

# Livestock Skillathon Contest

## I. Eligibility

- A. Read General Rules
- B. Two 3 or 4 member teams per county in each age group or maximum of eight (8) participants in each age group

## II. Purpose/Goal

The 4-H Livestock Skillathon contest will provide opportunities for youth enrolled in 4-H to gain and develop production livestock skills, and life skills, by engaging them in a pleasant, yet competitive environment which focuses on the range of their knowledge and comprehension of animal science and livestock management practices.

## III. Procedures

### **NOVICE**

- A. *Livestock Equipment Identification:* (100 possible points) Identify from the photographs or actual equipment, the proper name for twenty five pieces of equipment used in livestock production.
  - B. *Livestock Breed Identification:* (100 possible points) Identify from the photographs or pictures, twenty livestock (beef, swine, sheep, and goat) breeds.
  - C. *Feedstuff Identification:* (50 possible points) Identify ten feedstuffs by the proper name.
  - D. *Meat Identification:* (50 possible points) Identify ten cuts of meat by specie and name of retail cut
  - E. *Meat Judging Class:* (50 possible points) Rank a class of four similar retail cuts of meat.
  - F. *Feed Tag Knowledge Exercise:* (50 possible points) Demonstrate ability to read and interpret information on a feed tag and answer questions regarding management decisions.
- (Possible individual points for NOVICE: 450)

### **JUNIOR**

- A. *Livestock Equipment Identification:* (100 possible points) Identify the proper name for twenty five pieces of equipment used in livestock production
  - B. *Livestock Breed Identification:* (100 possible points) Identify from the photographs or pictures, twenty livestock (beef, swine, sheep, and goat) breeds with country of origin.
  - C. *Feedstuff Identification:* (50 possible points) Identify ten feedstuffs by the proper name and correct nutrient group.
  - D. *Meat Identification:* (50 possible points) Identify ten cuts of meat by specie and name of retail cut
  - E. *Meat Judging Class:* (50 possible points) Rank a class of four similar retail cuts of meat.
  - F. *Quality Assurance Exercise:* (50 possible points) Demonstrate how to read a medicine label, calculate withdrawal times, complete a treatment record, and make responsible management decisions regarding quality assurance.
  - G. *Feed Tag Knowledge Exercise:* (50 possible points) Demonstrate ability to read and interpret information on a feed tag and answer questions regarding management decisions.
- (Possible individual points for JUNIOR: 500)

#### **IV. General Rules**

This contest will be held in an open format so participants can participate at their convenience, but the contest will be scored for awards. It is recommended that teams go through the contest together, however it is not required. Each county is allowed to bring two novice and two junior teams to district contest. A junior team may be mixed ages, novice and junior. A novice may be novice age contestants only. The county team score will be the sum of the three highest scores. If a county does not have a team, they may bring individuals in each category. Individuals can compete only for high point individual. A team must consist of three or four members. Ties will be broken by breed ID, Livestock Equipment, feed ID, meat judging class & Meat ID for Juniors in this order.

Refer to the State 4-H Webpage for additional information on the contest and score card examples. Teams consist of three or four members. In teams in which there are four members, all will compete; but the member receiving the lowest overall score will be automatically declared the alternate. The scores of the alternate will not be included in any of the team totals, but will be considered in making all individual awards. Teams consisting of three members will have no alternate, and all members' scores will count in determining individual and team awards.

