HOW TO USE THIS PAMPHLET

The secret to successfully earning a merit badge is for you to use both the pamphlet and the suggestions of your counselor.

Your counselor can be as important to you as a coach is to an athlete. Use all of the resources your counselor can make available to you.

This may be the best chance you will have to learn about this particular subject. Make it count.

If you or your counselor feels that any information in this pamphlet is incorrect, please let us know. Please state your source of information.

Merit badge pamphlets are reprinted annually and requirements updated regularly. Your suggestions for improvement are welcome.

WHO PAYS FOR THIS PAMPHLET?

This merit badge pamphlet is one in a series of more than 100 covering all kinds of hobby and career subjects. It is made available for you to buy as a service of the national and local councils, Boy Scouts of America. The costs of the development, writing, and editing of the merit badge pamphlets are paid for by the Boy Scouts of America in order to bring you the best book at a reasonable price.
Requirements

1. Do the following:
   a. Describe the safety precautions you should take when handling and caring for a horse.
   b. Describe the fire safety precautions you should take in a barn and around horses.
2. Name the 15 main parts of a horse.
3. Name four breeds of horses. Explain the special features for which each breed is known.
4. Describe the symptoms of colic. Name and describe four other horse health problems.
5. Explain what conformation is and why it is important. Explain the difference between lameness and unsoundness.
6. Explain the importance of hoof care and why a horse might need to wear shoes.
7. Demonstrate how to groom a horse, including picking hooves and caring for a horse after a ride.
8. Explain how to determine what and how much to feed a horse and why the amount and kind of feed are changed according to the activity level and the breed of horse.
9. Do the following:
   a. Name 10 parts of the saddle and bridle that you will use, and explain how to care for this equipment.
b. Show how to properly saddle and bridle a horse.
c. Demonstrate how to safely mount and dismount a horse.
10. Explain and demonstrate how to approach and lead a horse safely from a stall, corral, or field and how to tie the horse securely.
11. On level ground, continuously do the following movements after safely mounting the horse. Do them correctly, at ease, and in harmony with the horse.
   a. Walk the horse in a straight line for 60 feet.
   b. Walk the horse in a half-circle of not more than 16 feet in radius.
   c. Trot or jog the horse in a straight line for 60 feet.
   d. Trot or jog the horse in a half-circle of not more than 30 feet in radius.
   e. Lope (canter) the horse in a straight line for at least 60 feet.
   f. Lope (canter) the horse in a half-circle not more than 60 feet in radius.
   g. Halt straight.
   h. Back up straight four paces.
   i. Halt and dismount.
What Is Horsemanship?

The goal of a good horseman is to become so sensitive to the entire horse, to the movements of its body and to how the horse thinks, that the rider can sense trouble, anticipate exactly how the horse will react, and move to control that reaction even before the horse is aware of its own feelings. A good rider will do these things without thinking, without even being able to explain what he did.

Will you be a rider or just a passenger? To be a good rider you must know what a horse is. You must understand the horse, and why it behaves as it does. You and your horse must become almost as one. Only then can each of you completely enjoy the advantages of the other.

- The horse is a flesh-and-blood creature, but it’s also a bundle of instincts. If you understand the instincts that cause a horse to act in a certain way, you can use that knowledge to become more skilled as a horseman.

Part of the Herd

Though they possess individual personalities, horses have a herd instinct. They do not like to be alone. Like other herd animals—animals that are preyed upon—horses are alert, timid, and insecure. Living in herds provides horses a sense of security and safety from real and perceived predators.

Horses also develop relationships within a herd. Wild herds have a leader, and the other horses are ranked behind this lead horse in a pecking order. This prevents fighting over food, water, and mates because a lower-ranked horse almost always yields to a higher-ranked horse.

Fossils reveal that horses have been evolving for approximately 60 million years. The first horses were no bigger than dogs and had multiple toes rather than hooves.
Horse Terminology

- A **stallion** is a male horse older than 4 years that is used for breeding.
- A **mare** is a female horse older than 4 years.
- A **filly** is a female horse younger than 4 years, and a **colt** is a male horse younger than 4 years.
- A **gelding** is a castrated male horse of any age. A gelding cannot be used for breeding.
- A **yearling** is a horse older than 1 year but not yet 2 years old.
- A **foal** is a young, unweaned horse of either sex, and a **weanling** is a newly weaned horse.

The leader of a wild herd usually is an older mare that the other horses respect. She leads the herd to food and safety and even settles disputes, sometimes using discipline. If a stallion is part of the herd, he protects the herd and leads it to food and water while the lead mare still leads the herd in social and day-to-day matters.

Domesticated horses also seek a leader. To practice good horsemanship, you will need to become the leader of your horse. The horse will seek direction, reassurance, food, and safety from you. If you do not become the leader, the horse will try taking the role.

Instincts, Senses, and Behavior

One of the horse’s most important instincts is defense. When startled or afraid, a horse’s strongest impulse is to get away. Horses use their speed, agility, bucking, and kicking to defend themselves.

Horses also develop habits. Some habits, such as those that you train the horse to do, are good and help foster your relationship with the horse. But some habits, such as biting, are bad. If you do not prevent or correct poor habits, the horse will be difficult to manage.

Horses have highly developed hearing, smell, sight, taste, touch, and what many call a sixth sense, which allows horses to recognize impending danger and to detect the moods of people around them.

Large, funnel-like ears aid a horse’s hearing. The ears can rotate in any direction to pick up sounds and vibrations. A horse’s ear position also is a signal of its mood. For instance, when its ears move back and forth, it is alert and listening. The ears will usually hang toward the side when a horse is relaxing or dozing. When the ears are laid back, it indicates aggression or displeasure.

Horses use their sense of smell to identify each other and other animals that could be predators. A horse’s sexual behavior also is affected by smell.

Because their eyes can move independently and are positioned on the sides of the head, horses can see almost all the way around their bodies except immediately in front of and behind them, where they have blind spots. Horses also see well in the dark. But their eyes do not focus like human eyes do; a horse must raise and lower its head to see objects clearly.

Horses can detect the same four basic tastes as humans: salty, sweet, sour, and bitter. Some people believe horses have a sweet tooth, just as people do. You might notice that your horse likes to eat apples or molasses, for example. Many commercial horse feeds have added sweeteners to make the taste more appealing.

Touch is a way for horses to communicate with each other and humans. By grooming each other with tongue and teeth, horses keep clean and develop friendships. As you earn the Horsemanship merit badge, you will learn how grooming your horse will help you strengthen your relationship.

Horse Talk

Horses communicate through body language, vocalization, smell, taste, and touch. A horse might show displeasure by pinning back its ears, baring its teeth, biting, and turning to show its hind legs. Signs of aggression or excitement include squealing, snorting, and grunting. A horse might whinny or neigh if a meal is late or when separated from its usual companions.
The Horse

You can learn a lot by reading about horses, but the best and most fun way to learn is to actually care for and ride a horse. Taking lessons can speed up your learning. But first, learn the parts of a horse so that you can discuss them with confidence.

Markings and Coat Colors

A variety of natural markings and coat colors gives horses their distinct looks.

Common face markings include the following:

- Star—a white mark on the forehead
- Stripe—a narrow white mark from the forehead to the nose
- White muzzle—a broad white mark that covers the muzzle
- White lips—a white mark covering just the lip area

![Horse parts diagram](image-url)
The great variations in a horse's color boil down to genes. For instance, a buckskin carries the cream gene, which "dilutes" its red/brown coat, giving it a yellow, cream, or gold coat. The buckskin also has black points such as on the mane, tail, and legs. Dun horses carry the dun gene, which gives the coat any color variation of yellow or cream. A dun always has a black dorsal stripe running down the middle of the back and some variation of other markings. The Appaloosa is a breed with distinctive dark patches over a white coat.

Blaze—a broad white stripe that runs from the forehead down the nose bridge, and covers the nostrils

Interrupted stripe—a narrow, white mark from the forehead to the nose

Snip—a white mark between the nostrils

Bald—a mark similar to a blaze but wider, encompassing the eyes and mouth

Leg markings include the following:

- Coronet—a white band around the coronet
- Pastern—white coloring from the hoof to the fetlock joint
- Sock—white coloring from the hoof to the top of the fetlock joint
- Stocking—white coloring from the hoof up to or covering the knee

The most common colors of a horse are brown and black, but nearly any color combination is possible. Many horse colors have specific names, such as the following:

- Bay—a reddish coat with a black mane, tail, and points
- Chestnut—various shades of gold and reddish brown, from pale to a rich red
- Strawberry roan—a chestnut color mixed with white hairs
- Blue man—black or brown mixed with white hairs
- Palomino—a golden coat with a pale tail and mane
- Pinto—two coat colors of irregular patterns, usually white and another color such as brown or black
Choosing a Horse

Because horse breeds can be as varied as breeds of other animals, such as dogs and cats, it is important to weigh the characteristics of each breed before choosing a horse. You will need to decide what factors are best for the purpose you have in mind for the horse, whether riding for pleasure, working cattle, showing, or competing. Decide on the breed, age, size, and sex of the horse accordingly.

Owning a horse is expensive and time-consuming, so first determine why you want one. Deciding whether you are able to handle the responsibility and expense takes great consideration. If you decide to buy a horse, have an experienced horseman help you select one, and have a veterinarian examine it. Buy from a knowledgeable and reputable horseman.

Horse Breeds

A breed of horse is an equine group that has a set of characteristics that distinguish it from other horses. These characteristics are preserved through selective breeding over a period of time. With purebred horses, the pedigree, or lineage, is recorded in a stud book. A male horse used for breeding often is called a stud. Stud stables or farms provide purebred male horses for breeding.

