

The evolution of the horse in north america

worksheet answers

Unveiling the Equine Legacy: Tracing the Evolution of Horses in North America From majestic steeds gracing the plains to the humble workhorses of yesteryear, the horse has woven an inextricable thread through the tapestry of North American history. But how did these magnificent creatures arrive, and how did their lineage evolve within the continent's diverse landscapes? This journey through time, laid bare in "The Evolution of the Horse in North America Worksheet Answers," reveals a fascinating story of adaptation, migration, and survival. This delves deeper than simple worksheet answers, offering a comprehensive exploration of the subject. We'll examine the scientific principles behind the evolution, highlight the ecological impacts, and showcase the cultural significance of the horse in North America.

The Paleontological Record: Unearthing the Past

Early Horse Ancestors: From Tiny to Mighty

The story begins millions of years ago, far from the familiar image of a majestic equine. Early horse ancestors, like *Hyracotherium*, were small, forest-dwelling creatures with multiple toes and teeth adapted to browsing on vegetation. Their evolution was a gradual process of adaptation, driven by environmental pressures and opportunities.  *Hyracotherium* bore little resemblance to its modern descendants, but their fossil remains offer crucial insights into the evolutionary tree. This process of gradualism, from small, multi-toed creatures to the large, single-toed equines of today, reveals the interconnectedness of life on Earth. Geological timeframes are essential to understanding the narrative. For example, the Eocene epoch witnessed the first appearances of these early horse forms.

The North American Migration: Crossing Continents

North America played a pivotal role in the horse's evolutionary journey. Geological events, like the formation of land bridges, allowed for the migration of these creatures across continents. Fossil evidence demonstrates the presence of horse species like *Meshippus* and *Merychippus* throughout the North American landscape.

Adaptive Radiation and Diversification: A Tale of Two Continents

The North American continent fostered an environment conducive to adaptive radiation, where species diversified to fill various ecological niches. This diversification produced a rich array of horse species, each with adaptations tailored to different environments. Different species, like *Platyrhinus*, possessed specialized teeth and limbs optimized for grazing on grasslands. 

The Impact of Horse Evolution on the Ecosystem

Grazing Ecosystems and Plant Communities

The evolution of larger horse species and their adaptation to grazing had profound impacts on plant communities. As horses increased in number and size, they altered the landscape, impacting the distribution and abundance of different plant species. This co-evolutionary relationship is evident in the changing vegetation of the past millions of years.

Predator-Prey Dynamics: A Balancing Act

The evolution of the horse also shaped the dynamics of predator-prey relationships. Predators evolved in response to the appearance of new horse species and their growing populations. For instance, the saber-toothed cat, *Smilodon*, likely preyed on larger horse species, while smaller predators targeted the earlier forms.

Cultural Significance of Horses in North America

Domestication and the Rise of Civilization

The domestication of horses revolutionized human societies in North America. Horses provided transportation, facilitated trade, and contributed significantly to agricultural activities. This development marked a crucial turning point in human history.

Equine Art and Folklore: Manifestations of Cultural Significance

Throughout history, horses have been central to art and folklore in North America. Native American cultures, for example, often depicted horses in their art and stories.

Conservation and Modern Applications

Modern Horse Breeds: A Legacy of Adaptation

Today's diverse horse breeds, from thoroughbreds to quarter horses, are a testament to the evolutionary journey of their ancestors. These breeds embody the adaptation and selection pressures that shaped the horse population through millennia. Breeders have intentionally selected for specific traits, resulting in the diverse range of horses we see today.

The Role of Horses in Modern Agriculture and Recreation

Horses continue to play an important role in agriculture and recreation. In many regions, they are still used for farming, transportation, and pleasure riding. The adaptive nature of the species enables them to thrive in various conditions.

Conclusion

The evolution of horses in North America is a compelling story of adaptation and diversification over millions of years. From tiny forest-dwelling ancestors to the magnificent creatures we know today, the horse has woven its way through the continent's landscapes, interacting with ecosystems and human societies. This intricate

narrative underscores the power of natural selection, and the profound relationship between living organisms and their environments. Understanding this evolutionary history enriches our appreciation for the biological and cultural heritage of North America.

