2022 Horse Project Record Book DUE MAY 1st

Score	
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Everyone complete

ı	
Exhibitor's Name:	Circle One Age Division
Club Name:	This is your 4-H age as of
Number of years in horse project area?	January 1, 2022
Age(as of Jan 1 st 2022)	Age=8
Name of your project animal	Age = 9-10
Please print the above information	Age = 11-12
	Age = 13-14
	Age = 15-16
	Age = 17 and over
Members Signature:	
Parent Signature:	
OR	
Leader Signature:	
Resources to be used to complete this record book include: "4-h Horses and le "Horseless Horse", "State 4-h Horse and Pony Show Rules and Regulations" "4-h Miniature Horse Show Guidelines" and other resources provided in this	", "SCC4-h and Youth Fair Book",

Project Record Book Point Sheet

Project record book must be complete, have completed photo page, and exhibitors name and signatures along with parent or leader signatures, in order to be graded.

Name of page	Points available	Age group	Your score
Front Cover	9	Everyone	
Horse project record book	2	Everyone	
Requirements		y	
Horse name and info	13	Everyone	
Project Photo Page	8	Everyone	
Horse Parts	38	Everyone	
Horse project ground rules	43	Everyone	
Miniature Horse	25	Everyone	
Interesting horse facts	4	Everyone	
Western color	2	8yrs – 12yrs	
AQHA Words	20	8yrs-12yrs	
Brushes	12	8yrs-12yrs	
True and False	10	8yrs-12yrs	
Horse markings	11	8yrs-12yrs	
Safety First	58	13yrs and over	
Inheritance and Genetics	20	13yrs and over	
Inheritance and genetics cont	29	13yrs and over	
State 4hHorse and pony project	15	13yrs and over	
Horse and horsemanship/Science	19	13yrs and over	
Laminitis	29	13yrs and over	
Color Page	2	Everyone	

¹⁴ pages are required to be completed by age group 8 – 12 year olds with 199 points Possible

End page will be used for the coloring contest with awards in each age division given out Monday of fair.

¹⁵ pages are required to be completed by age group 13 and over with 314 points Possible.

Horse Project Record Book Requirements

4-H Horse Project Members may elect to participate in 4-H Winter Achievement with a Horse Science Project (See WA event catalog for details) INSTEAD of completing the required Project Record Book.

- Resources to be used to complete this record book and SCORE: "4-H Horse and Horsemanship",
 "Horse Science", "Horseless Horse", "State 4-H Horse Show Rules and Regulations", "SCC 4-H & Youth
 Fair Book", "SCC Miniature Horse Show Guidelines 2019" and the other resources directly provided in
 record book ONLY.
- 2. All books must be signed by exhibitor and parent or leader.
- 3. ALL PAGES that are listed as required for your division MUST BE COMPLETED regardless of incorrect answers. DO NOT LEAVE ANY BLANK ANSWERS. If the line does not apply to you please put N/A.
- 4. INCOMPLETE books will NOT BE SCORED and will automatically received "C" rating. All books not scored for requirement violations will receive a "C" rating.
- 5. Books which contain obvious adult contribution or inappropriate content will not be scored.
- 6. Creativity, effort, correctness and completeness will all be used in judging this record book.
- 7. Coloring is allowed and encouraged.
- 8. ALL PROJECT RECORD BOOKS MUST BE TURNED "IN" IN THE FOLDER PROVIDED OR 25 POINTS WILL BE TAKEN OFF YOUR TOTAL SCORE.
- 9. Please NO OTHER BINDERS, NO PUFF PAINT OR PUFFY STICKERS and NO SHEET PROTECTORS.
- 10. This project record book MUST be completed and turned in MAY 1.
- 11. Incomplete or late book will not be eligible for championship classes during fair. This book is part of your 4-H Project.
- 12. Books will be judged and the top 10 scores in each division will receive placing awards, with Grand & Reserve awarded if warranted.
- 13. You are welcome to complete pages from other age divisions, no extra credit points will be given. Points will be earned in your appropriate age division only. "However", extra pages could be used to determine top awards if needed.

