



VETERINARY SCIENCE RESOURCE GUIDE



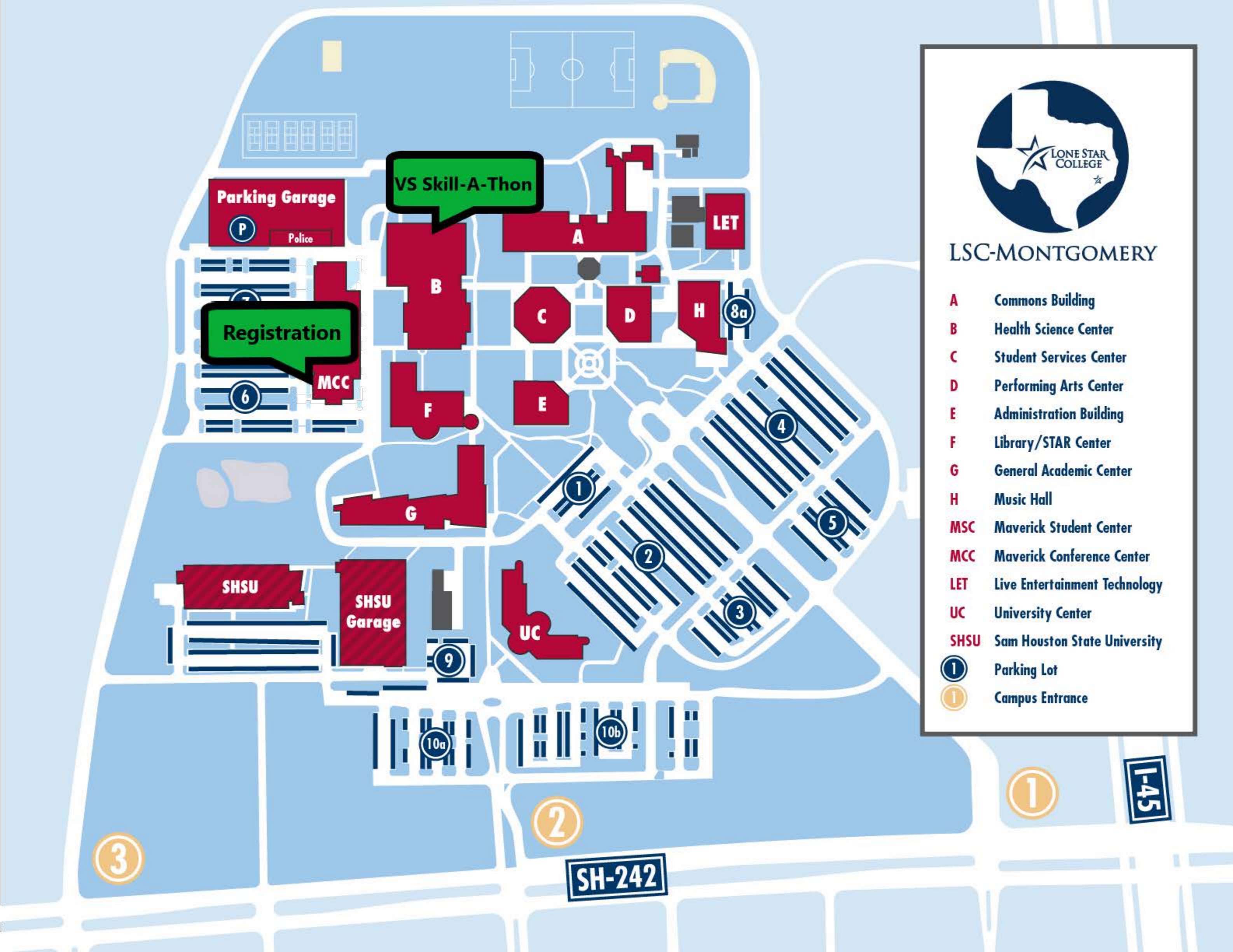
BIG TIME IN D9

2025



LSC-MONTGOMERY

- A** Commons Building
- B** Health Science Center
- C** Student Services Center
- D** Performing Arts Center
- E** Administration Building
- F** Library/STAR Center
- G** General Academic Center
- H** Music Hall
- MSC** Maverick Student Center
- MCC** Maverick Conference Center
- LET** Live Entertainment Technology
- UC** University Center
- SHSU** Sam Houston State University
- ①** Parking Lot
- ①** Campus Entrance



