Colorado State University

Extension

MA1568 Member's Manual





Horseless Horse—Unit 4
Brushing up on Horses

Project Goals and General Information

This project provides an opportunity for non-horse owning youth to acquire knowledge necessary to participate in horse-related 4-H events. By offering a unique curriculum that does not rely on live horses to be used as a tool for learning, more youth will have the opportunity to learn about these animals.

This project is intended to teach 4-H youth basic knowledge of horses, equipment and safety that do not have access to a horse. All of the questions in this project record should be answered as completely as possible. The information needed can be found in the Colorado 4-H Horse Manual. This publication is available at your county extension office. All the information used in the horseless horse units has been taken from the 4-H Horse Project Members Manual.

This 4-H project record will be scored out of 100 points based on neatness, completeness, accuracy and activities completed (meetings attended, demonstrations, and special events included).

The leader's signature should be obtained when the book is completed and ready to be turned-in for judging. Books will be graded by a qualified person and scored to a general standard.

Dr. Dennis Lamm, Professor, Extension Education Dr. Sue Cummings, Extension Specialist Alexa Lamm, 4-H Coordinator, Douglas County Jonathan Vrabec, 4-H Agent, El Paso County Colorado 4-H Horse Advisory Board, 2004

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Colorado State University, U.S. Department of Agriculture and Colorado counties cooperating.

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Leader Information

These pages are designed for the leader, parent, and adult volunteer or older youth working with the 4-H Horseless Horse project. Below you will find an explanation of the Targeting Life Skills Model as well as the Experiential Learning Process and how you can incorporate them in to the unit while teaching horse related subject matter.

Life skills are critical in helping young people become self-directing, productive, and contributing members of society. One of the primary goals of this project book is to help youth gain knowledge about horses. However, it is very important to emphasize the learning of "life skills" as well.

Head, heart, hands, and health are the foundations of 4-H. In the Targeting Life Skills Model (Figure 1), each of these foundations reflect a skill. Each "H" has two general categories of skills. The head is "managing and thinking", the heart is "relating and caring", the hands are "giving and working", and the health is "living and being." The categories are then divided into specific life skills.

This unit incorporates the Targeting Life Skills Model through the subject matter and activities. Youth are expected to use both the 4-H Horse project manual from Colorado and the 4-H Cooperative Curriculum System Horse project booklets to find the answers. Each chapter is focused on a specific life skill listed below:

Digestive Tract – decision making & healthy lifestyle choices
Ration Balancing – decision making & healthy lifestyle choices
Parasites – planning
Reproduction – critical thinking
Showmanship – self responsibility
Advanced Movements – teamwork & accepting differences
Ethics-decision making & critical thinking
Housing and Pasture Management – planning
Equine Management—decision making & record keeping

The Experiential Learning Process (Figure 2) embraces a "learn-by-doing" approach to 4-H and emphasizes exploration and critical thinking. The model includes five steps: experience, share, process, generalize, and apply. Not every step of the process is necessary for every activity and sometimes steps are combined. However, it is important that each lesson embraces the three main processes do, reflect, and apply.

The ration and balancing section is a great example of this process. By balancing a ration for a horse, youth experience the activity directly, this is the "do" portion of the process. Youth are then asked to look at the ration and discuss why it was on a dry matter basis. They must explain why they chose the feeds and exactly what feeds were used to balance the ration. Youth are reflection on the choices they made as part of the process. They then must work through the information by explaining why we balance rations. The balance horse ration is generalized in a way that makes youth realize the benefits of maintaining a balance diet in their own lives. As the leader of your group, it is your job to emphasize life skill learning and this process while teaching youth about horses.

Figure 1 Targeting Life Skills Model

(Iowa State University Extension, 2005)

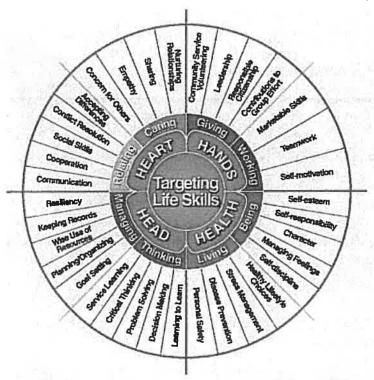


Figure 2 Experiential Learning Process

(University of Arkansas Cooperative Extension Service, 2005)

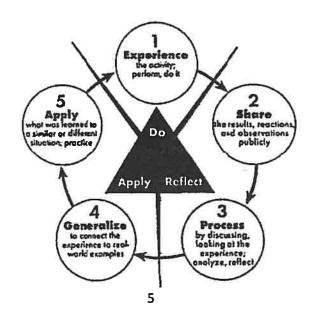
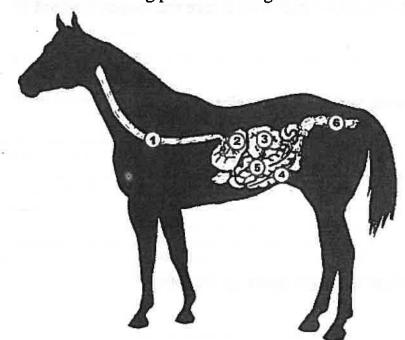


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Digestive Tract

1. Label the following parts of the digestive tract.



1	4	
2	5	
3.	6.	