Lets get started! Start Date of Book/
Goal for this project year?
/2 points

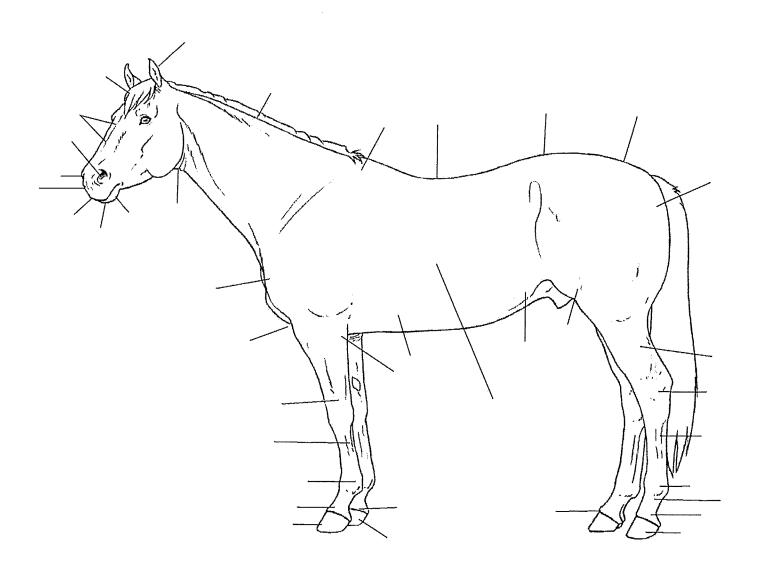
Horses Name:	-
BreedAGE	
SIZEHH. Color	·
Horses' markings:	******
Do you own your horse?	
Who takes care of your horse?	
What is something special about your horse?	
What goals have you set for you and your horse?	
What is your favorite class at fair?	
What would you like to see new at fair? And why?	
Man de Maria de la compansa del compansa de la compansa del compansa de la compansa del compansa de la compansa della compansa	

__/13 Points

Project Photo Page

Below attach at least 4 pictures wi	ith captions that reflect what you you take care of them.	do with your horse and/or hov
	,	
	_	/8 Points

Below fill in the horse parts.



_____/38 Points

Horse Project Ground Rules

Fill in the blanks

1. Authorit	y of the	is to be	at all times.
2. No	or	on horses in	or around the
3. No coffe	e/		
			ances are to be
in or	maintained in any	or	surrounding barns.
4,	for ea	arly releases must be on f	ile with the
•	per their o	deadline.	releases
be c	eared by the Fair Board.		
5. No animal	is to be taken into		, or
	a		
			ring, or other
	areas assigr		
		only.	
			Saddle Seat, and
classe	s are required to wear pro	operly fitting	
-	with the	sec	ured.
8. Helmets mu	st meet the specifications	of the	
for Test	ng and	(ASTM), must	be manufactured and
distribut	ed by a participant in the	Certification Program	of the
againmings to construct the limited of the limited			(SEI) and must bear the S
			/43 Points

MIMMATUKE UOKSE

Use the Michigan 4-H Miniature Horse Show Guidelines 2019 to complete this page - found on Horse Leaders Website

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riving

Interesting Horse FACTS

1. Horses can't breathe through their mouth

Horses are "obligate nose breathers" meaning that they can only breathe through their nose, not through their mouth as humans can.

2. Horses can sleep standing up

Horses have what's called a "stay-apparatus" which is a system of tendons and ligaments that allows the horse to lock their legs in position so they can relax without falling over. When not sleeping, horses also use this apparatus to rest while standing for long periods of time so they don't fatigue. This allows them to conserve energy while standing so they are ready to take flight if needed. But it is a myth that horses never lay down – they do spend a short amount of time each day laying down for deeper sleep.

3. Horses have lightning fast reflexes

Should a situation arise when they need to fight, they can go from standing still to delivering a powerful kick in just 0.3 seconds, whereas human reaction time is 1.6 seconds.