American Saddlebred

This breed, originally the Kentucky Saddler, was developed during the 19th century in the southern United States. Its ancestors include the Canadian Pacer, Narragansett Pacer, Morgan, Arabian, and Thoroughbred.
Because of its high-stepped gait, the breed is popular for recreational riding and show competitions, faring especially well in the five-gaited, three-gaited, fine harness, park, and pleasure categories. It is also popular for farm work and riding over rough terrain. American Saddlebreds have strength, stamina, and a pleasant temperament. They usually are bay- or chestnut-colored, but they also can be gray, black, palomino, and roan. These horses usually stand 15 to 16 hands tall.

**Appaloosa**

The Appaloosa is a distinctive and popular breed in the United States. The breed was developed by the Nez Perce Indians in the 18th century using stock the Spanish conquistadors brought to the Americas, but it was nearly wiped out in the late 1800s due to indiscriminate breeding. In 1938, Claude Thompson, a wheat farmer from Moro, Oregon, wanted to preserve the breed and established the Appaloosa Horse Club. The club has been largely responsible for the breed’s rebound.

The Appaloosa has five coat patterns: blanket, marble, leopard, snowflake, and frost. The American Appaloosa stands from 14.2 to 15.2 hands, but European types can grow larger. Appaloosas are excellent to use as pleasure horses and in parades, jumping, reining, dressage, and gymkhana games.

**Arabian**

The Arabian is considered the oldest and purest of all breeds. Developed in Arabia, the breed’s purity has been carefully maintained for thousands of years. Arabians have been bred in the United States since Colonial times.

Its short head and dished (concave) face make the Arabian unmistakable. The nostrils and eyes are large, and the eyes are widely spaced and positioned lower on the face than in other breeds. The ears are small and sometimes curve inward. Most Arabians are under 15 hands, with the ideal height between 14.2 and 15 hands. True Arabians have solid color and can be chestnut, gray, bay, or black. They often are seen in show classes for English and Western pleasure, trail, cutting, reining, jumping, and dressage.

**Draft Horses**

A draft horse is a large horse bred for pulling heavy loads. Although machinery has largely replaced the work horse, the draft horse continues to hold a place of importance and tradition in farming areas. Common breeds of draft horses include the Belgian, Percheron, and Clydesdale. Draft horses weigh at least 1600 pounds and stand at least 16 hands high. They have relatively deep, wide, strongly muscled bodies with strong backs and quarters. Their legs are short, and the leg bones are large and strong. Draft horses share the common traits of strength, patience, and a docile temperament, making them ideal for a multitude of purposes, including farming, show, and other recreational uses.
Morgan
The Morgan was developed in the United States in the late 18th and early 19th centuries from the offspring of a horse named after its owner, Justin Morgan. The Morgan is considered a general-purpose horse. Morgans have small ears set above a broad forehead. They have large eyes, an arched neck, a broad chest, a short back, and compact bodies. The coat is usually reddish but can be brown or black. They are usually between 14 and 15 hands tall. Morgans excel in many disciplines, including driving, carriage, park saddle, harness, hunter, dressage, cutting, competitive trail, pleasure saddle, reining, classic pleasure, and jumper.

Tennessee Walking Horse
The gait that made a day's work in the saddle comfortable for Southern plantation owners continues to be the best-known characteristic of the Tennessee walking horse. Today, this docile horse is a favorite mount of park rangers, mounted police, field trail enthusiasts, hunters, endurance riders, competitive trail riders, and show-ring performers. It is famous for the running walk that produces the unusual sliding ride that is so comfortable. The Tennessee walker can cover as much as eight miles an hour at the walk instead of the four or five typical of other mounts.

Thoroughbred
Thoroughbred ancestry dates to three 17th-century sires—the Darley Arabian, the Godolphin Arabian, and the Byerley Turk. In England, offspring from these stallions were bred with stronger domestic horses, resulting in a horse that could carry weight with a sustained speed over longer distances. Intelligent and courageous, thoroughbreds are a popular choice in many disciplines, including hunting, jumping and eventing, and horse trials. Thoroughbreds usually are between 16 and 16.2 hands. The head is lean, and veins can be seen underneath its thin skin. The alert eyes are big and the nostrils are large. Principal colors are black, brown, gray, chestnut, and bay. Thoroughbreds often are high-strung, nervous, and sensitive, and they can be temperamental.

Quarter Horse
The quarter horse was the first breed established and developed in the United States. It was developed from Spanish and Middle Eastern breeds that were crossed with horses from England and Ireland in the early 17th century. This combination resulted in a compact, heavily muscled horse that excelled in short-distance racing. The quarter horse often is used for ranch work. Because of its ability to start, stop, and turn quickly, it is perfect for working cattle. It excels as a cutting horse, hunter, and pleasure horse. The quarter horse stands between 15 and 16 hands, and the usual color is chestnut.

Paint
The paint is descended from Spanish horses and is distinguished by its two-toned coat. Within the breed, the coat patterns are divided loosely into three types: tobiano, which is a mostly white coat with dark spots; overo, which is a mostly dark coat with white spots; and tovero, a combination of tobiano and overo. American Indians liked the paint because its blotchy coat provided a natural camouflage. Western cowboys liked it because it could maintain a comfortable pace over long distances. Paints stand between 14 and 16 hands and have a wide range of builds and temperaments.
Conformation

Conformation refers to a horse's build. It includes the horse's skeletal and muscular structures and all of the physical features and proportions that are characteristic of its breed. A horse's conformation is a critical indication of its soundness and ability. A well-proportioned horse will be well-balanced, which allows it to move efficiently and makes it less prone to unsoundness and strain. A well-balanced conformation will give the horse a longer working life and help maintain a better temperament.

As you choose your horse, keep the following things in mind.

First, look at the horse's general build. It should be muscular and the muscles should look evenly built, giving the horse a balanced shape.

Look for a well-shaped head that is proportional to the rest of the body. A head that is too big or small will upset the balance of the horse's overall appearance. Likewise, the features of the face—the ears, eyes, and nostrils—should be symmetrical and look proportional to the size of the head. The neck should be muscular, proportional to the rest of the body, and slightly arched.

The arch in the back should dip slightly, and the withers should be prominent, showing firm support for the neck muscles. In a mature horse, the croup will be aligned with the withers. If the arch in the back dips too low, the horse is sway-backed. A well-aligned back and withers means a saddle will fit better.

Proper front and hind leg alignment, front and rear views

Straight legs are important for long-term soundness. Irregularities affect how the horse moves (which might affect its rideability) and may lead to unsoundness. View a horse from all sides to assess the legs.

When viewing the forelegs and hind legs from the front and behind, the alignment of each should follow a vertical line dropped from the shoulder blades and butts through the middle of the knees, hocks, and fetlocks to the center of the hooves.

• From the side, the vertical alignment of the forelegs passes through the center of knee, cannon bone, and fetlock, and lands behind the heel. When viewing the hind legs from the side, a line dropped from the point of the buttock to the ground should touch the hock and continue down the vertical line formed by the rear of the cannon bone and fetlock.

The illustrations here show some conformation faults you might see in a horse's legs.

Proper front leg alignment, side view

- Splay-footed—the toes are turned outward below the fetlock
- Sickle-hocked—excessively angled and weak hocks
- Knock-kneed—the legs are turned inward at the knees
- Bow-legged—the hocks are positioned too far to the sides
- Basch-kneed—the cannon bones are turned outward below the knee

Horse with normally curved back

Swaybacked horse

HORSEMANSHIP
**Age Considerations**

A well-cared for horse can be saddle-mounted for about 20 years. An older horse that is already trained makes a better mount for a beginning rider than a young, untrained horse.

**Sex, Disposition, and Soundness**

Mares and geldings usually are the best choices for saddle horses. Geldings usually are calmer and steadier than mares or stallions. A mare might be more difficult to handle when she is in heat, which occurs for several days about once a month throughout the spring, summer, and fall.

**Owning a Horse**

If you keep a horse in a pasture, the general rule is one horse per acre. A horse kept in a barn or stable will need bedding so that it does not stand on a hard surface constantly. Dust-free wood shavings make a good, clean bedding. Hay can also be used.

Stables and barns should be cleaned every day, sometimes more often. Remove all horse waste and soiled bedding. Sweep and hose down the floor. After the floor is dry, add clean bedding.

Before you buy a horse, be sure you have a place to keep it. If you do not live on a farm or ranch, you will need to board the horse. Boarding rates will vary according to services provided.
Safety With Horses

Before you handle a horse, you should know a few safety rules. Because horses can sense if you are afraid, be confident yet careful around them. Prevent accidents and injuries by following these rules.

- **Ground Safety**
  - Never startle a horse. Always speak reassuringly whenever you approach.
  - While working around a horse, stay close to the front or sides so it will not be tempted to kick you and, if it does kick, you will not be struck with the full force of the kick.
  - Never approach a horse directly from the rear because a horse has a blind spot directly behind it. You might startle it and cause it to kick, which could result in a serious injury.
  - Walk beside your horse, near the shoulder, when leading it—never ahead or behind.

- Do not wrap the lead strap, halter rope, or reins around your hand, wrist, or body. Lead from the left or near side, using your right hand to hold the lead rope. Keep the excess rope in the left hand in an S shape with your fingers to the outside.
- If the horse rears, release the hand nearest the halter so that you stay on the ground.
- Never mount in a barn or near fences, trees, or overhangs. A sidestepping horse could force you into one of these obstacles.

- **Riding Safety**
  - Never bind yourself to the horse or saddle.
  - Keep the horse under control and maintain a secure seat at all times. Horses are easily frightened by strange noises and objects.
  - When a horse is frightened and attempts to run, turn it in a circle and tighten the circle until the horse stops.
  - Hold your mount to a walk when going downhill or uphill.
  - Slow down and hold the horse's head up when riding over rough ground or in sand, mud, ice, or snow, where there is a danger it might slip and fall.
  - Avoid paved roads because a horse, especially one with shoes, can slip and fall. When you must cross a paved surface, slow the horse to a walk, or dismount and lead the horse across.
  - Beginning riders should not jump a horse. If you cannot avoid a jump, give your horse a loose rein, grasp the saddle, and lean well forward with your heels down.
  - If lost on a trail, allow the horse to go its own way. A horse knows where it is fed and, if given a choice, will return to that place.
Tack

You will need several pieces of tack, or equipment, to ride and care for a horse. The cost of equipment can be high. To save money, you might buy used tack that has been well-maintained. Whatever you buy, the tack must fit the horse. Learning to properly use and take care of equipment is important.

