Suture materials
106. Suture needle
107. Syringe – leur lock
108. Syringe – slip tip
109. Syringe- Automatic, multi-dose
110. Tattooing instruments
111. Weight tape

PARASITES

112. **Coccidia** (Genus *Isoospora* or *Eimeria*)
113. **Ear Mite** (Family Ascaridae; Genus *Otodectes*)
114. **Fleas** (Genus *Ctenocephalides*)
115. **Flea Larva** (Genus *Ctenocephalides*)
116. **Flea Tapeworm** (Genus *Dipylidium*)
117. **Flea Tapeworm Egg** (Genus *Dipylidium*)
118. **Flea Tapeworm Segment** (Genus *Dipylidium*)
119. **Hard Tick** (Family Ixodidae; Genus *Amblyomma* or *Dermacentor*)
120. **Heartworm Adult** (Genus *Dirofilaria*)
121. **Heartworm Microfilaria** (Genus *Dirofilaria*)
122. **Hookworm Adult** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
123. **Hookworm Egg** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
124. **Horse Strongyles** (Family Strongylidae; Genus *Strongylus*)
125. **Lice – Biting** (Order Mallophaga; Genus *Bovicola* or *Trichodectes*)
126. **Lice – Sucking** (Order Anoplura; Genus *Linognathus* or *Hematopinus*)
127. **Mosquito Adult** (Family Culicidae; Genus *Anopheles*, *Culex*, or *Aedes*)
128. **Mosquito Larva** (Family Culicidae; Genus *Anopheles*, *Culex*, or *Aedes*)
129. **Roundworm Adult** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris*, or *Neoascaris*)
130. **Roundworm Egg** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris*, or *Neoascaris*)
131. **Whipworm** (Genus *Trichuris*)
132. **Whipworm Egg** (Genus *Trichuris*)

BREED/SPECIES IDENTIFICATION LIST**Dogs:****SPORTING GROUP**

- 133. Brittany
- 134. Cocker Spaniel
- 135. English Setter
- 136. German Shorthaired Pointer
- 137. Golden Retriever
- 138. Irish Setter
- 139. Labrador Retriever
- 140. Weimaraner

NON-SPORTING GROUP

- 141. Bichon Frise
- 142. Boston Terrier
- 143. Bulldog
- 144. Chinese Shar-Pei
- 145. Chow Chow
- 146. Dalmation
- 147. Lhaso Apso
- 148. Poodle

TERRIER GROUP

- 149. Bull Terrier
- 150. Miniature Schnauzer
- 151. Scottish Terrier
- 152. West Highland White Terrier

HERDING GROUP

- 153. Australian Shepherd
- 154. Border Collie
- 155. Collie
- 156. German Shepherd Dog
- 157. Pembroke Welsh Corgi

WORKING GROUP

- 158. Akita
- 159. Alaskan Malamute
- 160. Boxer
- 161. Bullmastiff
- 162. Doberman Pinscher
- 163. Great Dane
- 164. Mastiff
- 165. Newfoundland
- 166. Rottweiler
- 167. Saint Bernard
- 168. Samoyed
- 169. Siberian Husky
- 170. Standard Schnauzer

TOY GROUP

- 171. Cavalier King Charles Spaniel
- 172. Chihuahua
- 173. Italian Greyhound
- 174. Maltese
- 175. Miniature Pinscher
- 176. Papillon
- 177. Pekingese
- 178. Pomeranian
- 179. Poodle
- 180. Pug
- 181. Shih Tzu
- 182. Silky Terrier
- 183. Yorkshire Terrier

HOUND GROUP

- 184. Afghan Hound
- 185. American Foxhound
- 186. Basset Hound
- 187. Beagle
- 188. Bloodhound
- 189. Dachshund
- 190. English Foxhound
- 191. Greyhound
- 192. Whippet

Cats

- 193. Abyssinian
- 194. American Shorthair
- 195. Burmese
- 196. Maine Coon
- 197. Manx
- 198. Persian
- 199. Ragdoll
- 200. Russian Blue
- 201. Siamese
- 202. Sphynx

Rabbits

- 203. American Fuzzy Lop
- 204. Angora
- 205. Dutch
- 206. Flemish Giant
- 207. Holland Lop
- 208. Netherland Dwarf
- 209. New Zealand
- 210. Mini-Rex
- 211. Satin

Birds

- 212. Cockatiel
- 213. Cockatoos
- 214. Love Birds
- 215. Parakeet
- 216. African Gray Parrot
- 217. Canary
- 218. Macaw

Small Mammals

- 219. Chinchilla
- 220. Ferret
- 221. Gerbils
- 222. Guinea Pig
- 223. Hamster
- 224. Hedgehog
- 225. Sugar Glider

Reptiles

- 226. Chameleon
- 227. Gecko
- 228. Iguana
- 229. Lizard
- 230. Bearded Dragon
- 231. Snake
- 232. Turtle
- 233. Frog
- 234. Toad

Poultry

- 235. Chicken – Cornish
- 236. Chicken – Leghorns
- 237. Chicken – Rhode Island Red
- 238. Chicken – Plymouth Rock
- 239. Duck
- 240. Geese
- 241. Quail
- 242. Turkey

Dairy Cattle

- 243. Brown Swiss
- 244. Guernsey
- 245. Holstein
- 246. Jersey

Beef Cattle

- 247. Angus
- 248. Brahman
- 249. Charolais
- 250. Hereford

Swine

- 251. Berkshire
- 252. Duroc
- 253. Hampshire
- 254. Yorkshire

Horse

- 255. Appaloosa
- 256. Arabian
- 257. Clydesdale
- 258. Paint
- 259. Paso Fino
- 260. Quarter Horse
- 261. Tennessee Walking Horse
- 262. Thoroughbred

Goat

- 263. Alpine
- 264. Nubian
- 265. Angora
- 266. Boer
- 267. Pygmy

Sheep

- 268. Cheviot
- 269. Dorset
- 270. Merino
- 271. Rambouillet
- 272. Suffolk