4. Horses have 10 different muscles in their ears

This allows them to rotate nearly 180 degrees and move independently of one another. Humans only have three muscles in their ears.

5. Horses have a nearly 360 degree field of vision

This is due to the positioning of their eyes on the sides of their head. However, they have two blind spots – one directly behind them, and the other just in-front and below their nose. This means that they cannot see the grass they are grazing on, or the carrot you are sticking out to them! Instead they use their mobile and sensitive lips, whiskers and sense of smell to know what is in-front of them and decide if they want to eat it.

6. Horses do not have teeth in the middle of their mouth

You can also estimate how old a horse is by looking at their teeth.

7. Horses are highly intelligent animals

They can be taught many different tasks through positive reinforcement and clicker training, just as dogs can. One study showed that horses have the ability to communicate their needs to their guardians; these horses learned to communicate whether they wanted a blanket on or off through touching symbols on a board.

8. The earliest ancestor of the horse is estimated to have lived 55 million years ago

This ancestor was only the size of a Labrador retriever. Horses were domesticated around 6000 years ago, estimated from evidence found at archaeological sites. They were first domesticated as a food source.

9. Horses have a fixed pelvis, so they cannot do the splits

They do have some lateral movement though, allowing them to scratch their ears with their hind feet.

10. Horses are very social animals

Since horses are prey species, they find safety in a herd and form strong social relationships with each other. They use their senses to recognize familiar horses and spend time with those they have formed friendships with. In the wild, one horse will stand guard to keep watch while the other horses in the herd take time to eat, rest and sleep

Fill in the blank with a sentence. If left blank will be marked wrong.

What is your favorite horse fact? why?	
What fact do you think every horse person should know?	
Do you know an interesting fact? Please share it with us	
	/4 Points

17 Baints

AMERICAN QUARTER HORSE



CGOPYLGJ DLE S HMK V S \bigcirc R R E L M W S B \bigcirc 0 T R P T 0 N K M E WN J T B B Α Z OP A Z H В T W R J \bigcirc HG M O H 0 D N P G R А Α Х F E \mathbf{C} В E N N R N G P Α S G S M U M D A U Z Υ R U U T F H X^{W} G Д J R S G R H B J Α N B R A P E F R P R F K

BAY

HOOF

REINS

STIRRUP

BOOTS

JUMPING

ROAN

TAIL.

BRIDLE

LOPE

ROPE

TROT

CHAPS

MANE

SADDLE

WITHERS

HELMET

PALOMINO

SORREL

WORLD SHOW

/20 Points

Below draw the different types of brushes. And then tell me how they are used.

CURRY COMB
Dandy brush
Grooming cloth
Hoof pick
Mane and tail comb
Sweat scraper

____/12 Points

TRUE OR FALSE

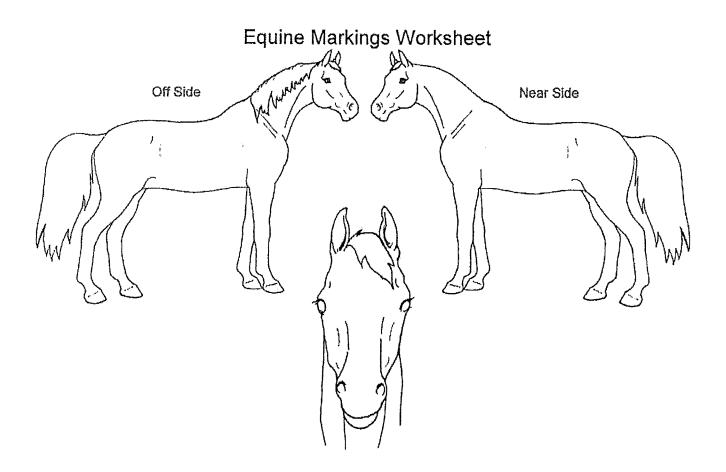
A brown horse with black mane and tail is a bay.
Do not run up behind a horse
The age of a horse is determined by its size
Grooming is important to avoid sores and skin problems.
Boots and helmets are worn for safety.
You never have to check your tack for wear and cracks.
Gallop is the slowest gait.
Arabians are the oldest and purest of all breeds.
 A whinny is a loud, piercing sound a horse makes.
Horses have bad hearing and cannot hear as well as we can.