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

**LIVESTOCK SKILL-A-THON  
EQUIPMENT IDENTIFICATION**

**Place the letter of the correct tool name in the blank to the right of the number that corresponds to the tool**

- |     |           |                                   |
|-----|-----------|-----------------------------------|
| 1.  | A.        | Bailing Gun                       |
| 2.  | B.        | Beef Halter                       |
| 3.  | C.        | Branding Iron                     |
| 4.  | D.        | Dehorner                          |
| 5.  | E.        | Calf Puller                       |
| 6.  | F.        | Curry Comb                        |
| 7.  | G.        | Disposable Syringe                |
| 8.  | H.        | Drench gun                        |
| 9.  | I.        | Ear Natcher                       |
| 10. | J.        | Ear Tag Pliers                    |
| 11. | K.        | Elastrator                        |
| 12. | L.        | Emasculator                       |
| 13. | M.        | Heat Detection Patch              |
| 14. | N.        | Hog Snare                         |
| 15. | O.        | Hoof Knife                        |
| 16. | P.        | Implant gun                       |
| 17. | Q.        | Lamb Tube Feeder                  |
| 18. | R.        | Nipple Waterer                    |
| 19. | S.        | Nose Lead                         |
| 20. | T.        | OB Chain                          |
|     | U.        | Pistol Grip Syringe               |
|     | <u>V.</u> | Ram Marking Harness               |
|     | W.        | Rumen Magnet                      |
|     | X.        | Scalpel                           |
|     | Y.        | Scotch Comb                       |
|     | Z.        | Sheep Shears                      |
|     | AA.       | Shear's Screwdriver               |
|     | BB.       | Straw Artificial Insemination Gun |
|     | CC.       | Swine Breeding Spirette           |
|     | DD.       | Tattoo Pliers                     |
|     | EE.       | Transfer Needle                   |
- Juniors Only
- |     |  |  |
|-----|--|--|
| 21. |  |  |
| 22. |  |  |
| 23. |  |  |
| 24. |  |  |
| 25. |  |  |

**LIVESTOCK SKILL-A-THON**

**BREED IDENTIFICATION**

Place the letter of the correct breed name in the blank to the right of the number that corresponds to the picture.

---

**CATTLE**

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_

- A. Angus
- B. Brahman
- C. Brangus
- D. Braunvieh
- E. Chianina
- F. Gelbvieh
- G. Hereford
- H. Limousin
- I. Maine-Anjou
- J. Salers
- K. Santa Gertrudis
- L. Shorthorn
- M. Simmental
- N. Red Angus
- O. Highland
- P. Texas Longhorn
- Q. Wagyu
- R. Charolais
- S. Polled Hereford

**SWINE**

- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

- T. Berkshire
- U. Chester White
- V. Duroc
- W. Hampshire
- X. Hereford
- Y. Landrace
- Z. Pietrain
- AA. Spotted
- BB. Yorkshire

**SHEEP**

- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_

- CC. Cheviot
- DD. Columbia
- EE. Corriedale
- FF. Debouillet
- GG. Barbado
- HH. Merino
- II. Dorset
- JJ. Dorper
- KK. Finnsheep
- LL. Hampshire -
- MM. Rambouillet
- NN. Southdown
- OO. Suffolk

**GOATS**

- 16. \_\_\_\_\_
- 17. \_\_\_\_\_
- 18. \_\_\_\_\_
- 19. \_\_\_\_\_
- 20. \_\_\_\_\_

- PP. Boer
- QQ. Kiko
- RR. Angora
- SS. Pigmy
- TT. Nubian
- UU. Lamancha
- W. Spanish

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

LIVESTOCK SKILL-A-THON  
LIVESTOCK FEEDS

Place the letter of the correct feed name in the blank to the right of the number that corresponds to the feed. Place the correct nutrient on the second space for each feed. You must indicate if the feed is an energy, protein or mineral.

	Feed Name	Feed Type JUNIORS ONLY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

FEED NAME

- A. Cracked Corn
- B. Rolled Oats
- C. Cottonseed Hulls
- D. Rolled Milo
- E. Whole Milo
- F. Beet Pulp
- G. Whole Oats
- H. Whole Soybeans
- I. Alfalfa Pellet
- J. Whole Wheat
- K. Whole Cottonseed
- L. Whole Sunflower
- M. Whole Corn
- N. White Salt
- O. Blood Meal
- P. Fish Meal
- Q. Dried Molasses
- R. Rolled corn
- S. Rolled Barley
- T. Trace Mineral
- U. Soybean Meal
- V. Buckwheat