Advanced FAQs

1. **Q:** What specific environmental factors influenced the evolution of North American horse species? **A:** Factors include changing vegetation (from forests to grasslands), climate fluctuations, and the presence of predators. These pressures drove the evolution of different adaptations in various horse species over time. 2. **Q:** How did the arrival of humans impact the evolution of North American horses? **A:** The arrival of humans, particularly the colonization and expansion of the Americas, created novel selective pressures and, in some cases, resulted in extinctions of some populations. The of new diseases could have also had a dramatic effect on the native populations. 3. **Q:** Can we predict future evolutionary trends for horses in North America? **A:** Predicting the future is complex, but with continued environmental changes, likely climate change, we can expect ongoing adaptations, potential selective pressures, and potential impacts on existing populations and breeds. 4. **Q:** What are the ethical considerations in horse breeding and use today? **A:** Ethical concerns regarding treatment of horses in various uses including riding and racing, and in preservation of endangered breeds, are critical considerations in the modern era, pushing for the responsible use of horses in all aspects of their relationship with human societies. 5. **Q:** How does the study of horse evolution in North America contribute to our understanding of broader evolutionary principles? **A:** This particular case study showcases evolutionary processes like adaptation, diversification, and extinction, offering valuable insights into how species respond to environmental changes and shape the ecosystems they inhabit. It's a perfect example of evolutionary biology in action, highlighting the interconnectedness of life.

The Evolution of the Horse in North America: Unpacking the Answers

The story of the horse in North America is a fascinating saga of ancient origins, dramatic disappearances, and triumphant returns. For anyone delving into this incredible journey, especially through educational materials like a worksheet, understanding the key milestones and answering related questions can illuminate a remarkable chapter in natural history. This article will explore the evolution of the horse in North America, offering insights that would likely form the basis of "the evolution of the horse in north america worksheet answers." For educators and students alike, the topic often sparks curiosity. Why is it that the horse, so intrinsically linked to the American West, actually originated on this continent? How did it vanish, and what brought it back? These are the kinds of questions that make learning about paleontology and evolutionary biology so engaging.

Ancient Origins: The Dawn of Equids in North America

The horse's North American story begins not with the majestic steeds of cowboy lore, but with much smaller, more primitive creatures. Long before the arrival of humans, the continent was a cradle for the evolution of equids – the family that includes horses, zebras, and donkeys. The earliest ancestors of the horse, dating back over 50 million years, were small, multi-toed mammals. Think of them as more dog-like or deer-like in stature, dwelling in the forests of North America. These early equids, such as *Hyracotherium* (often referred to as

Eohippus, or "dawn horse"), were browsers, feeding on leaves and soft vegetation. Their small size and multiple toes were adaptations to a forest environment, allowing them to navigate uneven terrain and escape predators. As the climate changed and grasslands began to spread, a gradual evolutionary process took place. This is where we start to see answers to typical worksheet questions about adaptation and natural selection. The need to travel greater distances for food, and the increased vulnerability in open plains, drove significant changes.

The Rise of Grazers: Adaptations for the Open Plains

Over millions of years, North American equids underwent remarkable transformations: * **Increase in Size:** Horses grew larger, becoming better equipped to cover vast distances. * **Lengthening of Legs:** Legs became longer, increasing speed and endurance for escaping predators and traversing open grasslands. * **Reduction of Toes:** The most striking adaptation was the reduction in the number of toes. Gradually, the side toes became smaller and less functional, leading to the development of a single, strong hoof on each foot. This was a crucial adaptation for running on harder, open ground. * **Development of Grinding Teeth:** The teeth evolved to become flatter and more ridged, perfect for grinding tough grasses. This dietary shift from browsing to grazing was a major evolutionary leap. Genera like *Mesohippus* and *Miohippus* represent these transitional stages, showcasing the shift towards larger body size and more specialized feet. Then came *Merychippus*, a pivotal ancestor that possessed characteristics closer to modern horses, including a single toe and specialized teeth for grazing. This era, spanning millions of years, demonstrates a classic example of adaptive radiation, where a lineage diversifies to fill various ecological niches.