Saddles

The type of saddle you get will depend on your reason for riding the horse. Distinctive styles of Western and English saddles are available for dressage, show jumping, Western pleasure, and saddle seat classes. You might choose an English general-purpose saddle or a Western trail saddle because both can be used for several activities.

- Saddles are made of leather or a synthetic material. Quality leather saddles are supple, strong, long-lasting, and costly. Synthetic saddles usually are less expensive and easier to maintain, but they might not be as durable.

Western saddle

![Diagram of Western saddle]

- Horn
- Fork
- Pommel
- Jockey
- Fender
- Laxgo
- Stirrup
- Cinch
- Cinch ring
- Cantle (with Cheyenne roll)
- Conchos
- Skirt
- Back housing
- Dee rings
- Plank cinch
English saddle

English and Western saddles have distinct differences. The Western saddle was designed for driving cattle and is also called a stock saddle. It has a higher cantle (the raised back part), a higher pommel (the raised front part), and longer stirrup leathers than the English saddle. The Western saddle also has a saddle horn, for tying and carrying rope to lasso cattle.

The heavier and larger Western saddle might give a beginner more security, but it is harder to handle than an English saddle, which is lighter and flatter and requires that the rider develop a surer seat, which can lead to better horsemanship. On an English saddle, the rider sits closer to the horse, which allows the rider to more easily use posture and leg movement to communicate to the horse.

An ill-fitting or poorly adjusted saddle will make the horse’s back sore.

Consider the size and shape of the horse when fitting a saddle. Have an experienced horseman check the fit of the tack on the horse to make sure the saddle does not slip, rock from side to side, or pinch the horse’s withers.

Bridles

The main interior support of the saddle is called the tree. It can be made of wood or a hard synthetic material and is covered with leather or synthetic material. The girth or cinch is a strap of leather, cotton, wool, or synthetic material and is used to secure the saddle to the horse. Flaps, skirts, and fenders protect the horse’s sides and the rider’s legs.

The rider uses the bridle and reins to tell the horse where to go, stop, or turn. Pulling or guiding the reins pulls on the bit and the bar in the horse’s mouth, which applies pressure to the horse’s tongue.

Bridle types include the single, double, and hackamore. However, only experienced riders should use the double and hackamore bridles. Parts of the bridle can include the headstall, browband, throatlatch, noseband, cheek piece, bit, and reins.

When positioning the bridle, it is recommended that two fingers fit under the browband and the noseband. The browband should allow the headstall to rest comfortably behind the ears, just below the base of the ears. The other parts of the bridle can be adjusted to fit.

Full cheek snaffles are common bits used in both Western and English riding. The ordinary single-jointed snaffle bits should be fitted with about 1/4 inch clearance between the horse’s lips and the bit ring. Double-jointed bits are fitted more closely to the width of the horse’s mouth.
The bit should be placed in the toothless gap between the front and back teeth. A correctly adjusted bit should cause only one or two wrinkles in the corner of the horse's mouth. However, this might not be appropriate with horses that have an unusually long or short mouth. A bit that suspends too low will bang against the front teeth. A bit that is pulled too high will press against the molars.

Saddle Pads and Blankets

The saddle pad, or numnah, adds comfort when the horse is wearing a saddle. When fitting the pad on the horse’s saddle area, be sure to slide it in the same direction that the horse’s hair grows. The pad should not be creased or wrinkled anywhere, and it should be pulled up fully into the saddle gullet.

Clothing

When you learn to ride, wear clothes that are comfortable and will not impede riding. That can include jeans or jodhpurs (breeches that are worn in English riding). Gloves will keep your hands clean, prevent blisters, and give you a better grip on the reins. Western boots, long riding boots, or jodhpur boots are recommended. You should not wear flexible, light shoes or heavy hiking boots. In certain terrain, shoes with cleats add traction.

Safety Stirrups and Helmets

Horse riding can be dangerous, so take precautions to ride safely. First, make sure you have proper-fitting tack to help avoid causing the horse to become irritated and hard to control. A proper riding helmet is very important. Only helmets approved for equestrian activities (such as one approved for horseback riding by the ASTM) should be used. Helmets designed for other sports will not give you the necessary level of protection.

When participating in Scouting-related horsemanship activities that call for you to work directly with or around a horse, you should wear an equestrian helmet approved by ASTI and ANSI.

Wear an equestrian helmet to help prevent head injuries that could be caused by falling from a horse or being kicked. Consider using safety stirrups to ensure that your foot does not get trapped in the stirrup if you fall. Be sure the stirrups fit your footwear. Use stirrups that are ½ to ¾ inch wider than the footwear.
Care of Equipment

Your safety and the horse’s comfort depend on tack that is clean and in good condition. To take care of tack properly, you will need these items:

- Saddle soap
- Multiple sponges, for washing and soaping
- Chamois cloth
- Leather conditioner such as neat’s-foot oil
- Metal polish
- Cheesecloth
- Clean towels
- A blunt knife
- A stiff toothbrush
- A straight stick to poke excess soap out of buckle holes, etc.
- A saddle rack to hold the saddle
- A bridle rack

Clean the tack after each ride, especially the leather parts. If you cannot do a complete cleaning, at least clean under the saddle and wipe the reins clean using a damp sponge.

To properly clean, strip the saddle of the girthing and stirrup leathers and, on English saddles, remove the stirrup irons. Using a damp washing sponge, wipe off dirt or any mud on the saddle and parts you have removed. Do not forget the underside of the saddle.

Use a chamois to help dry the tack. After the tack dries, rub a sponge with wet saddle soap and sponge the soap into the saddle using a circular motion. The sponge should be only slightly damp so that the soap does not lather. Re-soap the sponge often. Be sure to soap underneath the flaps, then soap the stirrup leathers, and other leathers. Clean the Western saddle stirrups, which often are covered in rawhide. Wipe off excess soap with a damp cloth. You can oil the leather parts on occasion, but use oil sparingly.

If you have a fabric girth, it can be scrubbed with a mild detergent. Rinse off the soap thoroughly and prevent rust by immediately drying and polishing the metal billet buckles or cinch ring.

Use metal polish on the metal parts. But do not put polish on the mouthpiece or wash it with soap. Wash the mouthpiece occasionally with warm water. Keep saddle blankets and pads clean, dry, and well-aired.

Store tack properly, such as in a well-ventilated storage shed—not in places such as a car trunk or dusty barn. Hang up the bridle, and put the saddle on a saddle rack or saddle horse.
Grooming and Care

Proper grooming of your horse is important. Dirty coats can lead to fungus and other skin problems. Grooming allows you to catch these problems early. First, grooming will give you a chance to inspect your horse.

Outdoor horses do not need to be bathed as often as stalled horses because outdoor horses need to stay protected against the weather. Also, outdoor horses will roll in the grass or dirt to help stimulate their skin.

Grooming equipment you will need:

If the horse has caked and dried mud or dirt on it, use the dandy brush to remove the dirt by working in the direction of the hair growth. Wash off wet mud or silt until it drains to

Aside from being a necessary task, grooming allows you to communicate and build a deeper relationship with your horse. Talk kindly and softly to your horse while grooming.
Before grooming, tie the horse in a safe place inside a stable or outside, using a quick-release knot like the one shown here. This knot enables you to release the horse quickly in case of emergency. Be sure the tie is level with, or slightly higher than, the horse's wither.

**Step 1**—Tie the free end of the horse's lead rope to a breakaway tie—a piece of string, baling twine, or leather. Then, tie the breakaway tie around a post or through a ring.

**Step 2**—Create a loop by bringing the free end over and around the tie end (the part of the rope attached to the horse).

**Step 3**—Make another loop with the free end, and push this loop through the one you made in step 2.

**Step 4**—Pull the tip of this loop to tighten the knot.

To undo the knot in case of an emergency, pull the free end.

Next, with the body brush in one hand, work from the front of the horse toward the rear. Work the brush in the direction in which the hair grows. Here are some other grooming tips:

- Take care not to bang the hard edges of the body brush against bony areas.
- Keep the hand that is not brushing in contact with the horse. Doing so helps to quiet the horse. It will also warn you of any dangerous movement the horse may make.

Remember, horses have blind spots directly in front of and behind them.

- Use a soft brush or the body brush to gently brush over the eyes and ears.
- After every few strokes, clean your brush with the metal currycomb.
- Keep a routine of the areas brushed, starting with the near side, or left side, so that you do not miss an area. Brush firmly, but do not be too rough.
- Use the body brush on the mane, forelock, and tail. Brush gently, working through a few hairs at a time to avoid breaking the hairs. Use your fingers to untangle any knots while holding the hair in the other hand. After brushing, you can lay out the mane and tail using a damp brush to help keep the hair in place.
- Pull long, unwanted hairs from the mane rather than cut the mane.
- Brush the forelegs, paying special attention to the joint areas and the area behind the pasterns. Do not use a currycomb below the horse's knees.
- With a damp sponge, clean the dirt and discharges from the nose, lips, and eyes. With a different sponge, clean the rear, the tail, and, if you have a gelding, the sheath. Wash the sponges thoroughly after using them.
- A final polish is next. Use a dampened soft cloth or a chamois to smooth down the whole horse.

Some horses might be ticklish between the hind legs and on the belly. You might need to use your hand to brush these areas.

Normally, you should not comb or brush the tail on a regular basis. Doing so can break the hair or pull it out. Over time, this would result in a sparse, thin tail.
Hoof Care

A horse's usefulness depends greatly on the condition of its hooves, which need daily inspection and attention to stay healthy. For example, rocks and other objects can lodge in the hooves and cause bruising. In addition, long-term exposure to bacteria can lead to infections.

