



Islands FFA Senior Veterinary Science Career Development Event

An Invitational CDE hosted by the Islands FFA Chapter in cooperation with Fort Valley State University Veterinary Science and Public Health Academic Department.

Contact: Myria Shipman, Advisor
Islands High School FFA Chapter
170 Whitmarsh Island Rd.
Savannah, GA 31410
912-395-2000, ext. 797201
Myria.Shipman@sccpss.com

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:	200	800

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 announced for the following:

1. The top individual 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 and Placing in Cat Bag
2. Restraint of the Cat in Lateral Recumbency for Femoral Venipuncture
3. Applying a Cat Muzzle
4. Applying a Nylon Dog Muzzle
5. Applying a Gauze Dog Muzzle
6. Applying Elizabethan Collar
7. Restraint of the Small Dog in Lateral Recumbency
8. Haltering Ruminants
9. Haltering a Horse
10. Placing a Tail Tie

Clinical Procedures Practicums:

1. Administering an Intramuscular Injection
2. Administering a Subcutaneous Injection
3. Filling a Syringe for Injection
4. Opening a Surgery Pack
5. Surgical Site Preparation
6. Prescription Filling
7. Administering Aural Medication
8. Administering Ophthalmic Medication
9. Administering Oral Tablet/Capsule
10. Administering Topical Wound Treatment

Sample Student Directions:

Practicum #1: Applying a Cat Muzzle

Mrs. Purdy has brought in her cat “Tiger” for his annual vaccinations. “Tiger” lives up to his name and is very difficult to handle. The veterinarian has asked you to place a cat muzzle on Tiger. Please demonstrate how you would apply a cat muzzle 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 and Placing in Cat Bag

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.	2	
2. The student scruffs the cat with one hand and lifts it up.	2	
3. The student cradles the cat's abdomen with their other hand and removes the cat from the cage.	2	
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.	3	
5. The student carries the cat close to his/her body to the exam table.	3	
6. The student scruffs the cat and lifts it into the bag in one swift motion while supporting the hind end.	3	
7. The student wraps the Velcro strap around the cat's neck and immediately zips up the bag.	3	
8. The student uses the proper zippered opening to expose the front limb.	3	
9. 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.	4	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

**Restraint of the Cat in Lateral Recumbency for Femoral
Venipuncture**

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student places the cat on an examination table.	3	
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 or reach under cat to grasp both hind limbs.	7	
3. The student lays the cat on its side with the hind legs stretched rearward.	6	
4. The student tucks top rear leg and tail while occluding with side of hand.	7	
5. The student spoke to the patient in a calm and affectionate manner during the procedure.	2	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Applying a Cat Muzzle

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student selects a muzzle of appropriate size for the cat.	4	
2. The student places the cat in sitting or sternal position on exam table or floor.	3	
3. The student positions the muzzle properly in his/her hands	3	
4. The student approaches the cat from behind with the muzzle in both hands while another person restrains the cat.	5	
5. The student brings the muzzle up to the cat's face in one swift motion.	5	
6. The student secures the muzzle.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Applying a Nylon 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

Applying Elizabethan Collar

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student chooses the correct size of E-collar for the patient.	5	
2. The student correctly prepared the E-collar for placement.	5	
3. The student correctly placed the E-collar on the animal.	5	
4. Placement was adequately secured so the animal could not remove the E-collar.	5	
5. The E-collar was secured such that the animal's breathing was not restricted.	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

Haltering Ruminants

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. Without quick movements and loud noises, the student properly approaches the patient at a 45 degree angle to the patient's left shoulder.	5	
2. The student places crown piece of halter over ears, then slips nose through nosepiece.	5	
3. The student properly adjusts the halter such that the nose band crosses over bridge of nose halfway between the nostrils and eyes.	5	
4. The student ensures that the adjustable portion of the nose band is under the chin, not across the bridge of the nose.	5	
5. The student keeps the standing end or lead rope portion on the left side of the animal.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Haltering a Horse