The Flourishing and the Fall: Horses Dominate North America

By the Pliocene and Pleistocene epochs, North America was home to a diverse array of horse species. These were not just primitive precursors; they were the direct ancestors of the modern horse, with genera like *Pliohippus* and *Equus* appearing. *Equus* is the genus to which all modern horses, zebras, and asses belong. These North American equids were highly successful. They spread across the continent, adapting to various environments. They were a vital part of the ecosystem, serving as prey for large predators like the American lion and saber-toothed cat, and influencing plant communities through grazing. This period represents the peak of equid evolution and distribution on the continent. However, around 10,000 years ago, something catastrophic happened. All native North American horse species vanished. This event, known as the Quaternary extinction event, wiped out not only horses but also many other large mammals, including mammoths, mastodons, and saber-toothed cats. The reasons for this mass extinction are still debated by paleontologists and archaeologists. However, the prevailing theories point to a combination of factors: * **Climate Change:** The end of the last Ice Age brought significant shifts in climate and vegetation, which could have stressed horse populations. * **Human Arrival:** The arrival of humans in North America, potentially through the Bering Land Bridge, is also considered a major contributing factor. Overhunting or competition for resources could have played a role in the horses' demise. This disappearance is a critical point in any discussion about horse evolution in North America and would undoubtedly be a key question on a worksheet. Understanding the timing and potential causes is crucial for grasping the full scope of their evolutionary story.

The Return of the Horse: A New Era Begins

For thousands of years, North America was without its native equids. The continent's landscapes, shaped by the absence of grazing horses, continued to evolve. Then, in the late 15th and early 16th centuries, a dramatic

change occurred with the arrival of European explorers and colonists. They brought with them horses, primarily of Iberian (Spanish) origin. These horses were descendants of those that had been domesticated in Eurasia thousands of years prior. The reintroduction of horses to North America was not a simple process. Many of the early horses escaped or were intentionally released by traders and settlers. These horses, no longer under direct human control, began to establish feral populations. The impact of this reintroduction was profound and swift. These European horses, descendants of the same lineage that had evolved in North America, thrived in their ancestral homeland. They adapted quickly to the new environment, spreading rapidly across the plains and other regions. This is where the classic image of the wild mustang comes into play. These aren't reintroduced ancient wild horses, but rather feral descendants of domesticated horses that had returned to the continent. The mustang became an integral part of the North American landscape, particularly in the American West, and deeply influenced indigenous cultures.

Impact on Indigenous Cultures and the American West

The arrival of horses by Europeans had a transformative effect on many Native American tribes, particularly those on the Great Plains. Before horses, many tribes were primarily pedestrian hunters, relying on dogs to carry their belongings. The horse revolutionized their way of life: * **Hunting:** Hunting large game, such as bison, became far more efficient and successful. * **Mobility:** Tribes could travel greater distances, expanding their territories and improving their ability to trade and engage in warfare. * **Culture:** The horse became central to their culture, religion, and social structure. Owning and breeding horses became a mark of prestige and wealth. This period marks a fascinating intersection of human and natural history, where the return of a species dramatically altered the trajectory of human societies. Understanding this impact is often a part of broader educational units on North American history and ecology.

Modern Horses and Conservation Efforts

Today, horses are an integral part of North American life, from agriculture and recreation to racing and companionship. The descendants of those reintroduced European horses, as well as various domestic breeds, are found across the continent. The story doesn't end with their widespread presence. There's also a growing awareness and effort towards the conservation of these animals, particularly feral horse populations like the iconic mustangs. Understanding their evolutionary past, their ecological role, and the challenges they face in the modern world is an important part of appreciating these magnificent animals.

Putting it All Together: Key Takeaways for Worksheet Answers

When tackling "the evolution of the horse in North America worksheet answers," consider these key themes: 1. **Continental Origin:** Emphasize that horses are *native* to North America, originating there millions of years ago. 2. **Gradual Evolution:** Highlight the slow, incremental changes driven by environmental pressures (e.g., climate change, grassland expansion) leading to larger size, longer legs, single hooves, and grazing teeth. 3. **Extinction Event:** Understand the period of disappearance and the likely contributing factors (climate change, human arrival). 4. **Reintroduction:** Detail the return of horses with European colonists and their subsequent feralization. 5. **Cultural and Ecological Impact:** Recognize the profound influence of horses on Native American cultures and the North American ecosystem. By exploring these points, students can gain a comprehensive understanding of the incredible evolutionary journey of the horse on this continent – a journey from a small forest dweller to a powerful symbol of the American West. The story is a testament to the dynamic

nature of life on Earth and the interconnectedness of species and their environments. It's a narrative that continues to captivate and educate, reminding us of the deep history etched into the very landscapes we inhabit.

