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| **COURSE:**  | Veterinary Assisting | **UNIT A** | Veterinary Practice Management/Client Relations |
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| **Essential Standard:** | 1.00 | 15% | C4 | Analyze proper usage of veterinary practice management procedures |
| **Objective**:  | 1.01 | 9% | C2 | Understand the proper veterinary terminology to accurately describe and record medical conditions |
| **Source of Information: *Veterinary Assisting: Fundamentals and Applications-* Beth Vanhorn and Robert W. Clark Chapter 1 (pages 2-12)** |
| **Essential Questions:** * What are veterinary terminology medical terms?
* What are the common prefixes, suffixes, and root words?
* What are the common veterinary medical terms related to direction, species, patient history, and pharmacy?
* What are the common veterinary medical abbreviations?
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| **UNPACKED CONTENT** |
| **Note to Teacher: Create guided notes and/or visual presentations for unpacked content** |

1. Veterinary Medical Terminology

A. Based on Latin and Greek words

1. Material taken from Veterinary Assisting: Fundamentals and Applications chapter 1
2. Dissecting a Term
3. Dissect or separated them to define their meanings
4. Prefix is at the beginning of the word
5. Root word gives the team its essential meaning. A term may have more than one root word.
6. Suffix is at the end of the word
7. Combining vowel allows for certain terms to be pronounced more easily. Usually the letter “o” but can be any vowel.
8. Common Root Words

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| Root | Meaning |
| Arthr/o- | Joint |
| Cardi/o- | Heart |
| Chem/o- | Chemical |
| Col/o- | Colon |
| Cutane/o- | Skin |
| Cyst/o- | Urinary bladder |
| Dent/o- | Teeth |
| Electr/o- | Electricity |
| Enter/o- | Intestines |
| Gastr/o- | Stomach |
| Hem/o- | Blood |
| Hepat/o- | Liver |
| Hyster/o- | Uterus |
| Lapar/o- | Abdomen |
| Mast- | Mammary gland |
| Nas/o- | Nose |
| Nephr/o- | Kidneys |
| Oste/o- | Bone |
| Ovari/o- | Ovary |
| Radi/o- | Radiation |
| Rect/o- | Rectum |
| Rhin/o- | Nose |
| Urin/o- | Urine |
| Uter/o- | Uterus  |

1. Suffixes Meaning “Pertaining To”

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| Suffix | Term | Meaning |
| -ac | Cardiac | Pertaining to the heart |
| -al | Renal | Pertaining to the kidney |
| -an | Ovarian | Pertaining to the ovary |
| -ar | Lumbar | Pertaining to the loin or lower back |
| -ary | Alimentary | Pertaining to the gastrointestinal tract |
| -eal | Laryngeal | Pertaining to the larynx |
| -ic | Enteric | Pertaining to the intestines |
| -ine | Uterine | Pertaining to the uterus |
| -ous | Cutaneous | Pertaining to the skin |
| -tic | Nephrotic | Pertaining to the kidneys |

1. Common Prefixes

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| Prefix | Meaning | Example | Definition |
| a- or an- | Without; no | Anemia | Without or no blood cell production |
| Ab- | Away from | Abduction | Away from the center o the body |
| Ad- | Toward | Adduction | Toward the center of the body |
| Anti- | Against; to stop | Anticoagulant | Medicine used to stop bleeding |
| Dys- | Difficult; painful | Dysuria | Difficult or painful urination |
| Ecto- | Outside | Ectoskeleton | Bones located outside the body |
| Endo- | Within, inside | Endothermic | Body temperature controlled within the body |
| Exo- | Outside | Exothermic | Body temperature controlled outside of the body |
| Hyper- | Above normal | Hyperglycemia | High blood sugar |
| Hypo- | Below normal | Hypoglycemia | Low blood sugar |
| Inter- | Between | Interdigital | Between the toes |
| Intra- | Within | Intramuscular | Within the muscles |
| Oligo- | Very little | Oliguria | Very little urine production |
| Peri- | Around | Perioperative | Around or during the surgery |
| Poly- | Many, excessive | Polyuria | Excessive urine production |
| Post- | After | Postoperative | After the surgery |
| Pre- | Before | Preanesthetic | Before anesthesia |
| Sub- | Below | Subcutaneous | Below the skin |
| Super- | Above | Superimposed | Above the surface |