HORTICULTURE
CDE# 105482

Team Name

Incorrect Marks X
 Correct Mark

Veterinary Science Skill-A-Thon
Big Time in D9

Team Number	State	Last Name	First Name
0 0 0 0			
1 1 1 1	A	A A A A A A A A A A	A A A A A A A A
2 2 2 2	B	B B B B B B B B B B	B B B B B B B B
3 3 3 3	C	C C C C C C C C C C	C C C C C C C C
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7 7 7 7	G	G G G G G G G G G G	G G G G G G G G
8 8 8 8	H	H H H H H H H H H H	H H H H H H H H
9 9 9 9	I	I I I I I I I I I I	I I I I I I I I
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	K	K K K K K K K K K K	K K K K K K K K
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	M	M M M M M M M M M M	M M M M M M M M
	N	N N N N N N N N N N	N N N N N N N N
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	Q	Q Q Q Q Q Q Q Q Q Q	Q Q Q Q Q Q Q Q
	R	R R R R R R R R R R	R R R R R R R R
	S	S S S S S S S S S S	S S S S S S S S
	T	T T T T T T T T T T	T T T T T T T T
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	V	V V V V V V V V V V	V V V V V V V V
	W	W W W W W W W W W W	W W W W W W W W
	X	X X X X X X X X X X	X X X X X X X X
	Y	Y Y Y Y Y Y Y Y Y Y	Y Y Y Y Y Y Y Y
	Z	Z Z Z Z Z Z Z Z Z Z	Z Z Z Z Z Z Z Z

Code

0 0
1 1
2 2
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8 8
9 9

Team Activity		Practicums (Judges)					
Team	Incl.	1	2	3	4	5	6
0 0 0 0 0 0							
1 1 1 1 1 1							
2 2 2 2 2 2							
3 3 3 3 3 3							
4 4 4 4 4 4							
5 5 5 5 5 5							
6 6 6 6 6 6							
7 7 7 7 7 7							
8 8 8 8 8 8							
9 9 9 9 9 9							

DO NOT USE THIS SECTION

Assessment and Solution	
1 A B C D	6 A B C D
2 A B C D	7 A B C D
3 A B C D	8 A B C D
4 A B C D	9 A B C D
5 A B C D	10 A B C D
11 A B C D	17 A B C D
12 A B C D	18 A B C D
13 A B C D	19 A B C D
14 A B C D	20 A B C D
15 A B C D	21 A B C D
16 A B C D	22 A B C D
17 A B C D	23 A B C D
18 A B C D	24 A B C D
19 A B C D	25 A B C D

Exam		Exam 2/Team	
1 A B C D	27 A B C D	1 A B C D	
2 A B C D	28 A B C D	2 A B C D	
3 A B C D	29 A B C D	3 A B C D	
4 A B C D	30 A B C D	4 A B C D	
5 A B C D	31 A B C D	5 A B C D	
6 A B C D	32 A B C D	6 A B C D	
7 A B C D	33 A B C D	7 A B C D	
8 A B C D	34 A B C D	8 A B C D	
9 A B C D	35 A B C D	9 A B C D	
10 A B C D	36 A B C D	10 A B C D	
11 A B C D	37 A B C D	11 A B C D	
12 A B C D	38 A B C D	12 A B C D	
13 A B C D	39 A B C D	13 A B C D	
14 A B C D	40 A B C D	14 A B C D	
15 A B C D	41 A B C D	15 A B C D	
16 A B C D	42 A B C D	16 A B C D	
17 A B C D	43 A B C D	17 A B C D	
18 A B C D	44 A B C D	18 A B C D	
19 A B C D	45 A B C D	19 A B C D	
20 A B C D	46 A B C D	20 A B C D	
21 A B C D	47 A B C D	21 A B C D	
22 A B C D	48 A B C D	22 A B C D	
23 A B C D	49 A B C D	23 A B C D	
24 A B C D	50 A B C D	24 A B C D	
25 A B C D		25 A B C D	