Below is a horse with no marking. Read the description and color the horse like the description.

This horse is a bay. With both front feet have white pasterns. Back right foot has a white sock.

Its face has both a stripe and a snip. This horse has a star brand on its left shoulder.

All 4 hoofs are the color of straw.



_____/11 Points

Safety First

1.	No around horses.
2.	Never run up a horse.
3.	Because of where his are in his head a horse cannot see directly of or him.
4.	If you have to, or, don't do it around horses.
5.	They seem to if you are which makes them more
6.	Always walk around your Never walk the tie rope or step it.
7.	Wear that will protect your if the steps on you.
8.	Never wrap the or around your hand.
9.	Always untie the or before taking the off you horse. This may prevent if from and becoming a
10.	Walk beside the horse when leading, not or
11.	SEI approved, with harness should be worn when mounting or driving.
12.	Adjust the carefully and tighten the ensuring it will not turn when you mount.
13.	Lead the horse a few before
14.	Horses often up when first, and failure to later can result in serious accidents.
15.	When your horse is and attempts to, turn it in a and the circle until it

16. Don't try to a the	horse. Teach the horse at not in
17. Be a good; win without	and lose without
18. Do not punish your, excep	t at the of the
19. Horses require,,	, but firm
20. Always treat other people on would to be treated.	and in the same way you

_/58 points

Inheritance and Genetics

Fill in the blanks: 1. The study of how characteristics are passed from the parents to offspring is called 2. _____ are the only links of inheritance an animal has with its parents . A _____ cell from the sire and an _____ cell from the dam. 3. Complex chemical compounds which are the carriers of inheritance are called _____ and ______ 4. Horses have _____ pairs of chromosomes in each cell. 5. Characteristics are passed from parents to offspring through _____ which are the " " of the cell. 6. The formation of egg and sperm cells is called ______. 7. One pair of genes causes the coat to be either ______or _____, depending on which particular combination of the ______ qenes is present. 8. The _____ gene is dominant. 9. _____means genetic makeup. 10. Consider these circumstances: a.) A red (chestnut) mare(bb) is bred to a truly black stallion (BB). What color will the foal be? b.) A black stallion that has a Bb genotype is bred to a red (bb) mare, what color will the foal be?______ c.) A (Bb) stallion bred to (Bb) mare, what color will the foal be?______

Inheritance & Genetics continued

12. Many equine crosses have been made, the most popular between the	
, as the male parent, and the horse pro	oducing
the	
13. A stallion bred to a jennet produces a	
14. The and the are usually sterile.	
15. Stallions have one xand onechroi	mosome,
Their sex genotype is	
16. Mares havex chromosomes. Their sex genotype is	•
17. In reduction division in the stallion, half the contain an _	
chromosome and half contain achromosome. In the n	
cells contain an x	
18. If a sperm carrying an x chromosomethe egg	ı. the foal wil
Have an xx genotype, and would develop as a	
19. If a sperm carrying achromosome happens to fertilize the egg	
genotype would be and would be a stallion.	
20. The chances are for the foal to be or	

_____/29 Points

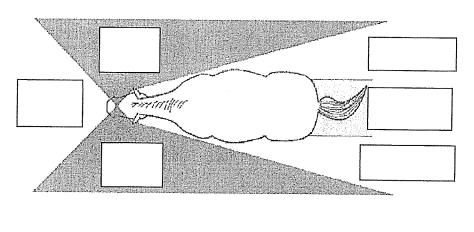
20.

State 4h horse and pony project show rules and regulations.