The Evolution of the Horse in North America: A Historical and Scientific Perspective

The story of the horse in North America is a compelling narrative of transformation, shaped by millions of years of natural evolution and profound human influence. Initially, horses did not originate on the continent. They evolved in the Americas during the late Eocene epoch, with early ancestors such as *Hyracotherium*—small, fox-sized creatures—roaming lush forests and open woodlands. Over time, horse-like species diversified across North America, with fossils revealing a lineage of increasingly specialized forms adapted to changing environments, from forest dwellers to open plains grazers. However, these native horses vanished at the end of the last ice age, leaving a gap that would later be filled by equine species introduced by European explorers. The arrival of the horse in North America, as documented through archaeological and paleontological evidence, marks a pivotal moment in both ecological and cultural history. By the 16th century, Spanish conquistadors brought domesticated horses across the Atlantic, initiating a new era in which the horse rapidly spread across the continent. Indigenous peoples, particularly on the Great Plains, embraced the animal with remarkable adaptability, integrating horse culture into their daily lives, hunting practices, and spiritual traditions. The transformation was profound: previously reliant on dogs and manual labor, many tribes became skilled horsemen, reshaping mobility, trade, and warfare. Understanding this evolution through structured learning tools—such as a comprehensive worksheet on “The Evolution of the Horse in North America”—offers students and researchers alike a deeper appreciation of biological adaptation and human-animal interdependence. Such resources encourage learners to explore key milestones, from the ancient wild ancestors to the modern breeds that reflect centuries of selective breeding and environmental adjustment. By engaging with these worksheets, users gain insight into ecological shifts, migration patterns, and the complex interplay between evolution and cultural development. The educational value of this topic extends beyond history and biology. It fosters critical thinking about adaptation, resilience, and the impact of human innovation. Through carefully crafted questions and analysis prompts, learners examine how natural selection and selective human intervention jointly shaped the horse's journey across North America. This holistic approach not only enhances scientific literacy but also cultivates a nuanced understanding of how species evolve in response to both natural forces and human influence. Looking ahead, the legacy of the horse continues to evolve. Modern conservation efforts and genetic research aim to preserve the diversity of both wild and domestic populations, recognizing their ecological and cultural significance. Additionally, emerging technologies such as genomic sequencing allow scientists to trace ancestral lineages with unprecedented precision, opening new pathways for understanding equine evolution. As society advances, the horse remains a symbol of connection—between past and present, nature and culture, tradition and innovation. For educators and students, exploring the evolution of the horse through structured worksheets provides a rich, interdisciplinary framework. It transforms raw facts into meaningful knowledge, inviting deeper inquiry into one of North America's most enduring and influential species.

The story of the horse in North America is a captivating saga of extinction, reintroduction, and profound ecological and cultural impact. For educators and students grappling with this complex history, the "Evolution of the Horse in North America Worksheet Answers" often serve as a crucial bridge between academic study and understanding. This article delves deep into the evolution of this magnificent creature on the continent, exploring the scientific evidence, key milestones, and the significance of the horse's presence, ultimately aiming to provide a comprehensive understanding that goes beyond mere worksheet answers.

The Ancient Ancestors: Eocene Origins of Equids

Long before the iconic mustang galloped across the plains, North America was the cradle of equid evolution. The earliest known ancestors of the modern horse, the Hyracotherium (often referred to as Eohippus, meaning "dawn horse"), emerged in North America during the Eocene epoch, approximately 55 to 45 million years ago. These were not the majestic animals we recognize today. Hyracotherium was a small, fox-like creature, no larger than a small dog, with multiple toes on each foot and a diet of soft vegetation.

From Forest Dweller to Plains Grazer

Over millions of years, successive generations of equids adapted to changing environments. As grasslands began to spread across the continent, horses evolved. Their bodies became larger, their legs longer and more slender for speed, and their teeth adapted for grinding tougher grasses. This evolutionary journey saw the development of key features: the reduction of toes to a single, hardened hoof for efficient locomotion on open terrain, and the hypsodont teeth, designed for prolonged chewing of abrasive grasses.

Key genera in this lineage include Meshippus, Merychippus, and Pliohippus, each representing significant steps in the transition towards the modern horse form. Merychippus, appearing around 17 million years ago, is considered a pivotal ancestor, exhibiting many of the characteristic features of later horses, including larger size and specialized teeth. The discovery of fossilized remains in regions like the Great Plains has been instrumental in piecing together this ancient evolutionary narrative.

