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.

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. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

Juniors Only

21. _____
22. _____
23. _____
24. _____
25. _____

A. Bailing Gun
B. Beef Halter
C. Branding Iron
D. Dehorner
E. Calf Puller
F. Curry Comb
G. Disposable Syringe
H. Drench gun
I. Ear Notcher
J. Ear Tag Pliers
K. Elastrator
L. Emasculator
M. Heat Detection Patch
N. Hog Snare
O. Hoof Knife
P. Implant gun
Q. Lamb Tube Feeder
R. Nipple Waterer
S. Nose Lead
T. OB Chain
U. Pistol Grip Syringe
V. 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

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

SWINE

6. _____

7. _____

8. _____

9. _____

10. _____

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

SHEEP

11. _____

12. _____

13. _____

14. _____

15. _____

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

GOATS

16. _____

17. _____

18. _____

19. _____

20. _____

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

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

LIVESTOCK SKIL-A-THON

Meat Identification -- Juniors Only

Item	Species	Primal	Retail Name	Cookery
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

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

NEW MEXICO STATE UNIVERSITY
COOPERATIVE EXTENSION SERVICE

Placing Card,
for
4-H Judging
Events

Class _____

Contestant No. ____

Placing Score ____

Reasons Score ____

Total Score ____

1234	
1243	
1324	
1342	
1423	
1432	
2134	
2143	
2314	
2341	
2413	
2431	
3124	
3142	
3214	
3241	
3412	
3421	
4123	
4132	
4213	
4231	
4312	
4321	

EXAMPLE

Feed Label

MG Calf Builder - Gen 2
For Beef Cattle on Pasture

GUARANTEED ANALYSIS					
Crude Protein	min	12.00%	Salt	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	min	30 ppm
Calcium	max	1.50%	Selenium	min	0.45 ppm
Phosphorus	min	0.50%	Vitamin A	min	5,000 IU/lb

List of Ingredients

Grain Products, Roughage Products, Processed Grain By-Products, Plant Protein Products, Molasses Products, Calcium Carbonate, Sodium Chloride, Monocalcium Phosphate, Hemicellulose Extract, Hydrated sodium calcium aluminosilicate, Magnesium-Mica, Manganous Oxide, Diatomaceous Earth (flow agent), Copper Sulfate, Zinc Sulfate, Zinc Oxide, Manganese Sulfate, Sodium Selenite, Cobalt Carbonate, Lactic Acid, Origanum Oil, Thyme White Oil, Cinnamaldehyde, Vitamin E Supplement, Mineral Oil, Vitamin A Supplement, Vitamin D3 Supplement, Fenugreek Flavor Extract, Ethylenediamine Dihydriodide, Dried Seaweed Meal (Fucaceae, Bangiaceae, Ulvaceae), Chicory Root, Red Pepper, Cloves, Anise Oil, Saccharin Sodium, Natural Flavor.

Feeding Directions

Feed at the rate of 1½ 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 permitted.

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
1-800-460-8581

NET WEIGHT: 50 lb. (22.7 kg) OR BULK

1. What is the guaranteed max amount of calcium and the guaranteed min 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 450lbs if you fed at the max percent of body weight?

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

Beef Quality Assurance: Medication Label (Juniors Only)

EXAMPLE

Naxcel® 1 gram
(ceftiofur sodium sterile powder)
Sterile Powder
For intramuscular and subcutaneous injection in cattle only.
For intramuscular injection in swine, sheep, goats, and horses.
For subcutaneous injection only in dogs, day-old chickens, and day-old turkey poults. May Be 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

LOT/EXP 81404491222

Dogs	1.0 mg/lb	0.1 mL/5 lb
Day-old Chicks	0.08 – 0.2 mg/chick	1 mL/250 – 625 chicks
Day-old Poults	0.17 – 0.5 mg/poult	1 mL/100 – 294 poults
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

For Once Daily Injection – See Package Insert
Reconstitute with 20 mL Sterile Water for Injection. Shake thoroughly prior to use. Each mL of the resulting solution contains ceftiofur sodium equivalent to 50 mg ceftiofur.
RESIDUE WARNINGS: Pre-slaughter meat withdrawals: Cattle and Swine: 4 days after last treatment. Sheep, goats, day-old chickens and turkey poults: 0 hrs. Milk discard time: 0 hrs.
WARNING: Not for human use. Keep out of reach of children. To avoid possible allergic reactions, users are advised to avoid direct contact of this product with the skin or mucous membranes (see package insert). Store unreconstituted product at controlled room temperature 20° to 25° C (68° to 77° F) [see USP]. Protect from light. See package insert for complete product information and storage conditions. Each vial contains: ceftiofur sodium equivalent to 1 gram ceftiofur.

Distributed by:
Pharmacia & Upjohn Co.
Division of Pfizer Inc, NY, NY 10017

Pfizer

1. What is the route of administration in cattle only?

    a. Subcutaneous injection only

    b. Intramuscular injection only

    c. Intramuscular and Subcutaneous injection only

    d. Intradermal injection only

2. How frequently may this product be administered?

3. What is the dosage for a 550lb calf in mL?

4. Name the active ingredient(s)

5. What is the name of this medication?