1. Common Suffixes

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| --- | --- | --- | --- |
| Suffix | Meaning | Example | Definition |
| -centesis | Surgical puncture into | Cystocentesis | Surgical puncture with a needle into the urinary bladder |
| -ectomy | Surgical removal of | Ovariohysterectomy | Surgical removal of the ovaries and uterus |
| -emia | Blood | Hypocalcemia | Low blood calcium |
| -gram | A record of | Electrocardiogram | A record of the electrical activity of the heart |
| -graph | To record with an instrument | Radiograph | A record made using radiation; x-ray |
| -graphy | The act of recording using an instrument | Radiography | The act of taking a picture using radiation |
| -itis | Inflammation | Colitis | Inflammation of the colon |
| -logy | The study of  | Histology | The study of tissues |
| -lysis | To break down | Urinalysis | The breakdown of urine into parts |
| -megaly | Enlargement of | Cardiomegaly | Enlargement of the heart |
| -osis | Condition | Osteoporosis | Condition of bone loss |
| -pathy | Disease | Cardiopathy | Heart disease |
| -pexy | To suture to | Gastropexy | To suture to the stomach |
| -plasty | To surgically repair | Rhinoplasty | Surgical repair of the nose |
| -rrhage- | To burst | Hemorrhage | The bursting of the blood; bleeding |
| -rrhea- | To flow | Diarrhea | The flow of feces |
| -scope | Instrument used to view | Microscope | Instrument used to view small items |
| -scopy | The act of using an instrument for viewing | Endoscopy | The act of using a scope to view the inside of the body |
| -stomy | To create a new surgical opening | Cystostomy | To create a new surgical opening in the urinary bladder |
| -therapy | Treatment | Chemotherapy | Treatment of chemicals |
| -tomy | To cut into surgically; to make an incision | Cystotomy | To make an incision into the urinary bladder |

1. Putting it all together
2. When dissecting a term use a slash mark to divide the term
3. Examples:
	1. arthr/itis🡪 inflammation of the joint
	2. cardio/logy🡪the study of the heart
	3. cardio/megaly 🡪 enlargement of the heart
4. Common Directional Terms

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| Term | Meaning |
| Aspect | Area |
| Caudal | Toward the tail |
| Cranial | Toward the head |
| Distal | Away from the center of the body |
| Dorsal | Toward the back area  |
| Lateral | Side of the body; toward the outside |
| Medial | Inside of an area; toward the inside |
| Palmar | The bottom of the front feet |
| Plantar | The bottom of the rear feet |
| Proximal | Closer to the center of the body |
| Recumbency | Lying in position |
| Recumbent | Lying |
| Rostral | Toward the nose |
| Traverse | Across an area dividing it into cranial and caudal sections |
| Ventral | Toward the abdomen or belly area |

1. Veterinary Terms and Abbreviations
2. Species Terms
	1. Amphibian- frog/toad
	2. Avian- bird
	3. Bovine- cow
	4. Canine- dog
	5. Caprine- goat
	6. Cavy- guinea pig
	7. Equine- horse
	8. Feline- cat
	9. Lagomorph- rabbit
	10. Murine- rat or mouse
	11. Ovine- sheep
	12. Porcine- pig or swine
	13. Poultry- chicken and turkey
	14. Primate- monkey and ape
	15. Reptile- snake and lizard
	16. Terrapin- turtle
3. Common Animal Terms

