



### Academy of Veterinary Nutrition Technicians Advanced Knowledge List

All qualified candidates will have demonstrated advanced veterinary technician nutrition knowledge. All VTS (Nutrition) candidates shall demonstrate advanced knowledge and expertise in the area of veterinary nutrition.

Applicant's Name \_\_\_\_\_

The applicant is required to demonstrate advanced knowledge of veterinary nutrition. The AVNT recommends utilizing the attached list as a guide, but acknowledges this list may not be all inclusive.

#### KNOWLEDGE LIST:

<u>1. Advanced Knowledge List</u>	<u>Signature</u>	<u>Date</u>
2. Identify 6 classes of nutrients in mammals		
3. Kcal amts for each class of nutrients		
4. Essential proteins for dogs and cats		
5. Non-essential proteins for dogs and cats		
6. Mineral functions and effects of excesses and deficiencies		
7. Vitamin functions and effects of excesses and deficiencies		
8. Antioxidant functions and identification		
9. Understand protein digestion in dogs and cats		
10. Understand fat digestion in dogs and cats		
11. Understand carbohydrate digestion in dogs and cats		
12. Estimate energy requirements for dogs and cats		
13. Calculate feeding amount based on energy		

requirements		
14. Who is AAFCO		
15. How can AAFCO certification be obtained?		
16. What are feeding trials? What are the requirements?		
17. Know how to read pet food labels		
18. What are the AAFCO food label guidelines?		
19. Key nutritional factors for an omnivore		
20. Key nutritional factors for a carnivore		
21. Key nutritional factors for an herbivore		
22. Key nutritional factors unique to cats		
23. Key nutritional factors unique to equines		
24. Key nutritional factors unique to avian		
25. Key nutritional needs during reproduction for cats and dogs		
26. Key nutritional needs during growth for cats and dogs		
27. Key nutritional needs for adult cats and dogs		
28. Key nutritional needs for senior cats and dogs		
29. Key nutritional needs for weight loss in cats and dogs		
30. Key nutritional needs for weight gain in dogs and cats		
31. Key nutritional factors for renal disease in dogs and cats		
32. Key nutritional factors for diabetic dogs and cats		
33. Key nutritional factors for cancer in dogs and		
34. Key nutritional factors for adverse food reactions in dogs and cats		
35. Key nutritional factors for osteoarthritis in dogs and cats		

36. Key nutritional factors for urolithiasis/ FLUTD in dogs and cats		
37. Key nutritional factors for gastritis in dogs and cats		
38. Key nutritional factors for intestinal disease in dogs and cats		
39. Key nutritional factors for constipation in dogs and cats		
40. Key nutritional factors for cardiac disease in dogs and cats		
41. Key nutritional factors for hepatic disease in dogs and cats		
42. Key nutritional factors for pancreatitis in dogs and cats		
43. Key nutritional factors for megaesophagus in		
44. Key nutritional factors for esophageal strictures in dogs and cats		
45. AAFCO official feed definitions		
46. United States FDA responsibilities		
47. What is digestibility?		
48. How is digestibility determined?		
49. What are “product families”		
50. What are “lead products”		
51. Carbohydrate classes and effects: insoluble, moderately soluble, soluble		
52. Coax feeding techniques		
53. Signs of food aversions		
54. Signs of nausea related to feeding		
55. Assisted feeding techniques, pros and cons for each technique		
56. Appropriate food for different assisted feeding techniques		
57. What is TPN?		
58. What is PPN?		

59. Indications for use of TPN		
60. Indications for use of PPN		
61. Complications associated with TPN		
62. Complications associated with PPN		
63. What is Refeeding syndrome? Avoid, recognize, treatment		
64. Non-veterinary treats and health associated problems (chocolate, onions,		
65. Assess hospitalized/ outpatient animals for nutritional risk status		
66. Evaluate homemade diets for potential risks		
67. Be familiar with methods used to access nutritional information on OTC and prescription diets		
68. Understand how nutrition can affect Acid-base balance		
69. Recognize physical and laboratory signs of nutritional deficiencies and		
70. Able to critically evaluate scientific literature and advertising claims regarding nutrients and		
71. Benefits/detriments to homemade diets in dogs and cats		
72. Benefits/ detriments to vegetarian diets in dogs and cats		
73. Benefits/ detriments to vegan diets in dogs and cats		
74. Benefits/ detriments to raw food diets in dogs and cats		
75. Understand anatomy and physiology for GI tract in dogs and cats		

Please print the names of all persons who have signed this form attesting to your mastery of advanced nutrition knowledge.

Name\_\_\_\_\_ Credentials\_\_\_\_\_ Date\_\_\_\_\_

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By signing below, I the AVNT applicant, swear that the information and signatures on this document are not forged and that the information above is true and ethical.

(Applicant's Signature) (Date) \_\_\_\_\_

(Please print your name)\_\_\_\_\_