Name two Gymkhana disqualifications		
1		
2		
True o	or False	
	Electronic timers are preferred over stopwatches?	
	_ The start/finish timing line must be minimum of 15 feet from the end of	the arena?
	The timing line must be visibly marked in the arena?	
	The barrel bending pattern is run around 10 barrels?	
	Cloverleaf barrel race riders have the option of riding course A or B?	
What a	are the 8 general gymkhana rules?	
1		
2		
		
5		
6 7.		
3		7.4.8.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
		_/15 Points

Horses and horsemanship and horse science

Below is vision of the horse Fill in the boxes



/19 Points

Laminitis: Prevention and Treatment

Laminitis defined

Laminitis results from the disruption of blood flow to the sensitive and insensitive laminae. These laminae structures within the foot secure the coffin bone (the wedge-shaped bone within the foot) to the hoof wall. Inflammation often permanently weakens the laminae and interferes with the wall/bone bond. In severe cases, the bone and the hoof wall can separate. In these situations, the coffin bone may rotate within the foot, be displaced downward ("sink") and eventually penetrate the sole. Laminitis can affect on or all feet, but is most often seen in the front feet concurrently.

The terms "laminitis" and "founder" are used interchangeably. However, founder usually refers to a chronic (long-term) condition associated with rotation of the coffin bone, whereas acute laminitis refers to symptoms associated with a sudden initial attack, including pain and inflammation of the laminae. While the exact mechanisms by which the feet are damaged remain a mystery, certain precipitating events can produce laminitis. Although laminitis occurs in the feet, the underlying cause is often a disturbance elsewhere in the horse's body. The causes vary and may include the following:

- Digestive upsets due to grain overload (such as excess grain, fruit or snacks) or abrupt changes in diet.
- Sudden access to excessive amounts of lush forage before the horse's system has had time to adapt; this type of laminitis is known as "grass founder."
- Toxins released within the horse's system.
- High fever or illness; any illness that causes high fever or serious metabolic disturbances has the potential to cause laminitis, e.g., Potomac Horse Fever.
- Severe colic
- Retained placenta in the mare after foaling.
- Excessive concussion to the feet, often referred to as "road founder."
- Excessive weight-bearing on one leg due to injury of another leg or any other alteration of the normal gait.
- Various primary foot diseases.
- Bedding that contains black walnut shavings.

Although controversial, prolonged use or high dose of corticosteroids may contribute to the development of laminitis in some horses. Factors that seem to increase a horse's susceptibility to laminitis or increase the severity of the condition when it does occur include the following:

- Heavy breeds, such as draft horses
- Overweight body
- High nutritional plane (feeding large amount of carbohydrate-rich meals)
- Ponies, Morgans, miniature horses and donkeys.
- Unrestricted grain binges, such as when a horse breaks into the feed room (if this happens, do not wait until symptoms develop to call your veterinarian- Call immediately so corrective action can be taken before tissue damage progresses.)
- Horses who have had previous episodes of laminitis
- Older horses with Cushing's disease.

Signs

Signs of acute laminitis include the following:

- Lameness, especially when a horse is turning in circles; shifting lameness when standing.
- Heat in the feet.
- Increased digital pulse in the feet (most easily palpable over either sesamoid bone at the level of the fetlock).
- Reluctant or hesitant gait ("walking on eggshells").
- A "sawhorse stance," with the front feet stretched out in front to alleviate pressure on the toes and the hind feet positioned under them to support the weight that their front feet cannot.

Signs of chronic laminitis may include the following:

- Rings in hoof wall that become wider as they are followed from toe to heel.
- Bruised soles or "stone bruises."
- Widened white line, commonly called "seedy toe," with occurrence of seromas (blood pockets) and/or abscesses.
- Dropped soles or flat feet.
- Thick, "cresty" neck.
- Dished hooves, which are the result of unequal rates of hoof growth (the heels grow at a faster rate than the rest of the hoof, resulting in an "aladdin-slipper" appearance).