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| --- | --- | --- | --- |
| Term | Definition | Term  | Definition |
| Bitch | Intact female dog | Farrowing | Labor process of swine |
| Litter | Group of newborn dogs | Gilt | Young female pig that has not farrowed |
| Puppy | Young dog | Piglet | Young pig |
| Stud dog | Intact male dog | Stag | Male pig castrated after maturity |
| Whelping | The labor process of dogs | Colt | Young male horse |
| Kitten | Young cat | Filly | Young female horse |
| Tom | Intact male cat; male turkey | Foal | Young male or female horse |
| Queen | Intact female cat | Gelding | Castrated male horse; castrated male llama |
| Queening | The labor process of cats | Hand | The measurement of a horse equal to 4 inches |
| Buck | Male rabbit; male goat; male deer | Herd | Group of horses |
| Doe | Female rabbit; female goat; female deer | Horse | Horse over 14.2 hands in height |
| Kindling | Labor process of rabbits and ferrets | Mare | Intact female horse |
| Kit | Young rabbit; young ferret | Pony | Horse under 14.2 hands |
| Lapin | Neutered male rabbit | Stallion | Intact adult male horse |
| Gib | Neutered male ferret | Weanling | Young horse under a year of age |
| Hob | Intact male ferret | Yearling | Young horse between the ages of 1 and 2 years |
| Jill | Intact female ferret | Donkey | Donkey crossed with a donkey |
| Sprite | Neutered female ferret | Hinny | Cross of a male horse and a female donkey |
| Boar | Male guinea pig; male pig | Jack | Intact male donkey |
| Pup | Young guinea pig; young mouse; young rat; young dog | Jenny | Intact female donkey |
| Sow | Female guinea pig; female pig | Mule | Cross of a male donkey and a female horse |
| Dam | Female rat; female mouse; term for a female parent that is breeding | Ewe | Intact female sheep |
| Sire | Male rat; male mouse; term for a male parent that is breeding | Lamb | Young sheep |
| Chick | Young parrot; young chicken | Lambing | Labor process of sheep |
| Cock | Male parrot; male chicken | Ram | Intact male sheep |
| Flock | Group of birds; group of chickens, turkeys or ducks | Wether | Castrated male sheep; castrated male goat |
| Hen | Female parrot; female chicken; female turkey | Freshening | Labor process of dairy-producing animals |
| Clutch | Group of eggs | Kid | Young goat |
| Poult | Young turkey; young chicken | Kidding | Labor process of goats |
| Capon | Young castrated male chicken | Bull | Intact male cow; intact male llama |
| Cockerel | Immature male chicken | Cow | Intact female cow; intact female llama |
| Pullet | Immature female chicken | Cria | Young llama |
| Rooster | Male chicken | Calf | Young cow |
| Drake | Male duck | Calving | Labor process of cows |
| Duck | Female duck | Heifer | Young female cow that has not been bred |
| Duckling | Young duck | Stag | Mature castrated male cow |
| Barrow | Young castrated male pig | Steer | Young castrated male cow |