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. Without quick movements and loud noises, the student properly approaches the patient at a 45 degree angle to the patient's left shoulder.	4	
2. The student places the 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.	4	
3. Holding the handheld loop in their right hand, with their left hand, the student slips the nose-band of the halter over the nose.	4	
4. 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.	4	
5. 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.	4	
6. 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.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Handling and Restraining Practicum

Placing a Tail Tie

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student lays the rope over the tail at the tip of the tail bone.	5	
2. The student folds all the tail hairs up over the rope.	4	
3. The student passes the short end of the rope behind the tail, and makes a fold or bight in it.	4	
4. The student passes the short end of the rope behind the tail, and makes a fold or bight in it.	4	
5. The student passes the fold or bight over the folded tail and under the rope, which is looped around the tail.	4	
6. The student pulls tight.	4	
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 directs the needle through the skin and into the muscle.	5	
3. The student aspirates; if no blood is noted, inject.	5	
4. The student withdraws the needle and places in the sharps container.	5	
5. The student massages the area where the injection was given and praises the patient.	5	
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, forming a triangle or tent with the skin.	5	
2. The student inserts the needle into the skin at the base of the tent or triangle parallel to the body.	5	
3. The student aspirates, looking for any signs of blood entering the syringe; if no blood enters the syringe, administers the injection.	5	
4. The student withdraws the needle and places in the sharps container.	5	
5. The student rubs the injection site and praises the patient.	5	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Filling a Syringe for Injection

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student determines the amount to be placed in the syringe.	4	
2. The student selects the proper-sized syringe.	4	
3. The student inserts the syringe into the top of the bottle.	2	
4. The student places the vial upside down in one hand and holds securely.	3	
5. The student withdraws the proper volume.	4	
6. The student removes the syringe from the bottle.	2	
7. 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.	3	
8. The student places syringe in the sharps container.	3	
TOTAL POINTS	25	

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 Site 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 moving in a circular motion and worked toward the edges.	4	
3. The student did not bring the sponge back to the incision site once it was moved away from the incision site.	4	
4. The student discarded the sponge once it reached the edge of the clipped area.	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. 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	
8. The student lifts the tray to place the channel sprout into the medicine vial and transfers medication.	2	
9. The student places the lid on the vial and sets it 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 successfully administered the proper amount of medication into the ear canal. <ul style="list-style-type: none"> • Ear pinna help upright • Correct amount of medication was administered without contamination. 	15	
2. 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.	5	
3. The student wipes any solution that may have leaked onto the outside of the ear flap or hair.	5	
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.	5	
2. The student opens the end of the ophthalmic medicine.	4	
3. 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.	5	
4. 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.	4	
5. The student releases the eyelids.	4	
6. The student allows the animal to blink to move the medication throughout the eye.	3	
TOTAL POINTS	25	

Notes:

Judge's Signature: _____

Veterinary Science
Clinical Procedures Practicum

Administering Oral Tablet/Capsule

Participant: _____

Participant must talk through practicum steps with judge.

Criteria	Points Possible	Points Earned
1. The student reads and interprets the veterinarian's order.	5	
2. The student selects the correct drug and concentration.	7	
3. The student was able to open the mouth of the animal.	3	
4. The student maintained control of the head or muzzle during the administration of the medication.	3	
5. The student used an appropriate technique to encourage the patient to swallow.	3	
6. 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.	4	
TOTAL POINTS	25	

Notes:

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	

Notes:

Judge's Signature: _____

Identification Lists

EQUIPMENT AND MATERIALS

- | | |
|--|---|
| 1. Ambubag | 39. Head gate |
| 2. Anesthetic machines | 40. Hog snare |
| 3. Autoclave | 41. Hoof knife |
| 4. Autoclave tape indicator | 42. Hoof rasp |
| 5. Backhaus towel clamps | 43. IV administration set |
| 6. Balling gun | 44. Laryngoscope |
| 7. Bandaging material-roll gauze | 45. Muzzle-basket |
| 8. Bandaging material- vet wrap | 46. Muzzle-nylon |
| 9. Bands (castration or docking) | 47. Needle holder – Mayo-Hegar |
| 10. Cat bag | 48. Needle holder – Olsen-Hegar |
| 11. Catch pole (dog snare) | 49. Obstetrical chain and handle |
| 12. Catheter – butterfly | 50. Ophthalmoscope |
| 13. Catheter- IV | 51. Otoscope |
| 14. Centrifuge | 52. Pig tooth nippers |
| 15. Chemical indicator strips | 53. Radiology personal protective equipment |
| 16. Cold sterile tray | 54. Rumen magnet |
| 17. Dehorner-Barnes | 55. Scalpel blade |
| 18. Dehorner-electric | 56. Scalpel handle |
| 19. Dental floats | 57. Scissors- bandage |
| 20. Dental scaler | 58. Scissors- Lister bandage |
| 21. Drench gun | 59. Scissors- Littauer suture removal |
| 22. Ear notcher | 60. Scissors- Mayo dissecting |
| 23. Elastrator | 61. Scissors- Metzenbaum dissecting |
| 24. Elizabethan collar | 62. Scissors-suture wire cutting |
| 25. Emasculators | 63. Silver nitrate sticks |
| 26. Endotracheal tube | 64. Small animal oxygen cage |
| 27. Fecal loop | 65. Snook ovariohysterectomy |
| 28. Fecalyzers | 66. Squeeze chute |
| 29. Feeding tube for small animals | 67. Staple remover |
| 30. Fetal extractor-calf | 68. Stethoscope |
| 31. Forceps – Alligator | 69. Surgical drapes |
| 32. Forceps – Allis tissue | 70. Suture needle-cutting |
| 33. Forceps – Babcock tissue | 71. Suture needle-taper |
| 34. Forceps – Brown-Adson thumb | 72. Syringe- Automatic, multi-dose |
| 35. Forceps – Crile | 73. Tattooing instruments |
| 36. Forceps – Halstead mosquito hemostatic | 74. Twitch-chain |
| 37. Forceps – Kelly | 75. Twitch-humane |
| 38. Forceps – Rat tooth thumb | |

PARASITES

76. **Coccidia** (Genus *Isospora* or *Eimeria*)
77. **Ear Mite** (Family Psoroptidae; Genus *Otodectes*)
78. **Fleas** (Genus *Ctenocephalides*)
79. **Flea Larva** (Genus *Ctenocephalides*)
80. **Flea Tapeworm** (Genus *Dipylidium*)
81. **Flea Tapeworm Egg** (Genus *Dipylidium*)
82. **Flea Tapeworm Segment** (Genus *Dipylidium*)
83. **Heartworm Adult** (Genus *Dirofilaria*)
84. **Heartworm Microfilaria** (Genus *Dirofilaria*)
85. **Hookworm Adult** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
86. **Hookworm Egg** (Family Ancylostomatidae; Genus *Ancylostoma*, *Uncinaria*, *Bunostomum* or *Globocephalus*)
87. **Horse Strongyles** (Family Strongylidae; Genus *Strongylus*)
88. **Lice – Biting** (Order Mallophaga; Genus *Bovicola* or *Trichodectes*)
89. **Lice – Sucking** (Order Anoplura; Genus *Linognathus* or *Hematopinus*)
90. **Mosquito Adult** (Family Culicidae; Genus *Anopheles*, *Culex*, or *Aedes*)
91. **Mosquito Larva** (Family Culicidae; Genus *Anopheles*, *Culex*, or *Aedes*)
92. **Roundworm Adult** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris*, or *Neoascaris*)
93. **Roundworm Egg** (Family Ascarididae or Toxocaridae; Genus *Toxocara*, *Toxascaris*, *Ascaris*, *Parascaris*, or *Neoascaris*)
94. **Whipworm** (Genus *Trichuris*)
95. **Whipworm Egg** (Genus *Trichuris*)