DO NOT USE THIS SECTION





Big Time In D9 Skill-A-Thon Drop Sheet



Exam	
1.	26.
2.	27.
3.	28.
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Breeds/Species 1-25 go in ID A Section 1-25	
1.	14.
2.	15.
3.	16.
4.	17.
5.	18.
6.	19.
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8.	21.
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12.	25.
13.	

Instruments go in ID A Section 26-50	
26.	39.
27.	40.
28.	41.
29.	42.
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31.	44.
32.	45.
33.	46.
34.	47.
35.	48.
36.	49.
37.	50.
38.	

Math Practicum in Assessment and Solution	
1.	
2.	
3.	
4.	
5.	

Parasites & Organs go in ID B Section 1-25	
1.	14.
2.	15.
3.	16.
4.	17.
5.	18.
6.	19.
7.	20.
8.	21.
9.	22.
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11.	24.
12.	25.
13.	

Instruments	
100	Ambubag
101	Anesthetic machines
102	Autoclave
103	Autoclave tape indicator
104	Backhaus towel clamps
105	Balling gun
106	Bandaging material — Elasticon
107	Bandaging material — roll gauze
108	Bandaging material — vet wrap
109	Bands (castration or docking)
110	Cat bag
111	Catch pole (dog snare)
112	Catheter — butterfly
113	Catheter — IV
114	Catheter — Tomcat urinary
115	Centrifuge
116	Chemical indicator strips
117	Cold sterile tray
118	Dehorner — Barnes
119	Dehorner — electric
120	Dental floats
121	Dental scaler
122	Drench gun — small ruminant
123	Ear notcher
124	Elastrator
125	Elizabethan collar
126	Emasculators
127	Endoscope
128	Endotracheal tubes
129	Fecal loop
130	Fecalyzers
131	Feeding tube for small animals
132	Fetal extractor — calf
133	Forceps — Alligator
134	Forceps — Allis tissue
135	Forceps — Babcock tissue
136	Forceps — Brown-Adson thumb
137	Forceps — Crile
138	Forceps — Kelly
139	Forceps — Halstead mosquito hemostatic
140	Forceps — Rat tooth thumb
141	Gravity feeder / J tube
142	Head gate
143	Hog snare
144	Hoof knife
145	Hoof rasp
146	IV administration set
147	Laparoscope
148	Laryngoscopes
149	Muzzle — basket
150	Muzzle — nylon
151	Needle holder — Mayo-Hegar
152	Needle holder — Olsen-Hegar
153	Obstetrical chain and handle
154	Ophthalmoscope

155	Otoscope
156	Pig tooth nippers
157	Radiology personal protective equipment
158	Rectal prolapse ring — swine
159	Rumen magnet
160	Scalpel blade
161	Scalpel handle
162	Scissors — Suture wire cutting
163	Scissors — Bandage
164	Scissors — Lister bandage
165	Scissors — Littauer suture removal
166	Scissors — Mayo dissecting
167	Scissors — Metzenbaum dissecting
168	Silver nitrate sticks
169	Small animal oxygen cage
170	Snook ovariectomy hook
171	Speculum — large animal oral
172	Speculum — small animal oral
173	Speculum — vaginal
174	Squeeze chute
175	Staple remover
176	Stethoscope
177	Surgical drapes
178	Suture needle — cutting
179	Suture needle — taper
180	Syringe — automatic, multi-dose
181	Tattooing instruments — small and large
182	Tonometer
183	Tourniquet
184	Trocar and cannula
185	Twitch chain
186	Twitch humane
Parasite / Micro	
200	Blowfly (Family Calliphoridae)
201	Calcium oxalate crystals
202	Cat Warble (Genus Cuterebra)
203	Cocci (bacteria)
204	Coccidia (Genus Isospora or Eimeria)
205	Demodectic Mite (Genus Demodex)
206	Ear Mite (Family Psoroptidae ; Genus Otodectes)
207	Eosinophils
208	Epithelial cells (urine)
209	Flea Larva (Genus Ctenocephalides)
210	Flea Tapeworm Egg (Genus Dipylidium)
211	Flea Tapeworm Segment (Genus Dipylidium)
212	Flea Tapeworm (Genus Dipylidium)
213	Fleas (Genus Ctenocephalides)
214	Giardia (Genus Giardia)
215	Heartworm Adult (Genus Dirofilaria)
216	Heartworm Microfilaria (Genus Dirofilaria)
217	Hookworm Adult
218	Hookworm Egg
219	Horse Bots (Genus Gasterophilus)

