

NM Public Education Department

SCIENCE OF SMALL ANIMALS

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

ASSESSMENT BLUEPRINT

Purpose Statement

Science of Small Animals

The Science of Small Animals 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). This course-level exam is provided to all students who have completed Science of Small Animals.

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

0162 - Science of Small Animals

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—Science of Small Animals

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
Animal Systems	AG-ANI.1	<p>Performance Element: Analyze historic and current trends impacting the animal systems industry.</p> <p>Sample Question: Why are donkeys commonly used to guard sheep and goats?</p> <ul style="list-style-type: none"> A. their ability to recognize predators B. instinctive dislike of dogs * C. aggressive temperament D. flocking, herding instinct <p>DOK 1</p>
	AG-ANI.2	<p>Performance Element: Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.</p>
	AG-ANI.3	<p>Performance Element: Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.</p> <p>Sample Question: Which of the following positive reinforcement methods would be used to house-break a dog?</p> <ul style="list-style-type: none"> A. rub his nose in the feces when he has an accident in the house B. take him outside and wait until he used the bathroom and praise him * C. work with him when convenient D. put a pad down and hope he uses it <p>DOK 2</p>
	AG-ANI.4	<p>Performance Element: Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.</p> <p>Sample Question:</p>

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
		<p>Which two hormones does a female mammal produces within the ovaries?</p> <p>A. progesterone and testosterone B. estrogen and testosterone C. estrogen and progesterone * D. testosterone and progesterone</p> <p>DOK 1</p>
	AG-ANI.6	<p>Performance Element: Classify, evaluate and select animals based on anatomical and physiological characteristics.</p> <p>Sample Question: A hatchery in Glenwood, New Mexico produces fry. What is the hatchery producing?</p> <p>A. newly hatched snails B. newly hatched birds C. newly hatched fish * D. newly grown aquatic plants</p> <p>DOK 1</p>
	AG-ANI.7	<p>Performance Element: Apply principles of effective animal health care.</p> <p>Sample Question: Identify which career promotes animal health by providing care for sick and injured animals as well as working to prevent illness?</p> <p>A. farm manager B. veterinarian * C. agricultural engineer D. wildlife conservation officer</p> <p>DOK 1</p>
Agribusiness Systems	AG-BIZ.1	<p>Performance Element: Apply management planning principles in AFNR businesses.</p>

Science of Small Animals EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Animal Systems	AG-ANI.1	1	10	4	15
	AG-ANI.2		3		3
	AG-ANI.3	1		6	7
	AG-ANI.4	1	10		11
	AG-ANI.6	1	5	1	7
	AG-ANI.7	1	9		10
Agribusiness Systems	AG-BIZ.1		2		2
Total		5	39	11	55