Hooves grow continuously. Starting when a horse is about 6 weeks old, the hooves should be leveled with a rasp (file) to prevent the bones from growing crooked. Lifting, inspecting, and cleaning the hooves daily will prepare the horse for the possible next step of shoeing.

A hoof pick probably will be the most important item in your grooming kit. Always clean the hooves before and after riding.

Most horses are first shod at about age 2. Shoes help prevent excessive hoof wear under rocky conditions. Horses with shoes need a hoof trim and reshoeing about every six to eight weeks.

Horses with conformation faults can be helped by proper shoeing. A horse that has flat soles or weak hoof walls probably will need shoes. Shoes can protect the hooves from objects, such as stones. Horses that are ridden in the winter, when the footing can be slippery, will need the added traction that shoes provide. Special cleats also can be used to enhance footing under certain conditions.

It is best to keep horses out of wet, muddy areas because these conditions can promote fungal infections. Besides thrush and founder, which are discussed later in this pamphlet, other problems with hooves include corns, bruised soles, abscesses, cracks, splitting, and navicular disease.
Steps for Picking Hooves

Here are the steps to help you care for the hooves.

**Step 1**—Put a halter on the horse and tie it to a rail or post with a quick-release knot. Make sure the horse is standing square with its weight evenly distributed.

**Step 2**—Stand beside the horse's left foreleg, facing toward the tail. Run your left hand down the leg so the horse is aware that you are going to do something. Many horses will lift the foot when the hand reaches the pastern (just below the fetlock joint and above the hoof).

**Step 3**—If the horse does not lift its foot, apply gentle pressure with your thumb and forefinger to either side of the fetlock, or firmly pinch the pastern with your thumb and index finger.

**Step 4**—If your horse still does not pick up its foot, lean against the horse slightly, pushing its weight to the other foreleg while trying steps 2 and 3 again.

**Step 5**—Once the horse lifts the leg, hold it in your left hand. Hold the hoof pick in your right hand, and begin cleaning from heel to toe to remove debris. Pay particular attention to cleaning the cleft between the sole and the frog. Check for dampness and any dark, foul-smelling fluid oozing from the frog or sole. The frog should be firm, with no discharge. If you find problems, have a veterinarian examine the horse.

**Step 6**—Check the shoes for loose or missing nails. Make sure nails are crimped down so they do not pull out.

**Step 7**—Repeat steps 1 through 6 with the remaining three hooves, working in order from the near hind foot, the far (right) forefoot, and the right hind foot. To pick up a horse's hind foot, stand beside the horse's flank. Place a hand on the horse's hip and run your other hand down the leg to the cannon. Pull the leg forward, binding it to the hock. Walk straight back, resting the horse's cannon on your thigh. Lock your arm over the hock so that the horse cannot kick.

**Step 8**—Use a paintbrush to apply a hoof dressing, especially if the hooves are dry and brittle. Work from the inside of the hoof to the outside.

A professional shoer at work

A shod horse's hooves should be picked daily. This will give you a chance to check for infections, foreign objects, loose shoes, and other problems.
Health Matters

A healthy horse has bright eyes, and the membranes under the eyelids and nostrils are an even, pink color. A healthy horse’s coat lays flat and has a glossy sheen. The skin should be clean and loose. The limbs should not have swelling.

An unhealthy horse could have many of the following signs:

- Red, yellow, white, or purple membranes under the eyes or in the nostrils
- A tight, blotchy coat
- Puffiness in the limbs
- Loss of appetite
- A cough, runny nose, or watery eyes
- Abnormal bowel movements
- Strong-smelling manure
- Thick and dark urine
- A protruding bone structure
- High temperature
- Uneasiness or restlessness
- Sweating while at rest

If your horse displays any unhealthy conditions, consult a veterinarian.

A horse’s normal temperature is between 100 to 101.5 degrees. The normal pulse rate is 32 to 44 beats per minute. A horse at rest will have respiration of eight to 15 breaths a minute. The temperature is taken professionally using a rectal thermometer. The pulse can be taken by feeling the inner surface of the lower jaw, just behind the elbow and the eye. Count the pulse for 20 seconds on a stopwatch, then multiply by three.
Regular Checkups
Besides having your horse examined by a veterinarian when it is ill or lame, your horse also needs regular checkups. For example, a horse needs vaccinations to prevent serious diseases such as tetanus and equine flu. All horses should be wormed on a regular basis. A horse’s teeth should be checked once a year. Older horses might need more frequent teeth checkups.

Dangerous Plants
If your horse grazes in pastures and fields, you will need to be aware of the poisonous plants in your area. Check with a veterinarian or horse expert to learn more.

Make sure that horses on pasture have adequate hay and/or grass so that they will not resort to eating poisonous plants. Some of the more common poisonous plants include:
1. **Ragwort**, which also can be found in hay
2. **Acorns**, when eaten in large quantities
3. **Buttercups**
4. **Nightshade**
5. **Hemlock**
6. **Bracken fern**
7. **Yew trees** are extremely toxic, and all parts of the tree, whether dead or living, are poisonous.

First Aid
You will need a first-aid kit to tend to minor scratches and wounds. Any serious injuries must be treated by a veterinarian. If your horse is wounded, take the following steps while waiting for the veterinarian:
- Calm the horse by talking in a soothing voice and stroking, patting, and rubbing the horse gently, quietly, and slowly.
- Slow the bleeding if necessary, confine the horse, then clean and disinfect the wound.
- Do not attempt to treat eye, joint, or deep abdominal wounds.

A first-aid kit prepared specially for your horse (with a veterinarian’s advice, if necessary) will ensure that you have the right materials available in case of an emergency. Store the first-aid items in a sealable plastic container and keep the container where you can reach it easily, such as the tack room.

First-aid kits for horses should include most of the following items:
- Disinfectant (rubbing alcohol)
- Antiseptic ointment
- Antibiotic ointment
- Swabs
- Sterile gauze sponges or pads (a variety of sizes)
- 3-inch gauze roll
- Adhesive tape (2-inch rolls)
- Safety pins
- Instant ice pack
- Scissors
- Tweezers or forceps to remove thorns or splinters
- Fly repellent
- Horse thermometer
- Petroleum jelly
- Epsom salts, for soaking abscessed feet
Ailments

Keeping your horse and stable clean will help prevent many of the ailments that can affect a horse. Keep feed boxes and bedding clean, as well. Make sure your horse has access to clean, fresh water at all times.

The following common horse-related ailments require immediate examination by a veterinarian.

**Colic** is pain in the abdomen. Colic can be mild or serious enough to cause death. Some of the causes include moldy feeds, internal parasites, overfeeding on grain when the horse is tired, letting a horse go on feed while it is still hot after a workout, or riding a horse immediately after a full feeding.

A horse with colic is in great pain. The horse will be agitated, constantly moving, sweating, and trying to roll. Rolling can be dangerous because it could cause a twisted intestine, which requires emergency surgery. Halter an afflicted horse to keep it from rolling. Walk the horse until the veterinarian arrives.

** Founder,** or laminitis, is an inflammation of the sensitive tissue in a horse’s hoof that usually causes lameness. It is one of the most serious hoof diseases. A gap forms between the hoof and the sole, pushing the coffin joint out of position. This condition causes severe pain when the horse puts weight on the affected foot.

One common cause is letting a horse eat lush grasses. Horses are not able to cope with large amounts of lush spring grass or feed mixes that are rich in protein.

**Parasites** such as roundworms, stomach worms, bloodworms, or bots (boral larvae) can infect a horse. An infected horse might suffer from poor growth, anemia, a dull coat, listlessness, and digestive problems. Strongyloides (types of parasite worms) can damage abdominal arteries. Roundworms can cause problems for young horses and yearlings. Colts and fillies often suffer from pinworms, which cause severe itching around the tail.

In addition to giving an afflicted horse deworming drugs, regularly clean and remove manure from stables or indoor areas where the horse is kept. Do not dispose of the manure in pastures or near water or feed. Have a veterinarian screen the horse’s manure for parasites a couple of times a year and two weeks after deworming.

**Respiratory problems and coughing** also are common horse ailments. An afflicted horse will cough and/or wheeze because of irritation in the airway. This could be caused or aggravated by dusty, moldy feed, fungal spores in hay; or being ridden in cold air.

**Strangles,** or equine distemper, is a fairly common, contagious disease that stems from an infection caused by *Streptococcus equi* bacteria. Young horses between 6 months and 5 years of age and very old horses are most susceptible to the disease.

Symptoms can be swollen lymph nodes in the head and neck regions, nasal discharge, lack of appetite, and high fever. Isolate any horses showing these symptoms in a clean, well-ventilated stall.

**EPM,** or equine protozoal myeloencephalitis, is a debilitating neurological disorder caused by a parasite that enters the horse through infected drinking water or food and settles in the spinal cord. Symptoms include lameness, weakness, loss of motor control, loss of appetite, muscle atrophy (loss of muscle), and paralysis. Tests cannot prove conclusively if a horse has EPM.

Most experts believe that the source of the parasite is opossum droppings. To help prevent the disease, protect water and feed from opossums, conduct proper grooming routines, and minimize stress to the horse.

**Equine infectious anemia,** also called swamp fever, is transmitted by biting flies and mosquitoes. The ailment attacks a horse’s immune system, and there is no vaccine.

Symptoms include high fever, no appetite, labored breathing, pounding heartbeat, bleeding in the mouth, and leg swelling. Because this is a viral disease, no drugs can effectively treat it. Infected horses usually die within 30 days.

**Moon blindness,** or periodic ophthalmitis, is the most common cause of blindness in horses. Not much is known about the condition, which causes an inflammation of the blood vessels in the eye. It usually affects only one eye and
Some people believe the recurrence of moon blindness coincides with the phases of the moon, thus the name.

Problems of Unsoundness

**Splints** are swellings and bony enlargements on the splint bones, which are small bones located near the cannon bone of each leg. Several things can cause splints, including faulty conformation, injuries, strains, and nutrition.