220	Horse Strongyles (Family Strongylidae; Genus Strongylus)
221	Lice — Biting
222	Lice — Sucking
223	Liver Fluke
224	Mosquito Adult
225	Mosquito Larva
226	Neutrophils
227	Platelets
228	Red blood cell (erythrocyte)
229	Rod (bacteria)
230	Roundworm Adult
231	Roundworm Egg
232	Sarcoptic Mite
233	Struvite crystals (triple magnesium phosphate)
234	Taenia Tapeworm Egg (Family Taeniidae; Genus Taenia)
235	Taenia Tapeworm Segment
236	Taenia Tapeworm* (Family Taeniidae; Genus Taenia)
237	Tick — American Dog
238	Tick — Black Legged Deer
239	Tick — Brown Dog
240	Tick — Lonestar
241	Whipworm Egg (Genus Trichuris)
242	Whipworm (Genus Trichuris)
243	Yeast (cytology)
Organs	
655	Uterine horn/horns
656	Gall bladder
657	Heart
658	Kidney
659	Liver
660	Lungs
661	Ovary
662	Ruminant stomach
663	Monogastric stomach
664	Rumen
665	Reticulum
666	Omasum
667	Abomasum
668	Large intestine
669	Small intestine
670	Trachea
671	Uterus
672	Cervix
673	Cecum
674	Testicle
675	Spleen
676	Brain
677	Esophagus

Dogs - Herding Group	
300	Australian Cattle Dog
301	Australian Shepherd
302	Border Collie
303	Collie
304	German Shepherd Dog
305	Old English Sheepdog
306	Pembroke Welsh Corgi
307	Shetland Sheepdog
Dogs - Hound Group	
308	Afghan Hound
309	Basenji
310	Basset Hound
311	Beagle
312	Black and Tan Coonhound
313	Bloodhound
314	Dachshund
315	Greyhound
316	Rhodesian Ridgeback
Dogs - Non-Sporting Group	
317	Bichon Frise
318	Boston Terrier
319	Bulldog
320	Chinese Shar-Pei
321	Chow Chow
322	Dalmatian
323	Poodle
Dogs - Sporting Group	
324	Brittany Spaniel
325	Cocker Spaniel
326	English Setter
327	German Shorthaired Pointer
328	Golden Retriever
329	Irish Setter
330	Labrador Retriever
331	Weimaraner
Dogs - Terrier Group	
332	Bull Terrier
333	Cairn Terrier
334	Parson Russell Terrier
335	Scottish Terrier
336	West Highland White Terrier
Dogs - Toy Group	
337	Cavalier King Charles Spaniel
338	Chihuahua
339	Miniature Pinscher
340	Papillon
341	Pekingese
342	Pomeranian
343	Toy Poodle
344	Pug
345	Shih Tzu
346	Yorkshire Terrier
Dogs - Working Group	
347	Bernese Mountain Dog
348	Boxer