FEED TYPE

- EE- Energy
- PP- Protein
- MM- Mineral

NAME: \_\_\_\_\_

COUNTY: \_\_\_\_\_

**LIVESTOCK SKILL-A-THON  
Meats Identification**

Item	Species	Retail Name	Species	Retail Name	
1.			<i>1. Beef</i>	1. Top Blade Steak (Flat Iron)	
2.				2. Flank Steak	
3.				3. Porterhouse Steak	
4.				4. T-Bone Steak	
5.			<i>2. Pork</i>	5. Short Ribs	
6.				6. Short Ribs	
7.				7. Ribeye Steak	
8.				8. Bottom Round Roast	
9.				9. Eye Round Steak	
10.				10. Top Round Steak	
				11. Cube Steak	
				12. Beef for Stew	
				13. Ground Beef	
				14. Heart	
				15. Kidney	
				16. Liver	
				17. Oxtail	
				18. Tongue	
				<i>3. Lamb</i>	19. Pork Fresh Ham Center slice
					20. Pork Fresh Ham Shank Portion
					21. Blade Chops
					22. Blade Roast
			23. Center Rib Roast		
			24. Country Style Ribs		
			25. Loin Chops		
			26. Rib Chops		
			27. Butterflied Chop boneless		
			28. Arm Roast		
			29. Blade Boston Roast		
			30. Blade Steak		
			31. Slab Bacon		
			32. Sliced Bacon		
			33. Pork Spareribs		
			34. Smoked Jowl		
			35. Heart		
			36. Kidney		
			37. Liver		
			38. Tongue		
			<i>3. Lamb</i>	39. Loin Chops	
				40. Rib Chops	
				41. Rib Roast	
				42. Arm Chops	
				43. Blade Chops	
				44. Center Slice	
				45. Heart	
				46. Kidney	
				47. Liver	
				48. Tongue	

### Retail Meat ID Master List

**Important Note:** The following material is provided as a study guide. Juniors will identify ten (10) cuts as to Species, Primal, Retail, and cookery.

SPECIES	PRIMAL	RETAIL	COOKERY
Beef	Chuck	Top Blade Steak (Flat Iron)	Dry
Beef	Flank	Flank Steak	Dry/Moist
Beef	Loin	Porterhouse Steak	Dry
Beef	Loin	T-Bone Steak	Dry
Beef	Plate	Short Ribs	Moist
Beef	Rib	Short Ribs	Dry
Beef	Rib	Ribeye Steak	Dry
Beef	Round	Bottom Round Roast	Dry/Moist
Beef	Round	Eye Round Steak	Dry/Moist
Beef	Round	Top Round Steak	Dry
Beef	Various	Cube Steak	Dry/Moist
Beef	Various	Beef for Stew	Moist
Beef	Various	Ground Beef	Dry
Beef	Variety	Heart	Dry/Moist
Beef	Variety	Kidney	Dry/Moist
Beef	Variety	Liver	Dry/Moist
Beef	Variety	Oxtail	Moist
Beef	Variety	Tongue	Dry/Moist
Pork	Ham/Leg	Pork Fresh Ham Center slice	Dry/Moist
Pork	Ham/Leg	Pork Fresh Ham Shank Portion	Dry/Moist
Pork	Loin	Blade Chops	Dry/Moist
Pork	Loin	Blade Roast	Dry/Moist
Pork	Loin	Center Rib Roast	Dry
Pork	Loin	Country Style Ribs	Dry/Moist
Pork	Loin	Loin Chops	Dry
Pork	Loin	Rib Chops	Dry
Pork	Loin	Butterflied Chop boneless	Dry
Pork	Shoulder	Arm Roast	Dry/Moist
Pork	Shoulder	Blade Boston Roast	Dry/Moist
Pork	Shoulder	Blade Steak	Dry/Moist
Pork	Side/Belly	Slab Bacon	Dry
Pork	Side/Belly	Sliced Bacon	Dry
Pork	Spareribs	Pork Spareribs	Dry/Moist
Pork	Variety	Smoked Jowl	Dry/Moist
Pork	Variety	Heart	Dry/Moist
Pork	Variety	Kidney	Dry/Moist
Pork	Variety	Liver	Dry/Moist
Pork	Variety	Tongue	Dry/Moist
Lamb	Loin	Loin Chops	Dry
Lamb	Rib	Rib Chops	Dry
Lamb	Rib	Rib Roast	Dry
Lamb	Shoulder	Arm Chops	Dry/Moist
Lamb	Shoulder	Blade Chops	Dry/Moist
Lamb	Leg	Center Slice	Dry
Lamb	Variety	Heart	Dry/Moist
Lamb	Variety	Kidney	Dry/Moist
Lamb	Variety	Liver	Dry/Moist
Lamb	Variety	Tongue	Dry/Moist

LIVESTOCK SKILL-A-THON  
Meat Judging Class

NEW MEXICO STATE UNIVERSITY  
COOPERATIVE EXTENSION SERVICE

	<b>1234</b>	
	<b>1 243</b>	
Pla.'c.ing Card;	<b>132 ◀</b>	
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Contestant No,	<b>2413</b>	
	<b>2431</b>	
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	<b>31 ◀2</b>	
Reasons Score	<b>3214</b>	
	<b>3241</b>	
Total Score _ _ _	<b>3 412</b>	---
	<b>3421</b>	
	<b>4123</b>	
	<b>4132</b>	
	<b>4213</b>	---
	<b>4231</b>	
	<b>4312</b>	-
	<b>4321</b>	