**Ringbone** is caused by faulty conformation, overwork on hard ground, poor nutrition, improper foot balance and shoeing, wire cuts, infections, or strained ligaments. Ringbone involves bone change or new bone growth at the pastern and/or coffin joints. The most severe condition can be life-threatening.

Lameness and an enlarged pastern are symptoms. Treatment includes complete rest for an entire season, immobilization of the affected joint for at least a month, anti-inflammatory drugs, and surgery.

**Parrot mouth**, also called overshot jaw, occurs when the upper incisors overlap the lower ones. Many foals that are slightly affected will grow out of it. Severe cases are unsightly and make grazing difficult for the horse. Orthodontic treatments are available.

**Bone spavin** is joint disease, or arthritis, of the hock. Causes include strains, faulty hock conformation, mineral deficiency, injury, or working a young horse too much too early. Symptoms include the horse dragging its toe, firm swelling on the inside of the hind leg where the cannon bone joins the hock joint, a decrease in hock action, and lameness that disappears with exercise. Treatment varies; it could include complete rest, adding mineral supplements to the diet, or surgery.

often recurs. Thoroughbreds 2 to 3 years old are the most commonly affected, but horses of any age can become afflicted.

Symptoms include redness, increased tearing, half-closed, and painful-looking eyes, as well as swelling and tenderness of the eye or eyes.

**Monday morning disease**, or azoturia, is most often noticed when a horse has worked hard during the week while on full feed but gets sick when put to work on Monday (or any day) after a period of idleness during which the horse continued to receive full feed. Though eating too much while idle is the cause, azoturia is regarded as a more complex issue, involving type of diet, vitamin deficiencies, and other factors.

When being worked or exercised again after the idleness, the loins and quarters stiffen and cramps result. Other symptoms might include a high temperature, sweating, and stiffening of the legs.

**Common unsoundness** is linked to a horse's conformation and includes anything that inhibits or interferes with the horse's strong, natural instincts or that affects the intended use of a horse.

**Lameness** is the impaired movement of the legs. A horse generally is considered lame when pain causes it to alter the usual weight distribution on one or more legs. Lameness can be caused from:

- Inherited conformation faults
- Bruised soles
- Cracked or badly trimmed hooves
- Tendon, ligament, or joint problems
- A sore back
- Improper riding (also called "rider-induced lameness")
Feeding Horses

Although horses are built to forage, it is not always practical to put a horse out to pasture. So, you will have to feed your horse. When feeding, there are a few rules to follow.

- Provide an amount of feed appropriate to the horse’s activity level. Too much feed can cause digestive and circulatory problems. Too little feed can lead to a loss of energy, and it could harm the horse’s overall condition.
- Do not feed a horse that is tired or overheated. Let a horse cool off sufficiently after exercise or work before allowing it to eat.
- Water is critical for a horse’s health. It helps produce saliva and other fluids, regulates body temperature, carries nutrients through the body, and is important for digestion. A horse can drink from 4 to 15 or more gallons of water each day, depending on the weather, amount of work, and its age and size.

Horses have small stomachs and do best when fed a little at a time and often. After feeding, allow an hour for the horse to digest the food before exercising or working it.

To determine a correct proportion between hay and grain in your area, consult a veterinarian, horse nutritionist, or horse breeder. It is generally suggested that a horse doing light work (one to three hours daily) be fed 11/4 to 11/2 pounds of hay and 1/2 to 3/4 pound of grain per 100 pounds of weight. It is best to feed most of the hay (approximately two thirds) at night, and the rest in two small feedings during the day.

Horses working or exercising under saddle for five to eight hours a day need about 11/4 pounds of hay and 11/4 or 11/3 pounds of grain per 100 pounds of weight. It is best to divide the food into four feedings during the day.
Feed Me

Approximate amount of feed (hay and grain) per day can be determined by the size of the horse and its working conditions. If the horse is healthy, stabled, and not exercising, hay might be all it needs. Consult a veterinarian, horse nutritionist, or horse breeder to help you determine a proper feeding schedule.

<table>
<thead>
<tr>
<th>Horse’s Size</th>
<th>Amount of Feed Per Day</th>
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<tbody>
<tr>
<td>Under 12 hands*</td>
<td>14 to 16 pounds</td>
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<tr>
<td>12 to 13 hands</td>
<td>16 to 18 pounds</td>
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<tr>
<td>13 to 14 hands</td>
<td>20 to 22 pounds</td>
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<td>14 to 15 hands</td>
<td>22 to 24 pounds</td>
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<tr>
<td>15 to 16 hands</td>
<td>24 to 26 pounds</td>
</tr>
<tr>
<td>Taller than 16 hands</td>
<td>26 to 28 pounds</td>
</tr>
</tbody>
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*A hand is a unit of measure equal to 4 inches.

Feeding Tips

- Clean feed boxes regularly to keep them free of moldy feed.
- Use only clean, bright, sweet-smelling hay.
- Avoid hand-feeding, which can lead to nipping and charging.
- Remember that mares with nursing foals need more protein than other mares, and young horses usually need more protein than older horses.
- Do not store more than a two-week supply of processed grain, and keep feed covered to avoid contamination with rodent feces.

Horses need a constant supply of salt, which can be provided by a salt lick block or by spreading loose, trace mineral-type salt in a shallow box. If you need to change the horse’s diet, do so gradually to give its system time to adjust.

Horses left to pasture spend much of their time grazing on grass. They often have to eat a lot of grass to gain enough nutrients. If the pasture grass is poor in nutrients and vitamins, concentrated feed mix can help provide a more balanced diet.
Ready to Ride

Learning how to handle a horse is just as much a part of riding as being in the saddle. A good horseman needs to learn how to catch, lead, turn, back, saddle, and bridle a horse.

Catching a Horse

When you first try to catch a horse, have a more experienced person help you. Walk slowly toward the horse at an angle while talking gently to let the horse know you are there.

Consider renting a good lesson horse by the hour to learn how to ride and perform other merit badge requirements.

Do not chase the horse if it runs. Continue walking slowly toward the horse without looking directly at it, keeping your halter or lead rope draped over your left arm. If the horse does not let you get close, try standing still. It might get curious and come to you. Approach from the left because that is where you will always saddle the horse and mount it.

Haltering

Before approaching a horse, unbuckle the halter and attach the rope to it. Lead ropes are about 5 feet long and \( \frac{3}{4} \) inch in diameter with a spring or trigger clip on one end, which attaches to the halter.

Never approach a horse from behind or unannounced.
A correctly adjusted halter should fit snugly, with the noseband 2 inches below the bony point of the horse's cheek. If the noseband is too low, it could damage fragile nasal bones and tissues. If the halter is too loose, it will slide around and could come off. You should be able to fit two fingers between the horse and the noseband.

**Step 1** — Approach the horse from the left shoulder. Talk to the horse gently and reassuringly.

**Step 2** — Rub the horse's shoulder, then slip the lead rope under the horse's neck with your left hand. Put your right hand over the horse's neck and take the rope from your left hand.

**Step 3** — Hold the rope together in your right hand to help restrain the horse. Have the rope and halter strap in your left hand and the halter buckle in your right hand.

**Step 4** — Position the noseband so that the horse's nose will slide into it. Then raise the halter into position.

**Step 5** — Position the halter strap over the horse's head, just behind the ears, then fasten the buckle. Remove the loop of rope from around the neck.

To remove the halter, release the buckle. The halter then can be slipped forward over the nose and removed. When storing the halter, do not let it dangle near the floor where you or the horse might trip on it.

**Leading**

Once the horse is haltered, stand on the near side. Take the lead rope in your right hand, right beneath the jaw. Hold the slack folded in your left hand with your fingers around the outside of the rope.

Position yourself at the horse's shoulder and face forward. Now you can guide the horse forward using the lead rope. With your right arm near or against the horse's shoulder, you can feel its actions and anticipate its moves. Look where you are going (not at the horse) and keep a decent pace, but do not rush the horse. If the horse tries to get ahead of you, tug lightly a couple of times on the lead rope to slow it down. If the horse tries to change ahead, circle the horse around you, using your elbow in its neck if necessary.

Walk calmly but decisively. When you change directions, always turn to the right. A trained horse might need only a touch on the neck to move to the right. Otherwise, you might have to straighten your right arm and push the horse's head or neck.

Always maintain your position at the horse's shoulder. Slow your pace when you want the horse to slow down, and gently pull on the lead rope.

Before entering a narrow opening such as a doorway, stop the horse. If necessary, increase the tension on the lead to increase your control. Walk through the door in front of the horse. If the horse starts to rush through and you cannot hold it back, do not try to pass it. Stand still. Turn to face the horse's shoulder, even if you have to let the horse loose. To avoid this situation, be sure you have trained long enough so that you can control the horse before trying to lead it through a door or gate.
Tying

When you tie a horse, use a strong lead rope; do not use reins. Make sure to tie the horse in a safe place away from other horses, barbed wire, machinery, movable equipment, and other such objects. Use a quick-release knot so that it can be undone with one tug of the free end in case of emergency.

The tying point should be as high as the horse’s head and above the height of its withers. If the tie is low or slips down a pole, the horse could get tangled in the rope. Also, do not use a long rope; the horse could step on it, trip, or get tangled. Mind the saying, “Eye high and arm long,” when tying a horse.

Saddling

Whether saddling a horse with a Western or an English saddle, you will follow certain procedures. You might need help controlling the horse the first few times you attempt saddling. Halter the horse and tie it using a quick-release knot. Then brush the horse to remove any caked dirt, remembering its belly and brisket area. Talk to the horse reassuringly.

Step 1—Shake out the saddle blanket or pad. (Because they are easily frightened, do not do this with the horse nearby.) Inspect it carefully, removing any objects that might cause discomfort, such as burrs.

Step 2—Approaching the horse from the near (left) side, place the blanket or pad well up on the withers and then drag it back a few inches to smooth down the hairs.