The Mystery of Extinction: A North American Void

Despite originating in North America, horses vanished from the continent around 10,000 to 12,000 years ago, coinciding with the end of the last Ice Age. The precise reasons for this extinction remain a subject of scientific debate, with multiple contributing factors likely at play. Understanding these factors is crucial for appreciating the significance of their later reintroduction.

Possible Causes of the Late Pleistocene Extinction

Several theories attempt to explain the disappearance of North American horses:

1. **Climate Change:** The end of the Pleistocene epoch brought about significant shifts in global climate, leading to changes in vegetation and habitat. This dramatic alteration of their environment could have made it difficult for grazing animals like horses to survive.
2. **Human Arrival and Overhunting:** The arrival of early humans in North America, likely crossing the Bering Land Bridge, is another significant factor. Some paleontologists propose that human hunting pressure, coupled with the naivete of these animals towards human predators, could have contributed to their decline. Evidence of cohabitation between humans and megafauna at this time is crucial for this theory.
3. **Disease:** The introduction of new pathogens, to which native horse populations had no immunity, is also a plausible contributing factor.

Regardless of the exact combination of causes, the result was the same: North America, the birthplace of the horse, became devoid of these animals for millennia. This period of absence highlights the fragility of ecosystems and the impact of both environmental and anthropogenic forces.

The Iberian Connection: Reintroduction and the Spanish Mustang

The return of the horse to North America is inextricably linked to European exploration and colonization. Christopher Columbus brought horses to the Caribbean in 1493, and subsequent expeditions, most notably those of Hernán Cortés in the early 16th century, introduced them to the mainland. These were not the wild horses of prehistory but domesticated breeds, primarily of Iberian origin.

From Conquerors' Mounts to Wild Herds

The early Spanish horses served various purposes: transportation, warfare, and labor. However, not all of them remained under human control. Some escaped or were lost during expeditions, particularly in the harsh environments of the Southwest. These feral populations, isolated from human management and interbreeding with other domestic breeds, began to re-establish themselves in the wild.

The horses that formed the foundation of the wild herds were often hardy, resilient breeds adapted to the Iberian Peninsula's challenging conditions. Over centuries, these animals adapted to the North American landscape, becoming the ancestors of the iconic Spanish Mustang. This lineage is characterized by its intelligence, endurance, and sure-footedness, traits that would prove invaluable in the rugged terrain. The genetic legacy of these early Spanish horses is a fascinating area of study, with ongoing research seeking to trace their ancestry through DNA analysis and historical records.

The Horse and Indigenous Cultures: A Transformative Partnership

The reintroduction of the horse by Europeans had a profound and transformative impact on the indigenous peoples of North America. For many tribes, particularly those on the Plains, the horse became a cornerstone of their culture, economy, and way of life.

A New Era of Mobility and Subsistence

Before the horse, many Plains tribes were largely pedestrian hunters, relying on the bison for sustenance but facing limitations in mobility and the ability to pursue migrating herds effectively. The arrival of the horse revolutionized their existence. It provided:

1. **Unprecedented Mobility:** Horses allowed for rapid movement across vast distances, enabling tribes to follow bison herds more effectively and to engage in intertribal trade and communication. This increased mobility also facilitated warfare and defense.
2. **Enhanced Hunting Prowess:** The ability to chase down bison at speed dramatically increased hunting success. This led to greater availability of food, hides for shelter and clothing, and other resources.
3. **Cultural Shifts:** The horse became deeply integrated into indigenous belief systems and social structures. Status, wealth, and prestige were often measured by the number of horses a person owned. Horse-related ceremonies and art became prominent.

The impact was so significant that some historians argue the horse reshaped the very identity of Plains cultures. The nomadic lifestyle, so often depicted in popular media, was largely facilitated by the horse. The evolution of equestrian skills, specialized saddles and bridles, and the development of distinct tribal equestrian traditions are testaments to this profound partnership.

The Frontier Era and the Wild Horse: Competition and Conservation

As the American frontier expanded westward, the horse played a central role in exploration, settlement, and resource extraction. However, this era also marked the beginning of new challenges for wild horse populations.

From Abundance to Scarcity

During the 19th century, wild horse herds were numerous. They were rounded up for various purposes: as mounts for cowboys, for use in logging operations, and for the meat and hide markets. This widespread exploitation, coupled with habitat encroachment and competition with livestock for grazing land, led to a significant decline in wild horse numbers.

