

**NM** Public Education Department

# VETERINARY SCIENCE

END-OF-COURSE EXAM | GRADE 9-12 | YEAR 17-18

ASSESSMENT BLUEPRINT

# Purpose Statement

## Veterinary Science

The Veterinary Science End-of-Course Exam is designed to measure student proficiency of the standards and performance elements aligned to the Common Career Technical Core Standards ([https://cte.careertech.org/sites/default/files/CCTC\\_Standards\\_Formatted\\_2014.pdf](https://cte.careertech.org/sites/default/files/CCTC_Standards_Formatted_2014.pdf)). This course-level exam is provided to all students who have completed Veterinary Science.

**This exam can be given for the following STARS course code:**

0164 - Veterinary Science

Intended as a final exam for the course, this is a summative exam covering a wide range of content, skills, and applications. Scores are reported to the teacher, school, district, and state levels for the purposes of student grades, curriculum review, and NMTeach summative reports.

### **New Mexico State University College of Agriculture, Consumer and Environmental Sciences**

This blueprint was developed and piloted in 2016 by the New Mexico State University's (NMSU) Secondary Agriculture Education Office (<http://aces.nmsu.edu/>) in partnership with New Mexico agriculture educators. NMSU uses test items with consent from MYCaert, Inc. (<http://www.mycart.com>). MyCaert has given copyright permissions to the New Mexico Public Education Department (NMPED).

### **Sample Questions**

The NMPED has released sample items (prior test exam questions in the test bank) for each performance element. Due to a limited item bank, only five, EOC specific, sample questions have been provided on the blueprint. The depth of knowledge (DOK) level has also been identified for each sample question.

## Blueprint Table—Veterinary Science

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENTS
<b>Animal Systems</b>	<b>AG-ANI.1</b>	<p><b>Performance Element:</b> Analyze historic and current trends impacting the animal systems industry.</p> <p><b>Sample Question:</b> How would you explain animal rights?                      A. the right to believe in “free range” animals                      B. the belief that animals have the right to life*                      C. the belief that animals should not be eaten                      D. the belief that animals have adequate growth space                      DOK 1</p>
	<b>AG-ANI.2</b>	<p><b>Performance Element:</b> Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.</p> <p><b>Sample Question:</b> What is the name of the first milk produced following birth?                      A. serum                      B. supplemental                      C. colostrum *                      D. homogenized                      DOK 1</p>
	<b>AG-ANI.3</b>	<p><b>Performance Element:</b> Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.</p>
	<b>AG-ANI.4</b>	<p><b>Performance Element:</b> Apply principles of animal reproduction to achieve desired outcomes for performance, development</p>

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENTS
		and/or economic production.
	<b>AG-ANI.6</b>	<p><b>Performance Element:</b> Classify, evaluate and select animals based on anatomical and physiological characteristics.</p> <p><b>Sample Question:</b> What type of muscle does the heart classify as?</p> <ul style="list-style-type: none"> <li>A. skeletal muscle</li> <li>B. cardiac muscle *</li> <li>C. smooth muscle</li> <li>D. minor muscle</li> </ul> <p>DOK 1</p>
	<b>AG-ANI.7</b>	<p><b>Performance Element:</b> Apply principles of effective animal health care.</p> <p><b>Sample Questions:</b></p> <ol style="list-style-type: none"> <li>1. What is the imaging process that produces computerized 3D images of a patient's body? <ul style="list-style-type: none"> <li>A. ultra sound</li> <li>B. X-ray grid</li> <li>C. CAT scan *</li> <li>D. radiology</li> </ul> <p>DOK 1</p> </li> <li>2. Which of the following <b>best</b> describes dystocia? <ul style="list-style-type: none"> <li>A. difficult birth resulting from a small birth canal in young females *</li> <li>B. contraction of the uterine walls prior to birthing</li> <li>C. the ability to generate an overabundance of progesterone</li> <li>D. the term limit for pregnant farm animals</li> </ul> <p>DOK 1</p> </li> </ol>

Veterinary Science EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Animal Systems	AG-ANI.1		6		6
	AG-ANI.2		6		6
	AG-ANI.3			3	3
	AG-ANI.4	1	4		5
	AG-ANI.6		6	1	7
	AG-ANI.7	1	27		28
Total		2	49	4	55