Step 3—Balance the blanket or pad evenly on the horse. Make sure there are no wrinkles.

Step 4—Before placing a saddle on the horse’s back, lay all of the dangling pieces such as the stirrups, cinch, and latigo over the top of the saddle to prevent them from hanging on the horse’s side and startling it. On an English saddle, run the stirrup irons up the stirrup leathers, or cross them securely over the top of the saddle. On the Western saddle, lay the cinches, the right stirrup, saddle strings, and other rigging over the seat.

Step 5—Place your left hand in the saddle gullet and the right hand on the rear skirts. On English saddles, and on Western saddles with a Cheyenne roll on the cantle, grasp the cantle with the right hand. Lift the saddle slowly and high enough so that the flaps do not brush against the horse, and place the saddle gently near the horse’s withers.

Step 6—Slide the saddle backward until it sits just behind the withers. Be careful to properly place the saddle on the horse’s back, because if it is too far back over the soft part of the horse’s back, it can cause kidney problems or back pain. If it is too far forward, it will restrict the horse’s shoulder movement.

Step 7—Reach under the pommel and lift the edge of the blanket slightly to give the horse some working space over the withers. An inch of blanket or pad should lie in front of the saddle.

Step 8—Slide both the pad and saddle into position, and make sure the saddle is level. Lift the pad well into the gullet or fork of the saddle. If the saddle pad has any tabs or straps to secure it to the saddle, attach them. Go to the right-hand side of the horse and secure the saddle pad on that side also. Then gently drop the girths or cinches, making sure they are not twisted. Pull out any saddle strings from under the saddle. On a Western saddle, gently put down the right stirrup. On an English saddle, leave the stirrup irons up until you are ready to mount.
Step 9—Return to the near side to cinch the horse. Do not fasten the girth too tightly at first because the horse will breathe in and puff out its chest when you first put on the saddle. After a couple of minutes, when the horse breathes out, you can tighten the girth more securely. The girth should fit snugly under the chest or “barrel” behind the horse’s elbows. You should be able to just slide your hand between the girth and the horse’s skin.

If the horse’s skin wrinkles under the girth, move the left foot forward with your toe. Or, pick up the left front foot firmly and pull it forward to get rid of the wrinkles. Some saddles will have a buckle guard fitted to the girth. Pull the buckle guard over the girth buckles to prevent rubbing.

Latigo Knot
On a Western saddle, the cinch is formed with a latigo knot.

*Step 1*—Loosely loop the latigo, or cinch strap, through the cinch ring and Dee ring twice.

*Step 2*—Pull the latigo out to the side, cross it over the looped latigo, put it up under the Dee ring and then out through the Dee ring.

*Step 3*—Place the latigo under the crossed-over section and pull it down.

*Step 4*—Pull up on the cinch and pull down on the end of the latigo to take up the slack and tighten the cinch.

To make sure the Western saddle fits, have an experienced rider mount the horse. With the horse mounted, three fingers should fit between the arch of the pommel and the horse’s withers. To make sure that the saddle tree is the correct width, put three fingers with a flat hand sideways between the saddle and the top of the horse’s shoulder. If your hand fits too loosely, the saddle tree is too narrow. If you have to squeeze your fingers, the tree is too wide.

With an English saddle, have someone sit in the saddle with their feet in the stirrups. Again, slide your fingers under the pommel. Three fingers should fit comfortably between the horse’s withers and the arch below the pommel. The saddle should not inhibit the horse’s shoulder movement. Then stand behind the horse and look under the saddle. You should see some light between the horse and the saddle when the horse’s head is down.

After you have checked that the girth is secure, adjust the stirrups before riding. An experienced horseman can show you how to adjust the stirrups to fit you.

Bridling
Bride a horse after saddling. Although the Western and English bridles differ somewhat, the procedure for bridling is basically the same.

*Step 1*—Gently talk to the horse while you approach from its left.

*Step 2*—Unfasten and repose the halter around the horse’s neck. This way, the horse remains tied while you work. Keep the reins over your left arm to keep them out from underfoot. Unbuckle the throatlatch and noseband, then put the reins over the horse’s head and neck.
Step 3—Hold the bridle with the bit in your left hand and the top of the bridle in your right hand. Guide the bit into the horse's mouth while gently pulling up on the bridle with your right hand. You might need to gently press the horse's gum at the gap between the teeth to get the horse to open its mouth.

Step 4—Continue to gently pull the bit over the horse's tongue by lifting the bridle with your right hand and guiding the bit with your left hand. Never force the shank of the bit between the horse's teeth. If you hurt the horse's gums, the horse might resist the next time you try inserting the bit.

Step 5—Use both hands to position the headpiece. Slide it over the horse's ears, one piece at a time, over the left ear first. Be careful not to pull on the ears.

Step 6—Pull the horse's forelock over the browband, and then check from the front to make sure the bit, noseband, and browband are level and not twisted. Check again to make sure the bit is over the tongue.

Step 7—Fasten the noseband, if your bridle has one, so that it fits snugly and inside the cheekpieces. You should be able to slip four fingers in the space between the throatlash and the horse's jaw. You should be able to place one finger between the noseband and the horse's nose, and two fingers under the browband.

Step 8—When putting on the bridle, keep your head clear to avoid being hit if the horse throws back its head. Before you fasten the buckles, check to see that the bit fits the horse's mouth. If there are two or three wrinkles at the corners of the horse's mouth, the bit is too high.

After the horse is saddled and bridled, lead the horse by holding the reins under the bit with your right hand. Hold the other end of the reins in your left hand so that you are leading the horse with both hands. The horse should move just by urging it with the weight of the reins. Do not tug.
Riding

Riding is basically a matter of balance and control. You will learn balance with practice, and control will come as you learn the proper riding techniques. Learning to ride correctly requires time and patience.

A good rider keeps arms and hands quiet, moving them only back, forth, or sideways—never up and down. Do not jerk the reins, and do not pull or tug very long or you could hurt the horse’s tender mouth.

Develop a soft, relaxed, give-and-take grip on the reins to help maintain easy contact with the horse’s mouth. When first learning to ride, let your hands follow the bobbing of the horse’s head by keeping your shoulders and elbows loose so they can “open” and “close” with the horse’s movements.

Even though a horse’s mouth is tender, it will resist your pull on the reins. Because a horse can pull harder than you can, it can develop a hard mouth—one that becomes insensitive—if you pull too hard or too long on the reins.

Western Horsemanship

Western riding probably originated with the arrival of Spanish conquistadors in the Americas in the early 1500s. But Western riding as it is practiced today developed on cattle ranches in the Western United States and Mexico.

As Western horse shows grew more popular, the style became standardized. Western-style riding includes trail; show classes, such as pleasure and reining; and competitions that include rodeo, cutting, barrel racing, and pole bending.

When learning Western and/or English riding, you will use aids such as your voice, legs, hands, weight, and reins to control your horse.
The obvious difference between Western and English riding is that in most Western show events, the reins are held in one hand only—the left hand. However, in classes for junior horses, rules allow for two hands with certain bits and bridles. Also, Western riders generally do not use their legs to maintain a gait. Judges look for slack in the reins, which makes it important to learn how to control your horse without tugging on the reins.

Western riders should sit tall in the saddle with head up, back straight, shoulders level and square, and feet deep in the stirrups with heels below the toes and knees slightly flexed. Ride relaxed, but alert.

Mounting

Step 1—Speak gently to the horse as you stand facing it on the left side, even with the saddle. Grasp the reins evenly in your left hand, short enough to stop the horse if it tries to move. Place your left hand firmly on the horse’s neck, just in front of the withers.

Step 2—Steady the stirrup with your right hand. Raise your left foot into the stirrup and brace your knee against the horse.

Step 3—With the foot well into the stirrup, take hold of the saddle horn with your right hand and spring straight up with your right foot until you are standing with your right foot even with the left. Lean forward just enough to keep your balance. Your left hand can rest on the horse’s neck.

Step 4—Swing your right leg over the saddle, being careful not to kick the horse. Ease lightly into the saddle.

Step 5—Place your right foot in the right stirrup. If the horse tries to move, hold it in check with the reins using your left hand. Hold the reins in your left hand just in front of the saddle horn. Rest the right hand on your thigh.

Dismounting

Step 1—Place your left hand, holding the reins, on the horse’s neck and grasp the saddle horn with your right hand. Lean slightly forward and shift your weight to the left stirrup.

Step 2—Swing your right leg backward over the saddle, again being careful not to hit the horse.

Step 3—Continue to step down, place your right foot on the ground, and remove your left foot from the stirrup. Practice so that you can mount and dismount in a smooth, easy movement.

The Gaits

Horses have four natural gaits—walk, trot, canter, and gallop—plus some specialized ones.

The walk is a four-beat gait in which the horse’s feet touch the ground in even intervals. To move into a walk, lean slightly forward in the saddle, from the hips up. Shift a little more of your weight to the stirrups and urge the horse forward with leg pressure. Hold the reins lightly and do not pull on the horse’s mouth. Keep your thighs and upper calves in close contact with the horse. Ride more forward and not with your seat on the cantle.

The trot is a two-beat diagonal gait where the opposite front and hind feet touch the ground together. To put your horse into a slow trot, take the slack out of the reins to prevent the horse from starting too fast, and lean a little farther forward. Putting a little more weight in the stirrups will help keep you from bouncing. To go into a fast trot, urge the horse to the desired pace by squeezing the horse with your legs and heels.

In Western riding, the jog or slow trot is ridden by absorbing the slight jar through your knees and back. With your legs slightly bent and your heels down, your knees and ankles act as shock absorbers. The fast trot, Western style, is ridden by standing slightly in the stirrups and resting your free hand on the saddle horn, if you need to, for balance.