2. Fill in the table below:

	Horse		Hu	Human		
	Volume (gal)	Length (ft)	Volume (gal)	Length (ft)		
Stomach						
Small Intestine						
Cecum						
Large Colon						
Small Colon						

	What is the length of time required for food to completely pass through the digestive tract?
	In which part of the digestive tract does it take the longest for food to pass?
5.	Describe what a horse would look like if it were choking?
6.	What parts of the digestive tract make up the foregut?
7.	What parts of the digestive tract make up the hindgut?

8.	List four things you should take into consideration when determining a
	horse's diet?
	1
	2
	3
	4
9.	Are these the same things you would take into consideration when
	determining your own diet? Why or Why not?
-	
_	
10.	How does your digestive tract and diet compare to a horses digestive
	•
tı	ract and diet?
11.	Present a poster to your group showing similarities between human and
h	orse digestive tracts.

Ration Balancing

		ken when balancing a	
1			
3			
4		8	
5			
6			
7			
/hy do you calc	culate a ration on a d	dry matter basis?	

4. Using Tables 5, 6, and 7 in your Horse Manual construct a balanced ration for an 8 year old gelding weighing 1,100 lbs., which performs heavy work, and has a body condition score of 6. Show your work.

٥.	What is your calcium to phosphorus ration?
6.	Explain what feed or feeds you used to balance your ration.

Why did you choose the feed or feeds?
Why do we balance rations?
Should people balance what they eat? Why or Why not?
5

		1-1-1-1	
10000111			

Parasites

1	What are parasites?
:= :=	
2=	
-	
	What are two categories of parasites?
	1 2
•	Describe ways that a parasite can enter the horse's body.
Ļ.	What is the most common way a parasite can enter a horse's body?

5.	Describe the symptoms of a horse that has contracted internal			
	parasites.			
6.	Name the three most dangerous internal parasites to horses.			
	1.			
	2			
	3			
7.	How would you remove botfly eggs from a horse?			
8.	What are the best ways to control internal parasites in horses?			
9.	What type of parasite causes a horse to rub its tail?			

10.	Name four external parasites.	
1.		
2.		
4.		
11.	Funguses can be transmitted from horse t	o horse by what?
_		
_		
	Can you get a fungus from your horse?	VEC NO

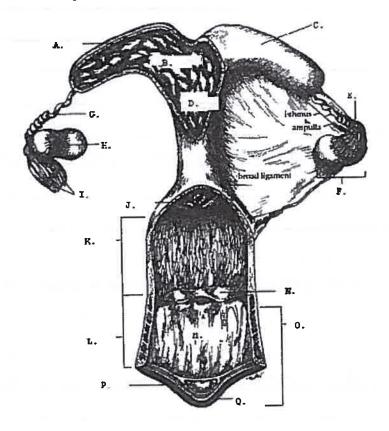
Below, construct an annual deworming plan for a horse.

13.

roughlife that a minument of hefere
your life that a plan is needed before

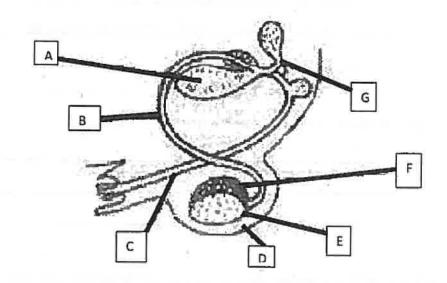
Reproduction

1. Label the parts of the Mare Reproduction Tract.



A	J
В	K
C	L
D	M
E	N
F	O
G	P
н	Q
12	

2. Label the parts of the Stallion Reproductive Tract.



Α.

E.

R

F.____

C.

G.____

D._____

Why are horses the most difficult domestic species to breed?
Explain what artificial insemination means.
Why would a breeder choose to use artificial insemination to
breed a mare compared to natural breeding?

horse. Present this board to your club and ask friends that have horses if their horse has been bred. Ask them if they had a positive or negative experience breeding their horse. Explain your results below.

6. Make a poster board that includes the pros and cons of breeding a

Showmanship

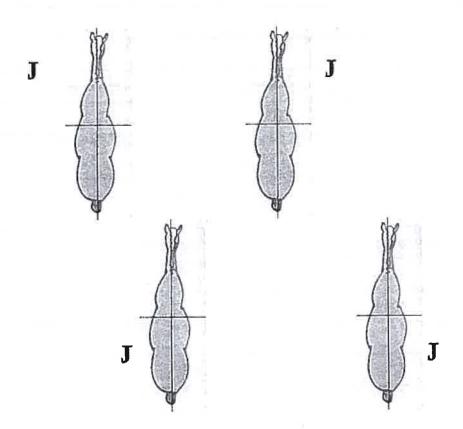
1.	What is showmanship?
2.	What are two things judged in showmanship class?
	1 2
3.	What are the three basic rules when training for showmanship?
	1
	2
	3.