Treatment

The sooner treatment begins, the better the chance for recovery. Treatment will depend on specific circumstances but may include the following: \

- Diagnosing and treating the primary problem (laminitis is often due to systeming or general problem elsewhere in the horse's body).
- Dietary restrictions; stop feeding all grain-based feeds and pasture. Feed only grass hay until advised by your veterinarian.
- Treating with mineral oil via a nasogastric tube to purge the horse's digestive tract, especially if the horse has overeaten.
- Administering fluids if the horse is ill or dehydrated.
- Administering other drugs such as antibiotics to fight infection; anit-endotoxins reduce bacterial toxicity; and anticoagulants and vasodilators to reduce blood pressure while improving blood flow to the feet.
- Stabling the horse on soft ground, such as in sand or shavings (not black walnut) and encouraging the horse to lie down to reduce pressure on the weakened laminae.
- Opening and draining any abscesses that may develop.
- Cooperation between your veterinarian and the farrier (techniques that may be helpful include corrective trimming, frog supports and therapeutic shoes or pads.)
- Your veterinarian may be able to advise you on new therapies that may include standing your house in ice water to prevent the onset of laminitis after a predisposing cause such as a retained placenta or known grain overload.

Long-term outlook

Some horses that develop laminitis make uneventful recoveries and go on to lead long, useful lives. Unfortunately, others suffer such severe, irreparable damage that they are, for humane reasons, euthanized.

Your equine practitioner can provide you with information about your horse's condition based on radiographs (X-rays) and the animal's response to treatment. Radiographs will show how much rotation of the coffin bone has occurred and may also illustrate abscesses or gas accumulation that will affect the therapy of your horse. This will help you make a decision in the best interest of the horse and help the farrier with the therapeutic.

Management

It's important to note that once a horse has had laminitis, it may be likely to recur. In fact, a number of cases become chronic because the coffin bone has rotated within the foot and the laminae never regain their original strength. There may also be interference with normal blood flow to the feet as well as metabolic changes within the horse. Extra care is recommended for any horse that has had laminitis, including:

- A modified diet that provides adequate nutrition based on high quality forage, digestible fiber (beet pulp) and oil. Avoid excess carbohydrates, especially from grain.
- Routine hoof care, including regular trimming and, in some cases, therapeutic shoeing (additional radiographs may be needed to monitor progress).
- A good health -maintenance schedule, including parasite control and vaccinations, to reduce the horse's susceptibility to illness or disease.
- Possibly a nutritional supplement formulated to promote hoof health (biotin supplements are popular for promoting hoof growth).
- Avoid grazing lush pastures, especially between late morning and late afternoon hours, since plant sugars are the highest during these times. Restrict pasture intake during spring or anytime the pasture suddenly greens up.

Summary

The best way to deal with laminitis is preventing the causes under your control. Keep all grain stored securely out of the reach of horses. Introduce your horse to lush pastures gradually. Be aware that when a horse is ill, under stress or overweight, it is especially at risk. Consult your equine practitioner to formulate a good dietary plan. Provide good, routine health and hoof care. If you suspect laminitis, consider it a medical emergency and notify your veterinarian immediately.

Laminitis

1.	Definition of Laminitis:
,	
2.	What is the difference between Laminitis and founder?
•	
2	Causes of Laminitis
ა.	
	a
	b
	C
	d
	e
4.	Signs of Laminitis: Ture or False?
	 a1. Turning in circles; shifting lameness when standing.
	b 2. Cold in feet.
	c 3. No reluctant or quick gait.
	d4. A sawhorse stance with the front feet stretched out.
5. \$	Signs of chronic laminitis, true or false?
	a1. Rings in hooves that become narrower.
	b2. Widened white line, commonly called apple toe.
	c3. Dropped soles or flat feet.
	d4. Thick crusty mane .
Factors	s that increase Laminitis:
	hreads such as horses

2.	body.
3. 4	grain binges. horses with disease.
Trea	tment:
	four treatments for laminitis,
1	
2	
3	3.
4	
	F Long term outlook and management: 1 All horses recover 2 Radiographs won't show how much rotation of the coffin bone there is.
	 Avoid grazing lush pastures especially between late morning and late afternoon hours. A good health maintenance schedule, including parasite control and vaccinations reduces the horses chances of becoming ill.
	/29 Points

Color Contest



Finished Date:_____

_____/2points