The lope or canter is a rhythmic three-beat diagonal gait: (1) one hind foot hits the ground, then (2) the opposite front foot and the other hind foot hit the ground together, followed by (3) the other front foot. To canter from a walk, gather the horse slightly in the reins. Pull on the reins slightly to one side and press with the leg on the same side, then release the head. The sudden release and shifting your weight cause the horse to shift
Beginning English riders must learn to post while the horse trots. Posting is an up-down movement that makes the trot more comfortable.

its weight and step out on the foot you have indicated. The horse should break directly from a walk to a lope. Don't go into a canter from a trot, because the horse will learn to do that and will never be dependable at an extended trot.

To ride a canter, lean forward from the hips up without slumping in the saddle. Give your horse some slack in the reins but do not let them flop. Keep your elbows near your body at all times and not flapping up and down. Always keep your heels low.

The gallop is a series of four beats, but the sequence of footfalls will vary according to the speed. When the right foreleg leads, the sequence will be left hind leg, right hind leg, left foreleg, right foreleg. This will be followed by a full suspension when all four hooves are off the ground. In a gallop, lean slightly forward from the hips up and raise your seat slightly. This is a typical cue used to prompt a gallop.

Reining
In Western riding, horses are taught to turn by the weight of the rein against the neck. To turn left, move your rein hand to the left so that the right rein falls against the horse's neck. To go right, move your rein hand to the right.

English Horsemanship
The basics of riding are the same whether the style is Western or English. However, the styles have different traditions, equipment, and purposes. Also, English riding techniques involve coordinating the legs, reins, and balance to control the horse. The rider might not feel as secure in an English saddle as in the wider Western saddle, which has a saddle horn and a raised cantle and pommel.

Among the events in which English riders can participate include dressage, hunter or jumper, and eventing or combined training.

In dressage (pronounced dress-AHGE), horse and rider must perform a series of designated movements in an arena before judges. The goal is precision and harmony in movements. The hunter jumper course is an obstacle course over fences that the horse and rider must complete as faultlessly as possible. Eventing, or combined training, is a three-day triathlon for the horse-and-rider team. It combines the skills of dressage, cross-country, and jumping.

Holding the Reins
With a single-rein bridle (see 1), to hold the reins with both hands, each rein should come into your hand under the little finger and pass between the thumb and forefinger, continuing on over the thumb.

To use one hand (correctly, the left hand; see 2), the near-side rein should pass under the little finger and out through the thumb and forefinger. The offside should pass through the hand in the opposite direction, and on top of the near-side rein (in through the thumb and forefinger and out under the little finger).

With a double-rein bridle (see 2), to hold the reins with both hands, take the snaffle rein in your hands as described above for the single-rein bridle, leaving the bight of the curb rein on the horse's withers. Keep the snaffle rein in your hands, open up the forefinger and second finger on each hand and with them pick up the curb rein at about the same length as you are holding the snaffle rein. The curb rein should be just a little looser than the snaffle rein.

To pull the curb rein and loosen the snaffle rein, bend your hands down at the wrists toward the horse's withers, rolling the backs of the hands toward each other if necessary to maintain tension.

To hold double reins in one hand (see 4), the snaffle rein is held the same as for a single-rein bridle; the near-side curb rein should pass between the second and third finger and the off-side curb between the forefinger and second finger, crossing inside, the off side over the near side.
English riding clothes include breeches, which usually are made of stretch material and worn with riding boots; a sweater or thick shirt in cold weather; jodhpurs, which are worn with jodhpurs (pants made from two-way stretch materials that are longer than breeches); a hacking jacket; a tie or stock for hunting or hacking; a shirt with collar for showing; string or wool gloves; and a protective cap. English riders also carry a jumping, cross-country, or keeper whip to guide the horse using a slight tap; it is never used to discipline or hurt a horse.

**Mounting**

**Step 1**—Hold the left rein in the left hand. With the right hand, pull the right rein to take up the slack on the off side.

**Step 2**—With the left rein in the left hand, bring the hand up until it meets the right rein on the horse’s neck just in front of the withers. Take both reins in the left hand. The left rein should drop neatly alongside the shoulder of the horse, and where they will not catch in the stirrup.

**Step 3**—Open the fingers of the left hand enough to grasp a handful of the horse’s mane to help pull you up. Do not pull on the reins when you mount; it will hurt the horse’s mouth.

**Step 4**—Take the stirrup in your right hand and turn it toward you. Place the ball of your left foot in the stirrup, keeping your heel down.

**Step 5**—Grasp the cantle with your right hand. In a springlike movement from your right leg, push yourself up and stand straight with the right foot even with the left and your weight balanced over the horse’s back. Be sure not to jab the horse with your toe.

**Step 6**—As you stand in the left stirrup, your weight should be on your arms and left leg. Lean on your left arm and move your right hand from the cantle to the right-hand side of the pommel. At the same time, swing your right leg over the horse’s back, taking care to not kick the horse.

**Step 7**—Place your right foot in the right stirrup, settle gently into the saddle, and take the reins in both hands.

**Dismounting**

**Step 1**—Gather the reins in your left hand on the horse’s neck.

**Step 2**—Place your right hand on the pommel, then take your right foot from the stirrup and pass your right leg over the horse’s back without touching it.

**Step 3**—Shift your right hand to the cantle.

**Step 4**—Keeping your weight on your hands, take your left foot from the stirrup and drop lightly to the ground, sliding down the horse’s side.

**Position and Reining**

Keep your head up and eyes ahead. Your back should be straight, but not stiff. Keep your arms and hands flexible, and your elbows bent. The reins should be held evenly in each hand in front of the horse’s withers and about 2 inches apart.

Sit in the deep part of the saddle, not on the cantle. There should be enough space behind you for the width of your hand. Place the ball of each foot on the inside of the stirrup iron so that your feet are turned out slightly and your heels hang below your toes. Use your calves to apply pressure to signal the horse. Keep your elbows close to your sides.

Both hands hold the reins in English riding, and horses are trained to respond to direct pressure on the mouth. When using two reins (one pair), let them pass between the last two fingers of each hand, up from beneath your hands, and out between the thumb and first finger. Your thumbs should hold the reins in place. The loop that is formed falls over your hands, down to the horse’s right shoulder.

You can carry a crop, an English riding whip, when trotting or cantering. It is held in the right hand along with the rein. To use it, take both reins in your left hand and tap the horse briskly behind the girth.
The image contains a page from a book discussing horse riding. The text discusses various aspects of riding, including turning, stopping, riding the canter (English), posting the trot, and correcting poor habits.

**Turning**
When riding, always look in the direction you want to go. This includes turning. The slight change in your weight in the saddle helps the horse understand your requests. To turn left, move both hands slightly sideways to put pressure on the right side of the horse’s neck. Move the hands in the opposite direction to turn right. While walking the horse, practice turning in both directions, then circle the horse to the right and to the left.

**Stopping**
Learn how to stop your horse without jerking back or pulling too hard on the reins. This action can hurt your horse’s mouth, and it will cause the horse to begin resisting you.
To stop while English riding, sit down firmly in the saddle, and set your hands while not yielding to the horse’s head motion. Be firm on the reins, but gentle.

**Riding the Canter (English)**
Because of its easy rolling motion, the lope or canter is probably the most popular gait. At the canter, your hands continue to restrain too much forward movement while remaining easy on the horse’s mouth. Your weight should be more on your knees than heels. You rock gently forward and down as the horse moves away beneath you and rises again at the next stride. Once you have the feel of it, it is easy to relax and let your body follow the motion of the horse.

**Posting the Trot**
Once you have learned how to walk, turn, stop, and back your horse, you are ready to go to the trot. In English riding, you should learn to post. This is an up-down, up-down movement that makes the trot more comfortable for both you and the horse.
Shorten the reins, bend slightly forward, and use your legs or heels to urge your horse from a walk into a trot. For a moment just sit there, letting your knees and ankles absorb the shocks and jolts.
To post, use your thigh muscles to hold yourself in the air while the horse’s hooves strike the ground, thus avoiding the jolt. Then let yourself down until the horse’s leg action pushes you up again. Allow yourself to be “thrown” out of the saddle with each thrust of a hind leg, and to land back in the saddle at the instant of the next thrust. Repeat the motion in rhythm with the horse’s movement.
Don’t stand up in the stirrups or heave yourself out of the saddle. Let the horse do most of the work by giving the push while you help by holding yourself up momentarily with your leg muscles.
It will take practice. Most people find posting the most difficult part of English riding. The trick is to balance from your heels and knees. If your heels are well down and your weight forward, posting is simply a matter of rolling onto your knees and rising up and slightly forward about an inch out of the saddle.
You can throw your mount off balance if you post on the wrong diagonal. In a small circle at a fast trot you can throw your horse to the ground. Remember, post on the outside diagonal—the leg next to the rail in an enclosed area.
To change diagonals, as you would in a figure eight at the intersection of the two circles, don’t ride on the count. Instead, skip one beat and rise on the following count. You will then be on the opposite diagonal.

**Correcting Poor Habits**
To prevent a horse from developing and keeping poor habits, correct them as quickly as possible.
Do not let the horse head for the barn, stable, or its “home” every time it is near. Practice riding the horse in front of the stable or barn without letting it stop there. When you are ready to dismount, ride away from the barn, stop, dismount, and lead the horse back to the stable or barn.
When a horse attempts to bite, push it away and say “No!” in a firm voice. Praise the horse when it does not try to bite. If a horse bites, you need to find out why. It could be that the horse expects a treat. Restrict or quit giving treats, if this is the reason. A horse might bite during grooming or pinching if you are careless or too rough.
If a horse ever attacks with its teeth, do not attempt to deal with it. Seek the advice of a horse expert.
**Backing While Mounted**

Backing while mounted is helpful when you need to back up a few steps to get out of a tight spot on the trail. Walk your horse forward, gently but firmly restricting the motion so that your horse lifts its leg forward then drops it back because it cannot go forward without straining the rein. The horse should only back one, two, or three steps. Keep your horse quiet, calm, and straight while backing.

