NM Public Education Department

SCIENCE OF LARGE AGRICULTURAL ANIMALS

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

ASSESSMENT BLUEPRINT

Purpose Statement

Science of Large Agriculture Animals

The Science of Large Agriculture 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 Large Agriculture Animals.

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

 0161 - Science of Large Agriculture 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.mycaert.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 Large Agriculture Animals

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
Animal Systems	**AG-ANI.1**	**Performance Element:** Analyze historic and current trends impacting the animal systems industry. **Sample Question:** What are buffalo producers who own several hundred animals and earn income from selling meat and breeding stock classified as? A. large ranches * B. hobby operation C. medium-size ranches D. small producers DOK 1
	AG-ANI.2	**Performance Element:** Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.
	AG-ANI.3	**Performance Element:** Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production. **Sample Question:** What is the difference between a ration and a balanced ration? A. They are the same thing in large meat animals slaughtered for human consumption. B. A ration is the amount of feed fed while a balanced ration meets an animal's need. * C. A ration is what is fed while a balanced ration shows forage vs. protein level. D. A ration is what animal eats while a balanced ration is human consumption. DOK 2
	AG-ANI.4	**Performance Element:**

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
		Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production. **Sample Question:** Which of the following is a disadvantage of using artificial insemination? A. It increases the use of outstanding sires. B. It requires high initial investment. * C. It reduces the costs of sires. D. It Increases the number of different sires in a herd. DOK 2
	AG-ANI.6	**Performance Element:** Classify, evaluate and select animals based on anatomical and physiological characteristics.
	AG-ANI.7	**Performance Element:** Apply principles of effective animal health care. **Sample Question:** Which area is a subcutaneous vaccination injected? A. under the skin * B. in the muscle C. in the vein D. between layers of skin DOK 1
Agriculture, Food & Natural Resources	**AG.1**	**Performance Element:** Analyze how issues, trends, technologies and public policies impact systems in the Agriculture, Food & Natural Resources Career Cluster.
	AG.5	**Performance Element:** Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food & Natural Resources Career Pathways.

REPORTING CATEGORY	STANDARD	PERFORMANCE ELEMENT
Agribusiness Systems	**AG-BIZ.1**	**Performance Element:** Apply management planning principles in AFNR businesses. **Sample Question:** Which of the following terms is indicated by the description below? A producer will supply fewer goods or services as price decreases and more when price increases. A. Law of demand B. Law of supply * C. Law of prices D. Law of production DOK 1

Science of Large Agriculture Animals EoC Reporting Category Alignment Framework					
Reporting Category	Standard	DOK (Count by DOK)			Grand Total
		1	2	3	
Animal Systems	AG-ANI.1		7		7
	AG-ANI.2		4		4
	AG-ANI.3		2	8	10
	AG-ANI.4		7		7
	AG-ANI.6		3		3
	AG-ANI.7		8	2	10
Agriculture, Food & Natural Resources	AG.1	2		4	6
	AG.5		2		2
Agribusiness Systems	AG-BIZ.1	2	2	2	6
Total		4	35	16	55