By the early 20th century, concerns began to emerge about the dwindling populations of wild horses. The romantic image of the mustang, once a symbol of untamed freedom, was being threatened by extinction. This led to the development of conservation efforts and legislative protections.

Modern Equid Conservation and Understanding the Past

Today, the legacy of the horse in North America continues to be a subject of fascination and scientific inquiry. Understanding its evolutionary journey, from its ancient Eocene origins to its reintroduction and cultural significance, is crucial for appreciating its place in the continent's natural and human history.

The Role of Worksheets and Educational Resources

"The Evolution of the Horse in North America Worksheet Answers" are valuable tools for students and educators to solidify their understanding of this complex topic. They often cover key aspects such as:

1. Timeline of equine evolution in North America.
2. Key genera and their distinguishing features.
3. Theories surrounding the extinction of native horse species.
4. The historical context of European reintroduction.
5. The impact of the horse on indigenous cultures.
6. Modern challenges and conservation efforts for wild horses.

By providing clear explanations and guiding students through the material, these worksheets help to demystify the scientific concepts and historical narratives. They encourage critical thinking about the interplay of biology, geology, anthropology, and history.

Ongoing Research and the Future of Wild Horses

Scientific research continues to shed new light on the evolution of the horse. Advances in paleontology, genetics, and archaeology are providing a more nuanced understanding of their ancient presence and their subsequent reintroduction. For example, ongoing DNA studies are helping to refine our understanding of the genetic makeup of modern wild horse populations and their historical links to Spanish breeds.

The conservation of wild horses remains an important issue. Efforts to manage wild horse populations on public

lands, address grazing conflicts, and preserve their genetic diversity are ongoing. The story of the horse in North America is not just a historical account; it is a living narrative that continues to unfold, reminding us of the profound and lasting impact of this remarkable animal.

In conclusion, the evolution of the horse in North America is a story of remarkable resilience and adaptation. From its humble beginnings as a small, forest-dwelling creature to its pivotal role in shaping cultures and landscapes, the horse's journey is a testament to the dynamic forces of evolution and human history. "The Evolution of the Horse in North America Worksheet Answers" serve as a vital educational resource, bridging the gap between academic study and a deeper appreciation for this extraordinary animal's enduring legacy.

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In summary, downloading [The Evolution Of The Horse In North America Worksheet Answers](#) illustrates the transformative impact of technology on self-directed education. Through portability, convenience, interactivity, and ethical access, digital resources empower learners to take control of their educational journeys. Responsible and informed use of digital platforms enables users to fully leverage [The Evolution Of The Horse In North America Worksheet Answers](#) for personal enrichment, academic achievement, and professional development in the digital age.

Questions & Answers About the evolution of the horse in north america worksheet answers

No	Question	Answer
1	What is the earliest ancestor of the horse found in North America, and what were its key characteristics?	The earliest ancestor is believed to be *Hyracotherium* (also known as *Eohippus*), dating back to the Eocene epoch. It was a small, dog-sized creature with multiple toes and a diet primarily of leaves.
2	How did the horse's size and anatomy change throughout its evolution in North America?	Over millions of years, horses gradually increased in size, developed longer legs, and lost toes, eventually evolving into the single-toed, larger animals we recognize today. This adaptation aided in faster running on open plains.
3	What environmental factors likely drove the evolution of horses in North America?	The shift from forested environments to more open grasslands created selective pressure for horses to become larger, faster, and better adapted to grazing on tougher vegetation.
4	Why did horses go extinct in North America and when did this occur?	Horses went extinct in North America around 10,000 years ago, likely due to a combination of climate change at the end of the last Ice Age and potential human hunting pressure.

5	When and how were horses reintroduced to North America?	Horses were reintroduced to North America by Spanish explorers in the late 15th and early 16th centuries. These descendants of the original North American horses eventually became the wild mustangs.
6	What is the scientific term for the study of horse evolution, and what kind of evidence do scientists use?	The study is a part of paleontology and evolutionary biology. Scientists use fossil evidence, including skeletal remains, to understand changes in anatomy and lineage.
7	Can you name one intermediate horse ancestor between *Eohippus* and the modern horse, and what was a notable change in its evolution?	*Meshippus* is a good example. It was larger than *Eohippus* and began to show a reduction in the number of toes, with a more specialized middle toe.

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