4. Using the picture below, put a star where the safe zones of a horse are and a circle where the danger zones are when handling a horse?



		-
e	-73.50	
		_
5 N20 190		
plain the quarter	system used in showmanship classes	
7		
	y	

7. Place an X where the showman should be in relation to the judge (which is signified by the letter J).



8. When showing your horse, the judge is watching you, so you must be as professional and polished as possible. Give an example of another time you would need to present yourself as a professional?

Advanced Movements

1.	What is a counter canter?
2.	If a horse performs a turn on the forehand to the left, which way do its hindquarters move?
3.	When a horse performs a turn on the hindquarters, which leg remains stationary?
4.	Explain the difference between a side pass and two-tracking.

5.	Why would you want to teach your horse bending exercises, shoulder
	in and haunches in?
6.	By being more flexible, does this help your horse with other tasks?
7.	How can being a flexible person in the way you do and see things
	allow you to be more versatile?

0			
-5-51	 		

Ethics

A person uses their values and beliefs to determine if something is right or wrong. These values and beliefs form ethics.

1. Read the following ethical issues. Fill in the table with pros and cons to each issue.

Issue	Pros	Cons
A lame horse that is buted before a show should not be allowed to show		
	(8)	
Someone who enters a horse show one day late should not be allowed to show		
Someone treating a horse roughly should be reported		
A brother does all the care, grooming, and training for a horse. The sister just rides the horse at the show		

2.	List below another issue that may be thought of as ethical to some
	and unethical to others?
_	
-	
3.	Discuss the issue you came up with in your group. Summarize the
	discussion below.
_	
_	
_	
_	
4.	Did personal values affect how you and others felt about the issues?
_	
_	
4.	Did personal values affect how you and others felt about the issue

	nterview a person involved in the industry to see how their persona
e	thics apply to their involvement in the industry. Summarize your
i	nterview below.
-	
-	
_	
.	What are some issues you may face or have faced in your life that
•	would require you to use your personal values and beliefs when
	making a decision?
-	

	mayanal life	
	personal life.	
_		
		_
		_
_	*****	
_		
-		_
		-
_		
_		_

Housing and Pasture Management

A horse is an outdoor animal and normally needs little shelter.

However, all horses should be protected from the elements. Horses need a place to get out of the rain, wind, snow or sun. Without adequate shelter, a horse can become sick.

Why sho						
do you r	eed to protect t	them from	.?			
					A. A	
						_
	2002					
			-			_
2. What ele	ments should y	you consid	er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	
2. What ele	ments should y		er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	
2. What eld			er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	
2. What ele			er in desig	ning a ba	rn?	

X	to	x			
Brainstorm id include. Use designs. Draw where things discussed below	your local l w a floor pla go and give	ibrary or an for you measure	the Internet or ideal barr	to find d below, b	lifferent barn be sure to lab

5.	How can drawing plans help people make good decisions before building "the real thing"?
_	
6.	Depending where you live, what other surrounding, environmental factors should you consider when deciding the perfect location for your barn?
_	
_	
7	What other important decisions require planning?

8. Fill in the table below; list five different types of fence, the cost per linear foot, pros and cons.

Type of Fence	Cost per Foot	Pros	Cons
		A JEST	T
10.00			-
	-		

9.	What are some concerns regarding the health of a pasture when
	grazing horses?
_	
_	

10. Fill in the table below with 5 common poisonous plants you should be aware of when pasturing a horse in your area.

Plant Name	Description	Symptoms

Equine Management

Do you have time and resources to own a horse? Owning a horse requires proper financing and adequate time.

1. Consider the things you do during a typical day. Use a school day and estimate the amount of time you spend doing each activity.

Activity	Hours per Day
Breakfast	
School	b
After School Activities	
Sports	
Watching TV	
Dinner	
Homework	
Chores	
Free Time	
Sleeping	
Total	24 hours

Now that you know how you spend your day do some research and find how many hours a day a horse would require.

Horse Care	Hours per Day
Feeding and Watering	
Grooming	4
Cleaning Out Stall	70000.00
Training/Exercising/Lessons	
Total Time Required	at University

- 2. Do you have time for a horse with all of your activities?
- 3. Fill in the budget below to see how much it would cost to purchase and own a horse for one year.

ltem	Quantity	Units	Average Cost/Unit	Total Cost
Horse Purchase				
Tack and Equipment:				
Halter & Lead Rope			=	
Water and Feed Buckets		15		
Saddle				
Saddle Pad				
Bridle				
Grooming Kit				
Winter Blanket				
Riders Outfitting:				
Helmet				
Boots				
Proper Clothing				
Feed:				
Forage				
Grain				
Salt & Minerals				
Maintenance:				
Farrier Service				
Dewormer				
Vaccines				
Veterinary Expense				
Riding/Horsemanship Lessons				
Miscellaneous				

Facility:		
Boarding/Pasture Rent		
Fencing/Shelter		
Transportation		
Total		

4.	What are some other expenses that have not been included and how
	do they affect your budget?
5.	How will you transport your horse?
6.	Is the total cost of owning a horse more or less than what you expected? Why?

When else is it important to budget your time and resources to assist
in decision making?