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

- 96. Brittany
- 97. Cocker Spaniel
- 98. English Setter
- 99. German Shorthaired Pointer
- 100. Golden Retriever
- 101. Irish Setter
- 102. Labrador Retriever
- 103. Weimaraner

NON-SPORTING GROUP

- 104. Bichon Frise
- 105. Boston Terrier
- 106. Bulldog
- 107. Chinese Shar-Pei
- 108. Chow Chow
- 109. Dalmation
- 110. Poodle

TERRIER GROUP

- 111. Bull Terrier
- 112. Scottish Terrier
- 113. West Highland White Terrier

HERDING GROUP

- 114. Australian Shepherd
- 115. Border Collie
- 116. Collie
- 117. German Shepherd Dog
- 118. Pembroke Welsh Corgi

WORKING GROUP

- 119. Boxer
- 120. Doberman Pinscher
- 121. Great Dane
- 122. Mastiff
- 123. Newfoundland
- 124. Rottweiler
- 125. Saint Bernard
- 126. Siberian Husky
- 127. Standard Schnauzer

TOY GROUP

- 128. Cavalier King Charles Spaniel
- 129. Chihuahua
- 130. Miniature Pinscher
- 131. Papillon
- 132. Pekingese
- 133. Pomeranian
- 134. Poodle
- 135. Pug
- 136. Shih Tzu
- 137. Yorkshire Terrier

HOUND GROUP

- 138. Afghan Hound
- 139. Basenji
- 140. Basset Hound
- 141. Beagle
- 142. Bloodhound
- 143. Dachshund
- 144. Greyhound

Cats

- 145. Abyssinian
- 146. American Shorthair
- 147. Burmese
- 148. Maine Coon
- 149. Manx
- 150. Persian
- 151. Ragdoll
- 152. Russian Blue
- 153. Siamese
- 154. Sphynx

Rabbits

- 155. Angora
- 156. Dutch
- 157. Holland Lop
- 158. Mini Rex
- 159. Netherland Dwarf
- 160. New Zealand

Birds

- 161. African Gray Parrot
- 162. Canary
- 163. Cockatiel
- 164. Cockatoos
- 165. Love Birds
- 166. Parakeet
- 167. Macaw

Small Mammals

- 168. Chinchilla
- 169. Ferret
- 170. Gerbils
- 171. Guinea Pig
- 172. Hamster
- 173. Hedgehog
- 174. Sugar Glider

Reptiles

- 175. Bearded Dragon
- 176. Chameleon
- 177. Gecko
- 178. Iguana

Poultry

- 179. Chicken – Cornish
- 180. Chicken – Leghorns
- 181. Chicken – Plymouth Rock
- 182. Chicken – Rhode Island Red
- 183. Duck
- 184. Geese
- 185. Quail
- 186. Turkey

Dairy Cattle

- 187. Brown Swiss
- 188. Guernsey
- 189. Holstein
- 190. Jersey

Beef Cattle

- 191. Angus
- 192. Brahman
- 193. Charolais
- 194. Hereford

Swine

- 195. Berkshire
- 196. Duroc
- 197. Hampshire
- 198. Yorkshire

199. Horse

- 200. Appaloosa
- 201. Arabian
- 202. Clydesdale
- 203. Paint
- 204. Quarter Horse
- 205. Tennessee Walking Horse
- 206. Thoroughbred

Goat

- 207. Alpine
- 208. Nubian
- 209. Angora
- 210. Boer
- 211. LaMancha

Sheep

- 212. Columbia
- 213. Dorset
- 214. Merino
- 215. Rambouillet
- 216. Suffolk