LIVESTOCK SKILL-A-THON

Beef Quality Assurance (

EXAMPLE

Feed Label

MG Calf Builder - Gen 2

For Beef Cattle on Pasture

		GUARANTEED ANALYSIS			
Crude Protein	min	12.00%	Sau	min	0.20%
Crude Fat	min	3.00%	Salt	max	0.70%
Crude Fiber	max	12.90%	Potassium	min	0.50%
Calcium	min	1.00%	Copper	ppm	50
Calcium	max	1.50%	Selenium	min	0.45ppm
Phosphorus	min	0.50%	Vitamin A	min	5,000 IU/lb

List of Ingredients

Grain Products, Roughage Products, Processed Grain By-Products, Protein Products, Molasses Products, Calcium Carbonate, Sodium Chloride, Monocalcium Phosphate, Hemicellulose Extract, Hydroxyethyl Cellulose, Inositol, Magnesium-Mica, Manganese Oxide, Diatomaceous Earth (now agent), Copper Sulfate, Zinc Sulfate, Zinc Oxide, Manganese Sulfate, Sodium Selenite, Cobalt Carbonate, Lactic Acid, Origanum Oil, Thymol, Citric Acid, Vitamin E Supplement, Mineral Oil, Vitamin A Supplement, Vitamin D3 Supplement, Ethyl Vanillin, Flavor Extract, Ethyl Vanillin Dihydrochloride, Dried Seaweed Meal (Fucaceae, Bangiaceae, Ulvaceae), Chicory Root, Hot Peppercorns, Cloves, Anise Oil, Saccharin Sodium, Natural Flavor.

Feeding Directions

Feed at the rate of 1 1/2 to 2% of body weight per head per day to beef cattle on pasture. Provide plenty of fresh, clean water at all times. CAUTION: Follow label directions. The addition to feed of higher levels of this product containing selenium is not recommended.

**WARNING:** This product, which contains added copper, should not be fed to sheep or related species that have a low tolerance to copper.



Manufactured by:  
**M-G, Inc.**  
 PO Box 697 • Weimar TX 78962  
**1-800-1160-6581**



NET WEIGHT: 50 lb (22.7 kg) OR BULK

1. What is the guaranteed maximum amount of calcium and the guaranteed minimum amount of salt included in this product?

Calcium \_\_\_\_\_ Salt \_\_\_\_\_

2. This product is used for feeding what type of animal?

3. Does this product contain more Hemicellulose Extract or more Sodium Selenite?

4. How much would you feed per day if you were feeding 60 head each weighing 450 lbs if you fed at the maximum percent of body weight?

5. Can this product also be fed to sheep? Why or why not?

LIVESTOCK SKILL-A-THON

Beef Quality Assurance: Medication Label (Juniors Only)

# EXAMPLE

**Naxcel@gran1**  
 (c) ofur sodium sterile powder  
 Scerlic Powder  
 For intramuscular and subcutaneous injection in cattle only.  
 For intramuscular injection in swine, sheep, goats, and horses.  
 For use in day-old chickens and day-old poultry.  
 Used in lactating dairy cattle, sheep, and goats.  
 Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.  
 NADA #140-338, Approved by FDA  
 1465000

Dose	1.0 mg/lb	0.1 mL/5 lb
Day-old Chickens	0.08 - 0.2 mg/chick	1 mL/250 - 625 chicks
Day-old Poultry	0.17 - 0.5 mg/poult	1 mL/100 - 288 poult
Sheep/Goats	0.5 - 1.0 mg/lb	1 mL/50 - 100 lb
Cattle	0.5 - 1.0 mg/lb	1 mL/50 - 100 lb
Swine	1.36 - 2.27 mg/lb	1 mL/22 - 37 lb
Horses	1.0 - 2.0 mg/lb	2 - 4 mL/100 lb

- What is the route of administration in cattle only?
  - Subcutaneous injection only
  - Intramuscular injection only
  - Intramuscular and Subcutaneous injection only
  - Intradermal injection only
- How frequently may this product be administered?
- What is the dosage for a 550 lb calf in ml?
- Name the active ingredient(s)
- What is the name of this medication?