**Backing Up Straight**

As you teach your horse to move backward with a halter, remember that horses dislike moving backward. Your horse’s first reaction might be to raise its head and plant its hind feet. However, there is an effective way to teach your horse to back up.

**Step 1**—Stand on the left side of the horse, near the withers, with the lead rope in your right hand. Use the rope to bump the horse’s forefeet back while using your left hand to keep the horse’s nose straight. You might need someone else to help. Just move the horse back a step at a time while saying “back.” It might help to have the horse facing a wall so that it can’t go forward.

**Step 2**—If the horse won’t move, push the horse at the chest, where the muscles join. Apply pressure until the horse steps back. Then release and repeat.

As the horse learns to move back, touch it lightly on the chest less and less often until it backs with just the pressure from the halter rope or when you say “back.”

**Unsaddling**

After your ride, make sure the horse has cooled off and relaxed before taking it to the stable or barn. When you have stopped the horse, put it on the neck. Now dismount to the left, and lift the reins over the horse’s head.

After dismounting an English saddle, run the stirrups up the leathers, making sure they do not flop. Unhuckle the girth on the near (left) side of the horse and lay it over the seat.

On a Western saddle, lay the “left” stirrup over the saddle or hook the stirrup on the horn. Untie the latigo knot and completely release the cinch. Take the cinch (latigo) strap and wrap on the front D-ring a couple of times to ensure that it doesn’t drag on the ground. Move to the off (right) side of your horse and tie the cinch using the saddle strings or the cinch tab.

Place one hand on the pommel and the other hand on the cantle. Lift the saddle off the horse’s back and set the saddle on the ground. It is usually best to prop it against a wall with the pommel down.

Before taking off the bridle, strap a halter around the horse’s neck so that you can maintain control. Undo the noseband and the throatlatch from the bridle, and lift the headpiece and reins together over the ears. The bit will drop from the horse’s mouth when you do this.

Next, fasten the halter and tie the horse while you put your tack away.

There are two ways to carry a saddle. One way is to place it on your right arm with the pommel in the crook of your elbow and the cantle end in your left hand. The second is to put the headpiece of the bridle and the reins on your left shoulder. This will leave your hands free to carry the saddle.

Lastly, groom your horse and clean the tack.

**Stable Safety**

In case of an emergency, it’s important to keep certain items handy in the stable. Spotlights, flashlights, fire extinguishers, and ropes with easily loosened knots or snap fasteners all are items that may be necessary in an emergency.

**Fire Prevention Tips**

- Stable horses in a building separate from machinery, fuel, lubricants, paint, and fertilizers.
- Store feed and bedding in a building separate from where horses are stabled.
- Keep matches and flammable materials outside the stable area.
- Pile manure away from the stable because manure builds heat.
- Buy or store only well-cured hay and bedding. Damp grass is a hazard because it builds heat and might ignite by spontaneous combustion.
- Do not allow smoking in the stable area.
Horsemanship and You

By now you know what it takes to be a kind and responsible horseman. Just remember to practice your riding and handling skills slowly and methodically. As you do, you will notice that you become more comfortable and many of the skills will become second nature. If you are consistent with your handling and riding skills, you will be able to work with any kind of horse.

It is important to be respectful of horses' nature. Remember that they do not think like people do, but if you communicate with them in ways they understand, they make wonderful companions and riding partners. One of the most rewarding things about horsemanship is the deep and lasting trust you can have with your horse.

You might discover that you enjoy horsemanship enough to own your own horse or to compete in rodeos or jumping events. Whether you use your horsemanship skills for pleasure rides or competition, horsemanship is more than just riding a horse; it is a practice of respect for horses and your relationship with them.
Horsemanship Resources

Scouting Literature
Fieldbook, Animal Science, Manual Study, and Veterinary Medicine merit badge pamphlets

Visit the Boy Scouts of America's official retail website at http://www.scoutstuff.org for a complete listing of all merit badge pamphlets and other helpful Scouting materials and supplies.

Books


Magazines
Horse Illustrated
P.O. Box 8237
Lexington, KY 40533
Website: http://www.horsechannel.com/horse-magazines/horse-illustrated

Horse & Rider
Website: http://www.equiseum.com/horserider

Practical Horsemanship
Website: http://www.equiseum.com/practicalhorseman

Organizations and Websites
International Equestrian News Network
P.O. Box 227
Marshfield Hills, MA 02051
Telephone: 781-834-7137
Website: http://www.equestrian-times.com

National Reining Horse Association
3000 NW 10th St.
Oklahoma City, OK 73107
Telephone: 405-946-7400
Website: http://www.nrha.com

Pony of the Americas Club
3828 South Emerson Ave.
Indianapolis, IN 46203
Telephone: 317-788-0107
Website: http://www.poac.org

United States Dressage Federation
4051 Iron Works Parkway
Lexington, KY 40511
Telephone: 859-971-2277
Website: http://www.usdf.org

United States Equestrian Team Foundation
1040 Pottersville Road
P.O. Box 355
Gladden, NJ 08954-9955
Telephone: 908-234-1251
Website: http://www.usef.org

United States Eventing Association
525 Old Waterford Road NW
Leesburg, VA 20175
Telephone: 703-779-0440
Website: http://www.useventing.com

The United States Pony Clubs
4041 Iron Works Parkway
Lexington, KY 40511
Telephone: 859-254-7660
Website: http://www.ponyclub.org

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Horsemanship Resources

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Daniel Giles—cover (top left, center left), pages 4, 6, 22, 26, 30–33, 35–36, 38 (top), 41–42, 45, 50, 52, 54, 56 (both), 57 (both), 61–63 (all), 70 (both), 72, 74, and 76
John McDearmon—all illustrations on the cover and on pages 10–12, 20–21, 27–29, 36, 38–39, 49, 56, 60, and 69–70
Brian Payne—cover (bridle); page 34

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<table>
<thead>
<tr>
<th>Merit Badge Pamphlet</th>
<th>Year</th>
<th>Merit Badge Pamphlet</th>
<th>Year</th>
<th>Merit Badge Pamphlet</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Cultures</td>
<td>2005</td>
<td>Entrepreneurship</td>
<td>2006</td>
<td>Pioneering</td>
<td>2005</td>
</tr>
<tr>
<td>American Labor</td>
<td>2006</td>
<td>Family Life</td>
<td>2006</td>
<td>Plumbing</td>
<td>2004</td>
</tr>
<tr>
<td>Archaeology</td>
<td>2006</td>
<td>Fingerprinting</td>
<td>2005</td>
<td>Public Health</td>
<td>2005</td>
</tr>
<tr>
<td>Archery</td>
<td>2004</td>
<td>First Aid</td>
<td>2004</td>
<td>Public Speaking</td>
<td>2002</td>
</tr>
<tr>
<td>Art</td>
<td>2008</td>
<td>First Aid</td>
<td>2009</td>
<td>Radio</td>
<td>2008</td>
</tr>
<tr>
<td>Astronomy</td>
<td>2004</td>
<td>First Aid</td>
<td>2009</td>
<td>Railroading</td>
<td>2003</td>
</tr>
<tr>
<td>Athletics</td>
<td>2006</td>
<td>First Aid</td>
<td>2009</td>
<td>Reading</td>
<td>2003</td>
</tr>
<tr>
<td>Automotive Maintenance</td>
<td>2008</td>
<td>Fishing</td>
<td>2009</td>
<td>Repairs</td>
<td>2005</td>
</tr>
<tr>
<td>Aviation</td>
<td>2006</td>
<td>Forestry</td>
<td>2005</td>
<td>Amphibian Study</td>
<td>2005</td>
</tr>
<tr>
<td>Backpacking</td>
<td>2006</td>
<td>Gardening</td>
<td>2005</td>
<td>Bird Shooting</td>
<td>2001</td>
</tr>
<tr>
<td>Bird Study</td>
<td>2005</td>
<td>Geology</td>
<td>2005</td>
<td>Safety</td>
<td>2005</td>
</tr>
<tr>
<td>Bugling (use Music)</td>
<td>2008</td>
<td>Golf</td>
<td>2002</td>
<td>Salesmanship</td>
<td>2003</td>
</tr>
<tr>
<td>Camping</td>
<td>2005</td>
<td>Graphic Arts</td>
<td>2006</td>
<td>Scholarship</td>
<td>2004</td>
</tr>
<tr>
<td>Canoeing</td>
<td>2004</td>
<td>Home Repairs</td>
<td>2007</td>
<td>Scuba Diving</td>
<td>2005</td>
</tr>
<tr>
<td>Chemistry</td>
<td>2004</td>
<td>Horsemanship</td>
<td>2005</td>
<td>Sculpture</td>
<td>2009</td>
</tr>
<tr>
<td>Cerimography</td>
<td>2008</td>
<td>Indian Lore</td>
<td>2002</td>
<td>Skiing</td>
<td>2005</td>
</tr>
<tr>
<td>Citizenship in the Community</td>
<td>2005</td>
<td>Insect Study</td>
<td>2005</td>
<td>Small-Boat Sailing</td>
<td>2004</td>
</tr>
<tr>
<td>Climbing</td>
<td>2006</td>
<td>Law</td>
<td>2003</td>
<td>Conservation</td>
<td>2004</td>
</tr>
<tr>
<td>Coin Collecting</td>
<td>2008</td>
<td>Leatherwork</td>
<td>2002</td>
<td>Space Exploration</td>
<td>2004</td>
</tr>
<tr>
<td>Collections</td>
<td>2008</td>
<td>Lifesaving</td>
<td>2006</td>
<td>Sports</td>
<td>2008</td>
</tr>
<tr>
<td>Communication</td>
<td>2009</td>
<td>Mammal Study</td>
<td>2003</td>
<td>Stamp Collecting</td>
<td>2007</td>
</tr>
<tr>
<td>Composite Materials</td>
<td>2005</td>
<td>Medicine</td>
<td>2009</td>
<td>Surveying</td>
<td>2004</td>
</tr>
<tr>
<td>Cooking</td>
<td>2007</td>
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