349	Doberman Pinscher
350	Great Dane
351	Great Pyrenees
352	Mastiff
353	Newfoundland
354	Portuguese Water Dog
355	Rottweiler
356	Saint Bernard
357	Siberian Husky
358	Standard Schnauzer
Cats	
359	Abyssinian
360	American Shorthair
361	Burmese
362	Maine Coon
363	Manx
364	Persian
365	Ragdoll
366	Russian Blue
367	Siamese
368	Sphynx
Birds	
369	African Gray Parrot
370	Canary
371	Cockatiel
372	Cockatoos
373	Love Birds
374	Macaw
375	Parakeet
376	Sun Conure
377	Zebra Finch
Reptiles	
378	Bearded Dragon
379	Chameleon
380	Gecko
381	Iguana
Poultry	
382	Chicken — Cornish
383	Chicken — Leghorns
384	Chicken — Plymouth Rock
385	Chicken — Rhode Island Red
386	Duck
387	Geese
388	Quail
389	Turkey
Small Mammals	
390	Chinchilla
391	Ferret
392	Gerbils
393	Guinea Pig
394	Hamster
395	Hedgehog
396	Sugar Glider
Rabbits	
397	Angora
398	Californian

399	Dutch
400	English Spot
401	Holland Lop
402	Mini-Rex
403	Netherland Dwarf
404	New Zealand
Dairy Cattle	
405	Ayrshire
406	Brown Swiss
407	Guernsey
408	Holstein
409	Jersey
Beef Cattle	
410	Angus
411	Brahman
412	Charolais
413	Hereford
414	Shorthorn
415	Simmental
Horse	
416	Appaloosa
417	Arabian
418	Belgian
419	Clydesdale
420	Morgan
421	Paint
422	Percheron
423	Quarter Horse
424	Saddlebred
425	Tennessee Walking Horse
426	Thoroughbred
Goat	
427	Alpine
428	Nubian
429	Angora
430	Boer
431	LaMancha
432	Saanen
433	Toggenburg
Sheep	
434	Columbia
435	Dorper
436	Dorset
437	Hampshire
438	Merino
439	Rambouillet
440	Southdown
441	Suffolk
Swine	
442	American Landrace
443	Berkshire
444	Chester White
445	Duroc
446	Hampshire
447	Yorkshire

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)

$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$ or $(^{\circ}\text{F} - 32) \times \frac{5}{9}$
 $^{\circ}\text{F} = \frac{9}{5} (^{\circ}\text{C}) + 32$ or $^{\circ}\text{C} \times \frac{9}{5} + 32$

PRACTICUM LIST

Only SENIOR Members will complete practicum

1. Preparing a Surgery Pack
2. Suture Removal
3. Nylon Muzzle
4. Opening a Surgery Pack
5. Administering an Aural Medication
6. Filling a Prescription
7. Restraint for Jugular Venipuncture
8. Placing a Tail Tie

All practicum rubrics may be found at the Peer Program Website:

<https://vetmed.tamu.edu/peer/ffa-veterinary-science-practicum-rubrics/>

REFERENCE MATERIALS

- Veterinary Science, Preparatory Training for the Veterinary Assistant, Author: Floron C. Faries, Jr. DVM, MS. **Chapters 9, 11, 13, 15, and 17**
- Veterinary Science Career Development Event- Student Workbook, Author: Texas A&M AgriLife Extension, Veterinary Science Certificate Program
- Veterinary Assistant Handbook- First Edition, Author: Floron C. Faries, Jr. DVM, MS
- Veterinary Science Career Development Events Handbook, Author: Joe W. Mask, Ph.D.
- Cornell Veterinary Curriculum
- Veterinary Instruments and Equipment- A Pocket Guide, Author: Teresa F Sonsthagen, BS, LVT
- Review Questions and Answers for Veterinary Technicians, Author: Thomas P Colville, DVM
- American Kennel Club Breed Website- <https://www.akc.org/dog-breeds/>
- Cat Fanciers' Association Breed Website- <https://cfa.org/breeds/>
- Oklahoma State University- <https://breeds.okstate.edu/?Forwarded=afs.okstate.edu/breeds/>
- Peer Program- <https://vetmed.tamu.edu/peer/ffa-veterinary-science/>