1. Common Veterinary Abbreviations
	1. C or cast- castrated
	2. C-sect- C-section or caesarian section
	3. d- day
	4. d/c-discharge
	5. DLH- domestic long hair (cat)
	6. DSH- domestic short hair (cat)
	7. d/o-drop off
	8. EX-exotic
	9. F- female
	10. K-9-dog or canine
	11. M-male
	12. Mo-month
	13. NM-neutered male
	14. o-owner
	15. p/u-pick up
	16. rec-recommend
	17. S or SF- spayed or spayed female
	18. S/R- suture removal
	19. Sx- surgery
	20. Wk-week
	21. Y or yr- year
2. Terms related to Patient History
	1. Anorexia- not eating or decreased appetite
	2. BM- bowel movement
	3. D- diarrhea
	4. Dysuria-difficulty or trouble with urination
	5. Dz- disease
	6. HBC- hit by car
	7. Hematuria- blood in the urine
	8. Hx- history
	9. Lethargic-tired or inactive
	10. PD-polydipsia (increased thirst)
	11. PU-polyuria (increased urination)
	12. U-urine
	13. V-vomiting
	14. V/D-vomiting and diarrhea
3. Terms Related to Physical Examination
	1. Acute-short term
	2. Anals or AG- anal glands
	3. BAR- bright, alert, responsive
	4. CHRONIC- long term
	5. CRT- capillary refill time
	6. Dx- diagnosis
	7. FeLV- feline leukemia virus
	8. FIP- feline infectious peritonitis
	9. FIV- feline immunodeficiency virus
	10. HR- heart rate
	11. L- left
	12. LN- lymph node
	13. mm- mucous membranes
	14. N or [-] negative
	15. NR- nothing reported
	16. NSF- no signs found
	17. PE- physical exam
	18. Px- prognosis
	19. QAR- quiet, alert, responsive
	20. R- right
	21. RR- respiratory rate
	22. Rx- prescription
	23. SOAP- Subjective, Objective, Assessment, Plan
	24. TPR- temperature, pulse, respiration
	25. Tx- treatment
	26. URI- upper respiratory infection
	27. UTI- urinary tract infection
	28. WNL- within normal limits
	29. Wt- weight
	30. + positive
4. Laboratory Terms and Abbreviations
	1. Bx- biopsy
	2. CBC- complete blood count
	3. CHEM- blood chemistry panel
	4. C/S or C&S- culture and sensitivity
	5. Cysto- cystocentesis
	6. Fecal- fecal or stool sample
	7. HW- heart worm
	8. PCV- packed cell volume
	9. T4- thyroid test
	10. UA- urinalysis
5. Pharmacy Terms and Abbreviations
	1. BID- twice a day
	2. Cap- capsule
	3. cc- cubic centimeter
	4. d- day
	5. EOD- every other day
	6. h- hour
	7. kg- kilogram
	8. mg- milligram
	9. ml- milliliter
	10. NPO- nothing by mouth
	11. oz- ounces
	12. PO- by mouth
	13. prn- refill as needed (per required need)
	14. q-every
	15. qd-every day
	16. QID- four times a day
	17. Rx- prescription
	18. SID- once a day
	19. Tab- tablet
	20. TID- three times a day
	21. w-week
	22. / -per
	23. # or lb- pound
	24. #- number of tablets to dispense
6. Eyes and Ears
	1. AD- right ear
	2. AS- left ear
	3. AU- both ears
	4. OD- right eye
	5. OS-left eye
	6. OU- both eyes
7. Routes of Medical Administration
	1. Adm.- administer
	2. IC- intracardiac (into the heart)
	3. ID- intradermal (within the layers of skin)
	4. IM- intramuscular (into the muscle)
	5. IN-intranasal (into the nasal cavity)
	6. IO- intraosesous (into the bone)
	7. IP- intraperitoneal (into the peritoneum or lining of the abdomen)
	8. IT- intratracheal (into the trachea or windpipe)
	9. IV- intravenous (into the vein)
	10. PO- by mouth or orally
	11. SQ or SUB-Q- subcutaneous (under the skin)
8. Association Abbreviations
	1. AAHA- American Animal Hospital Association
	2. AVMA- American Veterinary Medical Association
	3. NAVTA- National Association of Veterinary Technicians in America
	4. TVMA- Texas Veterinary Medical Association
	5. OFA- Orthopedic Foundation of America

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| **COURSE:**  | Veterinary Assisting | **UNIT A** | Veterinary Practice Management/Client Relations |
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| **Essential Standard:** | 1.00 | 15% | C4 | Analyze proper usage of veterinary practice management procedures |
| **Objective**:  | 1.01 | 9% | C2 | Understand the proper veterinary terminology to accurately describe and record medical conditions |
| **1.01 Activities List** |  |  |  |  |

* + 1. Medical Terminology Dice Activity: Building Blocks of Words
		2. Medical Abbreviations Matching Cards
		3. Watch for review or as a preview and have students highlight terms that were similar to unpacked content <http://www.youtube.com/watch?v=3fiEszFPRE8&playnext=1&list=PL2D84AF760B66CFFC&feature=results_main>
		4. Medical Terminology Assessment: Use Instructor Resource to Accompany to form an assessment